

The background of the entire page is a photograph of several hands of different skin tones reaching out towards the center. In the background, there is a large stained glass window depicting a bearded man in a yellow robe with his arms raised, surrounded by candles.

Benedictine University

Undergraduate Catalog
2013-2014

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ACCREDITATION AND MEMBERSHIPS

Benedictine University is accredited by The Higher Learning Commission - A Commission of the North Central Association of Colleges and Schools, the Commission of Collegiate Nursing Education, the Accreditation Council for Dietetic Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics, Illinois State Board of Education Teacher Certification Section and the Organizational Development Institute. The University's chemistry program is approved to grant American Chemical Society accredited degrees.

The University is a member of the American Council on Education, Council for Independent Colleges, Association of Governing Boards, National Association of Independent Colleges and Universities, Association of Catholic Colleges and Universities, National Catholic Education Association, Association of Benedictine Colleges and Universities, North Central Association, College Entrance Examination Board, National Association of College and University Business Officers, Federation of Independent Illinois Colleges and Universities, Associated Colleges of Illinois, Associated Colleges of the Chicago Area, Illinois Council on Continuing Higher Education, National Collegiate Athletic Association, Illinois Association of College Admissions Counselors, National Association of College Admissions Counselors, Association for Gerontology in Higher Education, and the Institute of International Education, Inc.

INSTITUTIONAL MISSION

Benedictine University dedicates itself to the education of undergraduate and graduate students from diverse ethnic, racial and religious backgrounds. As an academic community committed to liberal arts and professional education, distinguished and guided by its Roman Catholic tradition and Benedictine heritage, the University prepares its students for a lifetime as active, informed and responsible citizens and leaders in the world community.

INSTITUTIONAL VISION

Benedictine University is a Catholic University in the Benedictine Tradition that Provides a Values-Centered Liberal Arts Education Enriched by Our Excellence in Science.

UNIVERSITY CHARACTER

The Educational Program

The University fulfills its commitment to the liberal arts, teacher education and professional programs through excellence in teaching and interaction between students and faculty members. A liberal arts core prepares all undergraduate students to participate fully in a diverse and dynamic society, balancing their rights and duties as individuals with the demands of the common good. Professional education at the undergraduate, graduate and adult certificate levels builds on the liberal arts background of students, is multidisciplinary in nature, and prepares graduates for roles of leadership and social responsibility.

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The Catholic Tradition

The University is guided by the Roman Catholic tradition that fosters a dialogue between religious and secular cultures, while promoting ecumenical and multicultural understanding. This type of education is designed to broaden and deepen a person's vision of reality, to help all understand the dignity and uniqueness of each human person, and at the same time to place an emphasis upon the demands of freedom and social responsibility. In this environment religious faith and science are both directed toward the pursuit of truth and are strengthened through research and study. Central to the University's educational tradition is the rigorous investigation of questions that deal with the ultimate purpose of life.

The Benedictine Heritage

The University is grounded in the spirit of the founders who based their lives and work on St. Benedict's Rule for Monks, written in the early sixth century. The University builds its educational life and efforts on the same values which Benedictine men and women espouse:

- A search for God by oneself and with others
- A tradition of hospitality
- An appreciation for living and working in community
- A concern for the development of each person
- An emphasis on a life lived in balance
- A dedication to responsible stewardship of the earth
- A commitment to academic excellence

Central to the Benedictine tradition is the celebration of community as a gathering of people who share a commitment to a common mission. The University strives to develop an academic community that supports each person in the pursuit of knowledge and personal development. This undertaking will be achieved through a life enriched by the collegiate community in which the individual's interest is tempered by concern for the common good.

ACADEMIC REQUIREMENTS AND POLICIES

Rationale

The purpose of the following academic requirements, regulations and policies of Benedictine University is twofold:

1. To establish and secure an academic standard for all students that determines the value and quality of the associate and bachelor's degrees for all graduates; and
2. To protect both the student's and the University's interests by ensuring maximum accuracy in all academic records.

Advisors are provided to assist in planning students' academic programs. They are not authorized to change established policy of the University. The final responsibility for satisfying University and major requirements rests with the student.

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Core Curriculum

At Benedictine University, at the heart of the College of Liberal Arts is our institution's Core Program, and at the center of the Core Program is our Cultural Heritage Sequence. Students take a sequence of five historically oriented, primary-text based, reading and writing intensive, seminar-conducted courses. These Courses include: *Person in Community: Writing Colloquium* (WRIT 101), *Mediterranean World* (HUMN 220, The Origins of Humanity to approximately 350 C.E.), *Baptism of Europe* (HUMN 230, approximately 350-1500 C.E.), *Converging Hemispheres* (HUMN 240, approximately 1500-1850 C.E.), and *Contemporary World* (HUMN 250, approximately 1850 C.E. to the present).

The courses are a combination of standard selected world civilization materials, significantly enriched with culturally critical "Core Text" additions. The students are asked to internalize the basic chronology and geography of selected world history, in addition to reading and addressing a very significant sampling of the "Great Texts" associated with this development of the Catholic intellectual tradition. In addition, the Core Program deems a number of themes to be especially crucial to the understanding and heritage of this history. These include: the relationship of the individual person to his or her community; the contributions of religious faith and philosophical thought to the understanding of this person in community; the relationship of the individual to society; the history, methods and impact of the natural sciences on individual persons, their communities, their societies and their environment; and finally, the artistic and literary heritage of world civilization. The courses are staffed by Benedictine faculty across all disciplines and curricula.

One particular feature that makes the Benedictine University Liberal Arts Core Program distinctive is its reliance on the resources of the Catholic and Benedictine traditions, and the relationship of these traditions to the development both of human culture and civilization. An overall aim of the program is to offer students a particular vision of the individual in community, a vision which respects and promotes personal freedom and social harmony, while providing an understanding of the means necessary to secure both. The overall goal is to prepare students for a lifetime of continued learning, a holistic understanding of human knowledge, and active and responsible citizenship.

Goals

Through the Core Program and curriculum, students completing the program will/should accomplish all of the following learning goals:

1. Demonstrate an effective level of cognitive, communicative and research skills;
2. Achieve a college level of computational skills and an ability to understand and interpret numerical data;
3. Acquire a knowledge of the history and heritage of western civilization to include:
 - a. the contributions of religious faith and philosophical thought to understanding the individual in community;
 - b. the relationship of the individual to society: membership and participation in groups and institutions;
 - c. scientific literacy through a knowledge of the history, the methods and the impact of science on the individual, society and the environment;

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- d. artistic and literary heritage;
- 4. Develop an understanding of global society: cultural diversity, mutual relationships, interdependence of peoples and nations;
- 5. Apply liberal learning in problem solving contexts as preparation for active participation in society; and
- 6. Make informed ethical decisions that promote personal integrity, the legitimate rights and aspirations of individuals and groups, and the common good.

Degree Status

Degree status is the recognition accorded a student who is formally admitted through the admissions process described in the section, "Admission to Benedictine University." Any student who does not have degree status is designated a student-at-large. A student may receive only one bachelor's degree from Benedictine University but other majors for which requirements have been completed may be listed on the transcript.

Student-at-Large

A student-at-large (SAL) is either a full- or part-time student who does not have degree status and is ineligible for any financial assistance. The SAL is taking courses for his or her own enrichment and is not working toward a degree. Interested persons may contact the New Student Advising Center. All academic policies and institutional regulations apply to the SAL, except that the student is not identified with any class year. The SAL may later request admission to degree status through the formal admission process. Admission and acceptance of credits completed is subject to the discretionary approval of the University.

Courses taken as an SAL do not count toward the residency requirement if the SAL is later admitted to degree status. SAL credit may fulfill other graduation requirements, with the approval of the program chair. Regardless of status, all courses taken for credit will become part of the student's official record at Benedictine University. The graduation requirements a student must meet are those in effect at the time of admission to degree status, which may be different from those in effect during the SAL period. SAL status is not available to students denied regular admission to Benedictine, those who have recently been dropped by the University for poor scholarship, or those who have been dismissed from the last institution of attendance within the previous 12 months.

Future Scholars Program

As "Future Scholars," superior high school students may take regular University courses, prior to their graduation from high school, and receive a special scholarship. Courses are available during the regular school year and the summer session. Credits earned will be posted on a Benedictine University transcript and will apply toward a degree at Benedictine or may be transferred to another college. Students will normally be limited to one course per semester and must maintain a "C" average to have the scholarship renewed.

Second Baccalaureate Degree Program

This program is designed for persons who already have a bachelor's degree in one area and would like to gain expertise in another. Students with a Benedictine University degree will not be eligible for this program.

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Students interested in this program must apply for admission to the University and submit official transcripts from all colleges and universities in which they were previously enrolled. Students must complete all coursework on the second degree within seven years of admission to the program. Students must be enrolled in at least one course per term. Life experience credit, transfer and College Level Examination Program (CLEP) exam credit may be counted toward the program requirements, if appropriate, as determined by each department. However, at least 12 hours of 200-/300-level classroom courses must be completed at Benedictine University. Applicability of courses taken as a student-at-large prior to admission to the Second Baccalaureate Degree Program will be determined upon initial evaluation.

Dual Credit Policy

Benedictine University will articulate, with limitations, coursework completed in a dual credit or dual enrollment program while enrolled in high school if the course is transcribed as college level on a college transcript and meets the criteria set by the Transfer Credit Policy. Coursework with a potential to count towards basic skills or major requirements is subject to review by the appropriate department chair/program director and might not be considered transferable. Coursework completed in this manner and deemed transferable will be posted on the transcript indicating completion prior to high school graduation.

Summer Sessions

These sessions are offered to current Benedictine students and visiting students. The University offers a broad range of courses during the summer sessions. Interested students should contact the Student Success Center.

MAJORS AND DEGREES

Students may earn the following degrees by choosing a major program (see below).

The University offers professional programs approved by the state of Illinois in teacher education in the following areas: biology, business/marketing/management, chemistry, elementary education, English, mathematics, physics, social science, Spanish and special education.

In addition, pre-professional education is available in dentistry, engineering, law, medicine, occupational therapy, optometry, pharmacy, physical therapy, podiatry and veterinary medicine.

Associate of Arts:

Business Administration +^

Bachelor of Arts:

Bilingual Journalism
Biology
Clinical Life Science
Communication Arts+
Criminal Justice+
Economics
Elementary Education+
Engineering Science
English Language and Literature
Exercise and Sports Studies
Graphic Arts and Design
Global Studies
History+
International Business and Economics
International Studies
Management +^
Medical Humanities
Music
Music Education
Organizational Leadership^
Philosophy
Physical Education
Political Science
Psychology*+
Social Science
Sociology+
Spanish
Special Education
Studio Art
Theology+
Writing and Publishing+

Bachelor of Business Administration:

Accounting*
Business Analytics
Business and Economics+
Business with Science Applications
Finance*+
Management and Organizational Behavior+
Marketing+

Bachelor of Fine Arts:

Fine Arts

Bachelor of Science:

Biochemistry/Molecular Biology
Biology+
Chemistry
Clinical Laboratory Science
Computer Information Systems
Computer Science
Diagnostic Medical Sonography
Environmental Science
Health Science+
Mathematics
Nuclear Medicine Technology
Nutrition
Physics
Radiation Therapy

Bachelor of Science in Nursing:

Nursing (RNs only)+^

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* Offered in traditional undergraduate and adult accelerated undergraduate formats

^ Offered only in the adult accelerated format

+ Also offered on the Springfield branch campus

GRADUATION REQUIREMENTS

Associate of Arts Degree

1. Liberal arts core requirements:

a. Skills requirements:

Unless a student can demonstrate proficiency, he/she must complete 12 credit hours in Basic Skills. A student must receive a "C" or better in each of these courses to meet this requirement. The Basic Skills courses and the ordinary methods of demonstrating proficiency are as follows:

- i. Person in Community: Writing Colloquium: WRIT 101; Research Writing: WRIT 102; or by passing HNRS 190 and HNRS 191. If WRIT 101 is satisfied by AP Credit, credit in WRIT 104 is required.
- ii. Speech Communication: SPCH 110
Proficiency: by passing HNRS 191 or proficiency by examination.
- iii. Quantitative Skills: MATH 104
Proficiency: by earning CLEP credit in College Algebra; by passing MATH 105, 108, 110, 111, 115, 170, or any 200- or 300-level math course.

b. Cultural Heritage Series: 3 credit hours

HUMN 220: The Mediterranean World. Studies the ancient cultures located around the Mediterranean Sea and the contributions they made to the development of western civilizations to about 500 A.D. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" as reflected in religion, art, philosophy, and social, political, and economic institutions.

c. Core Electives:

Arts and Humanities: 9 credit hours

At least three arts and humanities courses (from at least two different areas designated as Arts and Humanities Core Electives in this catalog) including PHIL 245.

Natural Sciences: 6 credit hours

At least 3 credit hours must be taken in the Physical Sciences Core (as designated in this catalog) and at least 3 credit hours from in the Life Sciences Core (as designated in this catalog).

Social Sciences: 9 credit hours

At least three social sciences courses (from at least two different disciplines designated as Social Science Core Electives in this catalog), including ECON 101 (with a grade of "C" or better) and PSYC 100.

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2. A student must earn 63 credit hours to qualify for graduation and must maintain a "C" average (2.000) in all Benedictine University coursework.
 - Courses with a number below 100 do not count toward the 63 credit hours required for graduation.
 - University-level courses completed to fulfill a condition of admission count toward the 63 hour graduation requirement, but do not satisfy University Core requirements.
3. At least 45 of the 63 credit hours for graduation must be completed at Benedictine University. The following courses must be completed at Benedictine University: MATH 104 (unless proficiency is demonstrated by 1.a.iii. above), HUMN 220, MGT 110, and MGT 220. Once a student matriculates into the program, no additional transfer credit will be accepted. Courses completed at Benedictine prior to formal admission to degree status may not be used to fulfill this academic residency requirement. Such credit may fulfill other graduation requirements with the approval of the department chair/program director/associate dean and dean.
4. A maximum of 15 credit hours earned through any one or combination of external credit programs may be applied with the approval of the University toward the 63 credit hours required for the associate degree. These credits will not normally satisfy the academic residency requirement. Applications may be obtained in Enrollment Services (Ben Central) or the Office of the Registrar.
 - a. The Advanced Placement Program — Educational Testing Service (ETS) tests are offered to high school sophomores, juniors or seniors once a year and the scores are sent to Benedictine. Students who score three, four or five are given credit in the appropriate course area.
 - b. CLEP Tests —The College Level Examination Program (CLEP) gives students the opportunity to show that they have the knowledge necessary to gain course credit without actually taking the course. CLEP credits are not acceptable as transfer credits from other institutions, but evidence of CLEP scores will be evaluated for credit toward the Benedictine University degree. The applicant must submit an official copy of the grade report sent by ETS. CLEP tests should be taken in the freshman or sophomore year. Students may not receive CLEP credit in a subject area in which they have completed course work. CLEP credit in major courses must be approved in advance by the department chair.
 - c. Work/Life Experience Credit — Work/Life experience credit represents attainment through work or other non-academic experiences, of the same degree of competence in a subject (of at least a "C" level) that University undergraduates obtain in the classroom. Application for life experience credit must be for a course specifically described in the University Catalog.
 - d. Other External Credit — Benedictine University allows students to apply, toward the 63 credit hours required for the associate degree, acceptable hours which have been earned through military experience and/or courses.

5. A major field of study requires at least 27 credit hours, with at least 6 credit hours at the 200 level or above. Only courses in which a student has received a "C" or better may be applied to the major requirement.
6. Waivers of University or program requirements may be made for sound cause acceptable to the University when extenuating circumstances arise. Three graduation requirements which are never waived are the 63 credit hour minimum, the minimum grade point average of 2.000, and the minimum 45 credit hour residency. The student begins a request for a waiver by seeking the approval of his/her academic advisor. The number of additional approvals depends on the nature of the waiver.
7. A student must earn the recommendation of the faculty of his or her major program for graduation. Normally this recommendation is based upon fulfilling the program requirements, including a comprehensive examination or other integrating experience.
8. One must be in good standing and have settled all financial accounts with the University to qualify for graduation.

Bachelor's Degrees

1. Liberal arts core requirements:
 - a. Skills requirements:

Unless a student can demonstrate proficiency, he/she must complete 12 credit hours in Basic Skills. A student must receive a "C" or better in each of these courses to meet this requirement. The Basic Skills courses and the ordinary methods of demonstrating proficiency are as follows:

 - i. Person in Community: Writing Colloquium: WRIT 101; Research Writing: WRIT 102; or by passing HNRS 190 and HNRS 191. If WRIT S101 is satisfied by AP Credit, credit in WRIT 104 is required.
 - ii. Speech Communication: SPCH 110
Proficiency: by passing HNRS 191 or proficiency by examination.
 - iii. Quantitative Skills: MATH 105, 108 or 110
Proficiency: by earning CLEP credit in College Algebra; by demonstrating proficiency in MATH S105, S108 or S110 on the Math Proficiency Test; by passing MATH 111, 115, 170, or any 200- or 300-level math course.
 - b. Cultural Heritage Series: 12 credit hours
This interdisciplinary series consists of four courses covering successive periods in history:
HUMN 220: The Mediterranean World
HUMN 230: The Baptism of Europe
HUMN 240: Converging Hemispheres
HUMN 250: The Contemporary World [Required of all students]

The courses highlight the origins and development of western civilization, including both the way other cultures have influenced the West and how they have been impacted by it. Drawing upon the resources of the Catholic and Benedictine traditions, the overall approach is historical, with various components of human thought and expression emphasized throughout the series, including religion, philosophy, art, music, literature, social institutions and approach to nature. Because they are organized in chronological sequence, the courses should be

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taken in order.

The Cultural Heritage courses are described in this Catalog under the HUMN course descriptions. Courses required to meet state or national accreditation requirements may supersede institutional policies as approved by the Registrar.

c. Core Electives:

Arts and Humanities: 12 credit hours

3 credit hours in Fine Arts/Music

3 credit hours in Literature/Foreign Language Literature

3 credit hours in Philosophy

3 credit hours in Religious Studies/Theology

Core elective courses are so designated in this catalog.

Natural Sciences: 9 credit hours

At least 3 credit hours must be taken from the specified courses in Physical Sciences and at least 3 credit hours from the specified courses in Life Sciences.

Core elective courses so designated in this catalog.

Social Sciences: 9 credit hours

3 credit hours in Psychology or Sociology

3 credit hours in Economics or Business

3 credit hours in either Anthropology or Political Science.

Core elective courses are so designated in this catalog.

Courses required to meet state or national accreditation requirements may supersede institutional policies as approved by the Registrar.

Note: Transfer, Degree Completion and Adult Program students see below for exceptions to the above requirements.

d. Writing Intensive (WI) Courses:

WI courses are designed to emphasize writing process and writing instruction in classes distributed throughout a student's time at Benedictine University. As part of Writing Across the Curriculum (WAC), students will take the following two WI courses:

i. HUMN 250: The Contemporary World – WI

ii. WI course in the major

Transfer students who have completed all of their Core electives or who have already taken the course in their major that is designated WI may be exempted from the WI course in their major.

2. A student must earn 120 credit hours to qualify for graduation and must maintain a "C" average (2.000) in all Benedictine University coursework.

- Courses with a number below 100 do not count toward the 120 credit hours required for graduation.

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- University-level courses completed to fulfill a condition of admission count toward the 120 hour graduation requirement, but do not satisfy University Core requirements.
3. Majors and minors:
- a. A student must select a major field of study before completing 60 credit hours, and must complete the requirements set forth in the Catalog under the heading for the selected major. Only courses in which a student has received a "C" or better may be applied to the major requirement.
 - b. A major field of study requires at least 36 credit hours, of which a minimum of 24 credit hours must be completed at the 200 level or above, of which at least nine credit hours must be at the 300 level or above.
 - c. Students are encouraged to supplement their major and core programs with appropriate minors. The minor can be used to round out a program of study by complementing the required major. For example, a student who selects a major in a technical or professional area might select a minor in the liberal arts to gain additional analytical and communication skills and vice versa.
 - d. A minor consists of at least 21 and no more than 30 credit hours of courses completed from the specified list for the minor program. At least 12 credit hours at the 200 level or above, including at least three credit hours at Benedictine at the 300 level, must also be completed. Only courses in which a student has received a grade of "C" or better may be applied to the minor. Any credit hours completed for a minor may be used to fulfill core or major requirements. Successfully completed minors are designated on the transcript following graduation.
 - e. A concentration is a grouping of courses within a student's major. This grouping consists of at least 12 semester hours of required or recommended courses designed to focus on a particular aspect of a major, and/or to focus on a particular career opportunity for graduates of that major.
4. At least 55 of the 120 credit hours for graduation must be completed at a four-year regionally accredited college (of which 45 credit hours must be completed at Benedictine University) and at least 30 of the final 45 credit hours must be completed at Benedictine University, including at least 12 credit hours at the 200 level or above in the major. Courses completed at Benedictine prior to formal admission to degree status may not be used to fulfill this academic residency requirement. Such credit may fulfill other graduation requirements with the approval of the department and division chairpersons.
- Note: Students who qualify for the Degree Completion Program and the Adult Program are exempted from the 45 credit hour academic residency requirement. See Degree Completion Program.*
5. A maximum of 30 credit hours earned through any one or combination of external credit programs may be applied with the approval of the University toward the 120 credit hours required for the bachelor's degree. These credits will not normally satisfy the academic residency requirement. Applications may be obtained in Enrollment Services (Ben Central) or the Office of the Registrar.

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- a. The Advanced Placement Program — Educational Testing Service (ETS) tests are offered to high school sophomores, juniors or seniors once a year and the scores are sent to Benedictine. Students who score three, four or five are given credit in the appropriate course area.
 - b. CLEP Tests — The College Level Examination Program (CLEP) gives students the opportunity to show that they have the knowledge necessary to gain course credit without actually taking the course. CLEP credits are not acceptable as transfer credits from other institutions, but evidence of CLEP scores will be evaluated for credit toward the Benedictine University degree. The applicant must submit an official copy of the grade report sent by ETS. CLEP tests should be taken in the freshman or sophomore year. Students may not receive CLEP credit in a subject area in which they have completed course work. CLEP credit in major courses must be approved in advance by the department chair.
 - c. Work/Life Experience Credit — Work/Life experience credit represents attainment through work or other non-academic experiences, of the same degree of competence in a subject (of at least a "C" level) that University undergraduates obtain in the classroom. Application for life experience credit must be for a course specifically described in the University Catalog.
 - d. ACT Proficiency Examination Program (PEP) Test — At Benedictine, PEP allows Bachelor of Science in Nursing students to be examined in the three nursing areas of Maternal and Child Nursing, Psychiatric/Mental Health Nursing, and Adult Nursing. Successful completion of all tests results in 24 credit hours. These 24 hours are not considered external credit and therefore do not count toward the 30 credit hour limit.
 - e. Other External Credit — Benedictine University allows students to apply, toward the 120 credit hours required for the bachelor's degree, acceptable hours which have been earned through military experience and/or courses.
6. A student may apply internship credit towards graduation credit as follows: Humanities, 12 hours; Business Programs, 12 hours; International Business and Economics, 12 hours; Political Science, 12 hours; Health Care, 3 hours; Nutrition, 12 hours; Sociology/Psychology, 6 hours; Computer Information Systems, 12 hours; Computer Science, 12 hours; Mathematics, 12 hours; Biology, 12 hours.
 7. Waivers of University or program requirements may be made for sound cause acceptable to the University when extenuating circumstances arise. Three graduation requirements which are never waived are the 120 credit hour minimum, the minimum grade point average of 2.000, and the minimum credit hour residency. The student begins a request for a waiver by seeking the approval of his/her academic advisor. The number of additional approvals depends on the nature of the waiver.
 8. A student must earn the recommendation of the faculty of his or her major program for graduation. Normally this recommendation is based upon fulfilling the program requirements, including a comprehensive examination or other integrating experience.
 9. One must be in good standing and have settled all financial accounts with the University to qualify for graduation.

TRANSFER STUDENTS

Credits Transferred from Other Institutions

Credits to be transferred from other institutions are evaluated on the basis of their equivalent at Benedictine University. This determination is made by the Transfer Credit Evaluation and Articulation staff and, if needed, the appropriate department chair or program. Transfer grades are not counted in the cumulative grade point average earned at Benedictine University.

Quarter credit hours transferring from other institutions are converted to semester credit hours:

- 5 quarter hours = 3.33 semester hours
- 4 quarter hours = 2.67 semester hours
- 3 quarter hours = 2 semester hours
- 2 quarter hours = 1.33 semester hours
- 1 quarter hour = 0.67 semester hours

Transfer Credit Policy/Practice

Benedictine University accepts course credit in transfer from regionally accredited colleges and universities, if the courses are deemed to be comparable in scope and level of difficulty to courses offered at Benedictine University. Other transfer courses that are commonly regarded as a study in the liberal arts are evaluated on an individual basis.

Credit identified as developmental or pre-college in level of study may be used as a basis for placement and advising purposes but will not be accepted in transfer.

To be accepted in the major or minor area, or in Basic Skills, courses must have a grade of "C" or better. A grade of D or better is required in all other areas, except where program requirements specify otherwise. Grades earned at other schools are used to determine transferability of credit, but are not included in the Benedictine University cumulative grade point average. Students cannot earn duplicate credit for repeated courses.

Acceptance of transfer credit to be applied to the major area or minor area is determined by the appropriate academic department chair or program director. Requirements designated mission-specific or institutionally unique must be taken at Benedictine University. Courses taken prior to specific dates may be unacceptable as transfer credit because of substantial subsequent developments.

Benedictine University is a participant in the Illinois Articulation Initiative (IAI), a statewide agreement that allows transfer of completed Illinois transferable General Education Core Curriculum courses, and selected major courses, between participating institutions.

Credit for non-traditional experiences, including military education, will be considered based upon American Council on Education recommendations.

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Credit from international institutions must be evaluated by Educational Perspectives, Chicago, IL or Educational Credential Evaluators, Inc., Milwaukee, WI, before submitting to Benedictine University for review. Credit is subject to Benedictine University's transfer credit evaluation criteria.

Liberal Arts Core Requirements for Transfer Students:

1. Transfer students with more than 20 transferable hours:
WRIT S101, S102; SPCH S110 or equivalent, or proficiency; MATH S105 or S108, or S110 or proficiency [a student must receive a "C" or better in each course to meet the requirement]; three natural science courses with at least one from life sciences and one from physical sciences, for a total of at least nine semester hours; four arts and humanities courses for a total of at least 12 semester hours with at least one but no more than two from Fine Arts/Music, and at least one but no more than two from Literature/Foreign Language and Literature, Philosophy, Religion/Theology, the remaining two courses are to be chosen from Communication, Fine Arts, Music, Foreign Language, History, Literature, Philosophy, Religion/Theology; three courses from the social sciences from at least two different disciplines. Equivalent transfer courses, if taken prior to admission, may meet these requirements. Any course taken to fulfill these requirements after admission to Benedictine must be a core elective course as so designated in this catalog. (No further restrictions apply to the above courses.) Two of the Cultural Heritage courses must be taken at Benedictine University, of which one must be HUMN 250: The Contemporary World.
2. Transfer students who have completed all of their Core electives or who have already taken the course in their major that is designated WI may be exempt from the WI course in their major.
3. Transfer Students with 20 or fewer transferable hours or the equivalent of less than one full semester of transferable work will be responsible for taking or transferring all of the courses described in the Benedictine University Core Curriculum. The Cultural Heritage courses must be taken at Benedictine.

DEGREE COMPLETION, ADULT ACCELERATED UNDERGRADUATE, SECOND MAJOR AND CERTIFICATE PROGRAMS

Degree Completion Program

The University provides an exception to the normal academic residency requirement of 45 semester hours for students who are eligible for the Degree Completion Program (DCP).

A minimum of 15 of the 75-plus transferable semester hours required for DCP status must be from a four-year regionally accredited college or university earned prior to the start of Benedictine University coursework. The determination of DCP status is made prior to entry. Credit earned later will not be used to reclassify a student to DCP status.

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Degree Completion Program students must:

1. Satisfy general entrance requirements;
2. Complete at least the last 30 credit hours of their undergraduate degree through coursework at Benedictine University as a degree-seeking status student; and
3. Complete at least 12 credit hours of coursework at the 200 level or above in their major field at Benedictine University.

Degree Completion Program students may receive credit and/or waiver of course requirements through examination and experiential learning assessment, but these credits will not normally be part of the final 30 credit hours.

Liberal Arts Core Requirements for Degree Completion Program Students

1. Successful completion of the skills courses WRIT S101, S102; SPCH S110 and MATH S105, S108, or S110. A student must receive a grade of "C" or better in each course to meet this requirement.
2. Successful completion of two natural science courses (at least six semester hours from at least two of the areas of math/computer science, physical sciences and life sciences); three arts and humanities courses (from at least two of the areas of communications, literature, foreign languages, fine arts, history, philosophy and religious studies); three courses from the social sciences (from at least two of the areas of business, economics, anthropology, political science, psychology and sociology). Any course taken to fulfill these requirements after admission to Benedictine must be a Core elective course as so designated in this catalog.
3. Cultural Heritage Courses: Successful completion of the HUMN 250: The Contemporary World course, to be taken at Benedictine University.

Adult Accelerated Undergraduate Program

The University provides an exception to the normal academic residency requirement of 45 semester hours for students who are enrolled in the Adult Accelerated Undergraduate Program.

Adult Accelerated Undergraduate Program students must:

1. Satisfy general entrance requirements;
2. Complete at least the last 30 credit hours of their undergraduate degree through coursework at Benedictine University as a degree seeking student; and
3. Complete at least 12 credit hours of coursework at the 200 level or above in their major field at Benedictine University.

Adult Program students may receive credit and/or waiver of course requirements through examination and experiential learning assessment, but these credits will not normally be part of the final 30 credit hours.

Liberal Arts Core Requirements for Adult Accelerated Program Students

1. Successful completion of the skills courses WRIT S101, S102; SPCH S110; and MATH S105, S108, or S110. A student must receive a grade of "C" or better in each course to meet this requirement.
2. Successful completion of two natural science courses (at least six semester hours from at least two of the areas of math/computer science, physical sciences and life sciences); three arts and humanities courses (from at least two of the areas of communications, literature, foreign languages, fine arts, history, philosophy and religious studies); three courses from the social sciences (from at least two of the areas of business, economics, anthropology, political science, psychology and sociology). Any course taken to fulfill these requirements after admission to Benedictine must be a Core elective course as so designated in this catalog.
3. Successful completion of two Cultural Heritage courses to be taken at Benedictine University, one of which must be HUMN 250: The Contemporary World.

Second Major Program

This program is designed for people who already have a baccalaureate degree in one area and would like to gain expertise in another. The primary benefit of this program is that the focus is on the requirements of the major, allowing students to concentrate on courses that will be most beneficial. The entrance requirement is a bachelor's degree from an accredited four-year university. Please note that financial aid is not available to students who are completing a second major. A certificate will be awarded upon completion. For those who have earned a degree from Benedictine University, some stipulations may apply.

Second Major Program students must:

1. Submit an application and official transcript indicating completion of a bachelor's degree from an accredited four year college, in a major different from the new one being sought;
2. Select one of the University's major programs and complete all requirements for that major (all major coursework must be completed with a grade of "C" or better) as listed in the Catalog which is in effect at the time of admission to the program. (If a student enters the program the first semester after graduation from Benedictine University, then the requirements in effect will be those in the Catalog of the original term of entry);
3. Enroll for at least one course in the major each semester, or have a valid Leave of Absence form on file; and
4. Complete all work on the Second Major within seven years of admission to the program.

Life experience credit, transfer and CLEP exam credit may be counted toward the program requirements, if appropriate, as determined by each department. However, at least 12 hours of 200-/300-level classroom courses must be completed at Benedictine University.

Applicability of courses taken as a student-at-large prior to admission to the Second Major Program will be determined upon initial evaluation.

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Courses taken in the Second Major Program are applicable to a second bachelor's degree for graduates of other colleges. Those courses will also be counted toward the second degree's residency requirement.

Upon completion of required coursework of the program, a notation on the transcript will be made that all requirements for a second major have been met.

Institutional Requirements for Pre-Baccalaureate Certificate

A certificate consists of at least 12 semester credit hours of designated coursework completed at Benedictine University. Additional requirements may exist at the discretion of the hosting department or program. Only courses in which a student has received a grade of "C" or better may be applied to a certificate. Any credit completed for a certificate may be applied to fulfill core, major or minor requirements.

GENERAL POLICIES

Semester Credit Hours

The academic year is divided into two semesters from August through December and January through May.

Courses taught in the standard delivery method

One semester credit hour is counted for each clock hour of class or lecture time – or each two or three clock hours of Laboratory or studio work – per week during the semester. A three semester credit hour lecture course, for example, meets three hours per week over 15 weeks.

Courses taught in the accelerated delivery, online/blended delivery or other non-standard format.

One semester credit hour consists of not less than 38 hours of instruction, individual learning activities (such as pre-course assignments, course assignments, preparation time), and team-based collaborative learning activities. Completion of graded outcomes that measure student achievement of learning objectives are comparable to those achieved via the standard delivery method.

Student Classification

The classification of students is determined at the beginning of each semester according to the number of credit hours completed, as follows:

Freshmen: Less than 30 credit hours

Sophomores: 30 to 59.99 credit hours

Juniors: 60 to 89.99 credit hours

Seniors: 90 or more credit hours

Since students progress toward the completion of degree requirements at different rates, the classification will not necessarily coincide with a student's class year.

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Course Loads

A full-time student is registered for a minimum of 12 credit hours. The normal course load is 15 credit hours per semester. No student may register for more than 18 hours of credit per semester without the permission of the faculty advisor, as follows:

Part-time academic status: 1-11.99 credit hours

Full-time academic status: 12-18 credit hours

Full-time academic status + Overload: 18.01 or greater credit hours (additional tuition fee is assessed)

IMPORTANT NOTE: Above are Benedictine University policies for academic status. The Office of Financial Aid may use different status levels based on specific financial aid policies.

Advising

At Benedictine University academic advising is grounded in Benedictine values and the University mission. It is an interactive process between the advisor and student and is supported by technology. The goal is to promote each student's academic, career and personal development.

Faculty and staff are committed to creating a decision-making framework through which students can identify and realize their educational goals. Although academic advising is a collaborative function of both student and advisor, the final responsibility for satisfying University and major requirements rests with the student.

The student actively participates in the educational decision-making process.

Students will:

- Become knowledgeable of all the University's academic requirements, policies and procedures
- Develop and maintain a plan for a course of study
- Keep an accurate record of academic activities and documents
- Value the role of the advisor by preparing for and keeping advising appointments
- Initiate and maintain open and honest communication with the advisor
- Access additional University resources to facilitate the decision making process

The advisor listens to and guides the student through the educational decision making process.

Advisors will:

- Foster the student's sense of responsibility for his/her academic progress
- Help the student obtain accurate information about educational and career options, academic requirements, policies and procedures
- Help the student plan and monitor an educational program consistent with individual interests and abilities
- Assist the student in maintaining an accurate record of course registrations and completions

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- Be available on a scheduled basis for academic consultation and advice
- Refer the student to appropriate University resources

Approval to withdraw from a course or to change registration in any way can be processed by Enrollment Services (Ben Central) or through BenUConnect. Not attending class does not constitute a legitimate withdrawal. A student may withdraw from a course before completion of four-fifths of the course by filing the proper form with Enrollment Services (Ben Central) or by using BenUConnect. For reasons of a compelling personal nature, a student may request a course withdrawal after the completion of four-fifths of the course. A written statement from the student, including supporting documentation, must be submitted to the Associate Registrar to justify this late course withdrawal.

Repetition of Courses

For courses taken at Benedictine University, undergraduate students, both degree seeking and students-at-large, may repeat a course in which they received grades of "W," "D" or "F" no more than two times. Students may not repeat any course in which they receive a grade of "C" or better. When a course is repeated for credit, the earlier earned grade remains on the student's permanent record and will appear on all transcripts. Only the last enrollment and earned grade will be used in computing the cumulative grade point average and awarding of credit. If a student wishes to repeat a course originally taken at Benedictine University and in which an earned grade was received, the repeat must be a course at Benedictine University. A repeat may not be by independent study or by study at another institution. The Academic Standing Committee may provide exceptions to this policy. An earned grade is a grade of "A," "B," "C," "D" and "F."

Students who have graduated may not repeat a course for credit in which they earned a grade of "A," "B," "C" or "D" previously. A student who has graduated may only audit a course in which they previously earned credit.

Grades and Reports

The student's final grade is determined by the instructor. The system of grading is as follows (quality points are in parenthesis):

A — Excellent (4.000)	W — Withdrawal*
B — Good (3.000)	P — Pass*
C — Satisfactory (2.000)	X — Deferred*
D — Passing (1.000)	IP — In Progress*
F — Failure (0.000)	AUD — Audit*
I — Incomplete*	

**Note: The grades are not calculated in academic GPA.*

Academic grade reports for all students are available upon completion of each course through [MyBenU](#). A change of grade is permitted only for clerical errors. Grade appeals must be initiated before the end of one semester after the course in question has been completed. The final grade is recorded on the permanent record.

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A course is considered to be successfully completed if a grade of "A," "B" or "C" is achieved. The grade point average used for all purposes at Benedictine University, including graduation honors, the Dean's List and the Dean's Recognition List is based only upon courses taken at Benedictine University.

A grade of "I" may be requested by a student for a course in which he or she is doing satisfactory work, but, for illness or other circumstances beyond the student's control as determined by the instructor, the required work cannot be completed by the end of the semester. To qualify for the grade, a student must have satisfactory academic standing, be doing at least "C" work in the class, and submit a written request with a plan for completion approved by the instructor stating the reason for the delay in completing the work. Arrangements for this "I" grade must be made prior to the final examination. One may not receive an "Incomplete" in a semester in which he or she is already on academic probation.

An "I" is a temporary grade. Failure to complete the course work and obtain a final grade within 180 days from the end of the term in which the "I" was received will result in the "I" automatically becoming an "F" grade.

A grade of "W" is recorded to indicate that a student has withdrawn from a course. The student may continue to attend the class (without credit) to the end of the term, except for labs, with the instructor's approval.

A grade of "IP" is recorded to indicate that the course is in progress when the term in which the course has been scheduled ends. The "IP" grade will be replaced when the course ends and the permanent grade is earned.

The **Audit (AUD) grade designation** indicates that a student has registered for a course and was eligible to attend class sessions. Auditing a course does not necessarily reflect participation, nor does it indicate anything regarding completion of assignments. Auditors are entitled to participate in class activities to the extent the instructor permits.

Audit registration requires the approval of the instructor. **A student may not change from credit to audit or audit to credit after the end of the add/drop period.** If a course has stated enrollment limits, students taking the course for credit will be enrolled before students auditing the course. Lab courses may not be taken as an audit.

When an Audit (AUD) grade designation is posted on the transcript, it cannot be changed to a letter grade. Audited courses are not available for later credit or proficiency by examination.

Add/Drop Policy

For traditional program courses, students have until the end of the first week of classes to add or drop a course. After that point, a student can withdraw with a grade of "W" from a class up to the end of the 12th week of classes for a 15-week course (or the end of the seventh week for an 8-week class).

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For fully online courses, a student has until Thursday (at 11:59 p.m.) of the first week of the class to add or drop a course.

For adult program courses, a student has until the day before the second class meeting to add or drop a course. After that period, a student can withdraw, with a grade of "W," up to the 80 percent point of the course. Please refer to the course syllabus for details.

Grade Appeal Policy

The purpose of the Grade Appeal Policy is to establish a consistent procedure by which students may seek review of final grades assigned in courses at Benedictine University. Grades other than final course grades may not be appealed. The policy recognizes the right and responsibility of faculty members to exercise their professional judgment in evaluating academic performance and the right of students to have their academic performance judged in a fair and impartial manner.

Grade Appeal Process

First, discuss the incident with the faculty member; bring forward any facts or circumstances that might be pertinent to the faculty member's evaluation and decision.

If not satisfied with the outcome, either the student or the faculty member may seek consultation with the Department Chair/Program Director, College Dean, and finally the Vice President for Academic Affairs, in that order.

Grounds for Appeal

A student may appeal a final course grade only on the grounds that:

1. The grade was assigned based on a miscalculation or clerical error;
2. The grading standards for the course were not clearly articulated by the instructor in the syllabus, or the grade was assigned in a manner inconsistent with articulated standards.

At all levels of review, the burden of demonstrating that a grade should be changed rests with the student. The deadline for submission of any grade appeal is the end of the semester following the term in which the grade was originally received.

Academic Accommodation for Religious Observance

A student whose religious obligation conflicts with a course requirement may request an academic accommodation from the instructor. Students must make such requests in writing by the end of the first week of the class. Upon receiving such a request, the instructor will offer reasonable academic accommodations, whenever feasible, and communicate this to the student. However, the course requirements listed in the syllabus remain in effect if accommodations cannot be offered.

Academic Honesty Policy

The search for truth and the dissemination of knowledge are the central missions of a university. Benedictine University pursues these missions in an environment guided by our Roman Catholic tradition and our Benedictine heritage. Integrity and honesty are therefore

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expected of all University students. Actions such as cheating, plagiarism, collusion, fabrication, forgery, falsification, destruction, multiple submission, solicitation and misrepresentation are violations of these expectations and constitute unacceptable behavior in the University community.

To access the complete Academic Honesty Policy, which includes student responsibility, responsibility and authority of faculty, violations, reporting and communicating, responsibilities of the provost, appeals, composition of the academic appeals board, procedures of the academic appeals board, and records, please visit www.ben.edu/ahp.

Administrative Drop Policy

Drop for Non-Attendance: Undergraduate students may be dropped from a class for non-attendance by a departmental administrative drop by the end of the first week of the class.

The primary intent of the Administrative Drop Policy is to ensure full enrollment in classes in which demand for seats exceeds supply. The purpose is to free seats held by non-attending students in such classes so that students who wish to take the class may be able to do so.

Classes in the Moser College for Adult and Professional Studies are not impacted by the Administrative Drop Policy.

Quality Point System

Final grades in each course are converted to quality points according to the following schedule: A grade of "A" in a course is converted to four quality points for each credit hour (thus in a three credit hour course, an "A" is worth 12 quality points); a grade of "B" is worth three quality points per credit hour; a grade of "C" is worth two quality points per credit hour; a grade of "D" is worth one quality point per credit hour; other grades receive no quality points. The quality point or grade point average is computed by dividing the total number of quality points earned, at Benedictine University, by the total number of credit hours attempted, at Benedictine University.

Dean's List and Dean's Recognition List

The Dean's List is computed and published once each semester. To qualify, a student must be enrolled full-time and must have at least a 3.500 semester average with a grade of at least "C" in each course and must not have received any "I" or "X" grades.

The Dean's Recognition List is also computed and published once each semester. To qualify, a student must be enrolled for a minimum of three semester hours and must have at least a 3.500 semester average with a grade of at least "C" in each course and must not have received any "I" or "X" grades.

Note: The Dean's Recognition List is intended for students who are not enrolled full time.

Student Academic Standing

Satisfactory academic standing for all students is a 2.000 cumulative grade point average (GPA) as determined at the end of each semester (or other designated grading period).

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Students who do not achieve satisfactory academic standing will be placed on academic probation or dismissed for poor scholarship.

Probation and Dismissal

Students are required to maintain satisfactory academic standing during their University careers. If a student fails to achieve satisfactory academic standing at the end of a semester (a cumulative GPA of 2.000), that student will either be placed on academic probation during the following semester (if the term GPA was at least 1.000), or will be dismissed for poor scholarship (if the term GPA was below 1.000). If a student fails to achieve satisfactory academic standing at the end of the probationary period, the student is dismissed from enrollment because of poor scholarship.

Any student dismissed for poor scholarship may submit an appeal to the Committee on Academic Standing seeking a one semester reinstatement. Criteria that the Committee on Academic Standing will consider include:

- Current semester grade point average (GPA)
- Cumulative GPA
- Likelihood that the student is capable of achieving “satisfactory academic standing” before graduation
- Recommendation from the Associate Vice President for Student Life
- Student’s explanation for prior GPA and plan to remedy the situation

In the event that the Committee on Academic Standing is unable to approve the appeal for extension of the probationary period, the student’s enrollment will be terminated for poor scholarship. Such a student may be readmitted at a later time for enrollment, provided evidence is presented which in the judgment of the University indicates that there is improved potential for academic success. The period of dismissal will be for a minimum of two academic semesters. Academic semesters are fall or spring semesters and do not include summer school or interim sessions.

All probation and dismissal policies apply in the same way to part-time and full-time students.

Academic Amnesty Policy

Students who have left the University with a cumulative GPA less than 2.000 may have the option to reenter under the academic amnesty policy. The conditions for readmission under amnesty include:

1. An absence of at least five years from the last term in attendance and
2. Approval by the Admissions Committee which will require an interview and a written personal history. Intervening transfer course work must be at least at the 2.000 GPA level.

The implications of readmission under academic amnesty are:

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1. The new Benedictine University cumulative GPA will be calculated based only on courses taken subsequent to re-entry. All courses taken and grades earned previously will appear as a separate entity on the transcript;
2. Academic probation will be a condition of admission;
3. "Re-entry Under Amnesty" will appear in the Remarks section of the transcript;
4. Amnesty may be used only once by a student;
5. Students must earn a minimum of 30 semester hours of coursework at Benedictine University after re-entry to be eligible for graduation;
6. Graduation honors eligibility will be based on grades after re-entry amnesty; and
7. The Catalog of reentry will be followed for graduation requirements.

Withdrawal from the University

A student who wishes to withdraw from the University during the semester begins by contacting the Student Success Center. A student who plans to return within two full academic years should complete the leave of absence form. (See the Student Leave of Absence section.) A student who does not intend to return to Benedictine University must complete the withdrawal form. An exit interview is required as part of the withdrawal process.

If the student has not applied for a leave of absence and later decides to return, application must be made through the Admissions Office. The student's record will be re-evaluated and the student is responsible for completing all new graduation requirements according to the University Catalog in effect at the time of readmission.

The amount of financial credit for withdrawal from all courses during the semester is determined by the date the completed form(s) is/are returned to Enrollment Services (Ben Central). (See General Refund Information.)

Students receiving financial aid of any kind must also consult Enrollment Services (Ben Central).

Student Leave of Absence

Any full- or part-time traditional student in satisfactory academic standing who must interrupt a degree program may apply to the Student Success Center for a leave of absence for two full academic years or four consecutive semesters (not including summer terms). The student's files will remain active both in the Office of the Registrar and with the academic advisor for the period of time requested. At the end of the leave of absence period, the student must notify the registrar and/or academic advisor of his or her intention to register. (Application through the Admissions Office is not required.) The student on leave may take advantage of early registration along with regularly enrolled students. *A student on leave does not qualify for special monetary loans or grants or other special arrangements which presuppose the status of a regular student.*

Student Deactivation Policy

Any matriculated undergraduate student who fails to register for classes for any three full consecutive terms without executing a Leave of Absence will have his/her Benedictine

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academic record converted to "inactive" status. When/if a deactivated student plans to return to the University and continue academic study, s/he must first contact the Admissions Office in the Enrollment Center and apply for readmission. Once readmitted, the student record will be placed back in an "active" status.

Application for Graduation

Students must apply to the registrar for graduation by the following dates: by January for August graduation; by March for December graduation; by October for May graduation. See the current academic calendar for specific deadline dates.

Graduation Honors

Graduation honors are determined on the basis of course work completed only at Benedictine University. Eligibility for graduation honors is contingent upon completion of the following specified undergraduate credit hours (excluding external credit hours), and achieved cumulative GPAs. Note: Associate degree students are not eligible for Latin honors.

With completion of 30-54.99 undergraduate credit hours, and achievement of the following cumulative GPA, this graduation honor is awarded:

- 3.500 to 4.000 With Honors

With completion of at least 55 undergraduate credit hours, and achievement of the following cumulative GPAs, these graduation honors are awarded:

- 3.900 to 4.000 Summa Cum Laude
- 3.750 to 3.899 Magna Cum Laude
- 3.500 to 3.749 Cum Laude

Student Records and Disclosures

Annual Notice to Students

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review your education records within a reasonable time after Benedictine University receives a request for access. If you wish to review your record, contact the Registrar or the University office that maintains the record to make arrangements. You are required to submit your requests in writing and identify the record(s) you wish to inspect.
2. The right to request an amendment of your education record if you believe it is inaccurate or misleading. If you feel there is an error in your record, you should submit a statement to the University official responsible for the record, clearly identifying the part of the record you want changed and why you believe it is inaccurate or misleading. That office will notify you of their decision and advise you regarding appropriate steps if you do not agree with the decision.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes

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disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. This includes any University faculty or staff employee (including the University Police Department) acting within the scope of his or her University employment and with appropriate supervisory authority; any individual or entity with whom the University has contracted as its agent to provide a service to the University when acting within the scope of the contract or agency and who is subject to appropriate confidentiality requirements; any member of the University's Board of Trustees; any student serving on an official committee, such as a disciplinary or grievance committee; and any student assisting a University official in performing tasks for which the University official may have access. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901.

Benedictine University's policy is to not release student record information without the express consent of the student. There are, however, some exceptions. For example, directory information may be released without the student's consent and includes the following: name, address, telephone number, major and minor fields of study; participation in officially recognized activities and sports, dates of attendance, degrees and awards received; most recent education institution attended; full-time/part-time enrollment status; and photo. The University also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

In compliance with the Solomon Amendment, directory information is provided to the United States Department of Defense, upon request.

You may withhold disclosure of directory information by completing the "FERPA Non-Disclosure of Designated Directory Information" form available in the Registrar's office, within ten (10) calendar days of the first scheduled class day of each fall term. A request to withhold disclosure of directory information is effective for one academic year only and must be renewed each year.

The University may also disclose student account and financial aid information without the student's consent to the student's parents if the parent requests the information in writing; completes the Parent Certification section of the Authorization For Release of Confidential Information to Parents; and provides evidence that the student is his or her dependent for federal income tax purposes. The University may also disclose information to a parent if there is a health or safety emergency involving their son or daughter, or if their son or daughter is under the age of 21 and has violated a federal, state or local law or any University rule or policy concerning the use or possession of alcohol or a controlled substance.

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Upon written request, the University will disclose, to the alleged victim of a crime of violence or a non-forcible sex offense, or to the alleged victim's next of kin (if the victim dies as a result of the crime or offense), the final results of any institutional disciplinary proceeding dealing with that crime or offense.

University Promotional Photos/Videos

Benedictine University and its representatives on occasion, take photographs/videos for the University's use in print and electronic materials. This serves as public notice of the University's intent to do so and as a release to the University giving permission to use such images as it deems fit.

If you should object to the use of your photograph, you have the right to withhold its release by contacting the Office of Marketing and Communications at (630) 829-6090.

Student Right-To-Know Act

The University provides data on retention and graduation rates through the Office of Institutional Research and at the [Compliance](#) webpage. Information on financial assistance, including descriptions of application procedures and forms, may be obtained from the Office of Financial Aid [Lisle Campus](#) (Lownik Hall) or [Springfield Campus](#) (Dawson Hall) and on pages 45-72 of this Catalogue. Information concerning athletic program participation and may be obtained from the [Athletics Department](#) Lisle Campus, Rice Center and [Athletics](#) Springfield Campus. Other institutional information including: the cost of attendance, accreditation and academic program data, facilities and services available to disabled students, and withdrawal and refund policies are located elsewhere in this Catalog.

Campus Security Policy and Campus Crime Statistics Act

Benedictine University's Annual Security Report and Annual Fire Safety Report are available online. These reports meet the requirements of the Jeanne Clery Disclosure of Campus Security Policies and Campus Crime Statistics Act for the reporting of crime statistics, fire safety information, and other relevant University policies. The electronic versions of these reports are available on the Benedictine University website at:

Lisle Campus

Annual Security Report

http://www.ben.edu/campus_resources/police/loader.cfm?csModule=security/getfile&pageid=118524

Annual Fire Safety Report on Student Housing

http://www.ben.edu/campus_resources/police/loader.cfm?csModule=security/getfile&pageid=121717

Springfield Branch Campus

Annual Security Report

http://www1.ben.edu/springfield/about/safety/annual_security_report.pdf

Annual Fire Safety Report on Student Housing

http://www1.ben.edu/springfield/about/safety/annual_fire_safety_report.pdf

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Moser Center

Annual Security Report

http://www.ben.edu/campus_resources/police/loader.cfm?csModule=security/getfile&pageid=124004

Bellwood Learning Center

Annual Security Report

http://www.ben.edu/campus_resources/police/loader.cfm?csModule=security/getfile&pageid=124004

Printed copies of these reports may be obtained at the Benedictine University Police Department (ground floor of the parking structure located in the southwest part of the Lisle campus) or by calling the non-emergency telephone number, Lisle (630) 829-6122; Springfield (217)306-8031

GENERAL ADMISSION INFORMATION

Tuition/Housing Deposits

To complete the admissions process, incoming freshmen are required to submit a \$200 tuition deposit. Incoming students who will be residents are required to submit a \$125 room and board deposit. Residential housing is available on a first come first serve basis. Students are required to submit their deposit before registration. All deposits should be submitted to: Enrollment Center, Benedictine University, 5700 College Road, Lisle, IL 60532-0900.

Readmission

Former Benedictine University students, not currently enrolled as degree-seeking students, may apply for readmission. An application must be submitted and will be reviewed for an admissions decision. Applicants who experienced academic problems should be prepared to demonstrate to the committee sufficient reasons for reconsideration. If a student's enrollment has been terminated for poor scholarship, such a student may be readmitted after a minimum of two academic semesters, provided evidence is presented which, in the judgment of the University, indicates that there is improved potential for academic success. All college courses for which the student registered in his/her absence from Benedictine University must be presented in the form of official transcripts. For readmission under amnesty, see the Academic Policies section.

General Admissions Policy

Benedictine University reserves the right to deny admission, continued enrollment or re-enrollment to any applicant or student whose personal history and background indicate that his or her presence at the University would endanger the health, safety, welfare or property of the members of the academic community or interfere with the orderly and effective performance of the University's functions. Some programs have special admissions standards. If you are considering a particular program, you need to determine the admissions standards for that program by reviewing the descriptions contained later in the Catalog or by

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contacting the faculty responsible for the program. Failure to provide Benedictine University with a correct and complete academic history will result in revoking of acceptance and/or administrative withdrawal.

Language Proficiency

All international applicants whose native language is not English must demonstrate English-language proficiency as a term of admission to the University. Proficiency may be evidenced by:

1. Official test scores from either Test of English as a Second Language (TOEFL) or International English Language Testing System (IELTS);
2. Supplying an original U.S. high school transcript from the school from which the applicant graduated and completed two years of study without English as a Second Language instruction;
3. Completing two years of full-time study at a university where the language of instruction is English; or
4. Presenting formal assessment through Benedictine University's International Programs Office.

FRESHMAN ADMISSION

Freshman Candidates

Freshman candidates are defined as individuals who have earned a high school diploma, completed a home schooling program, or earned a General Educational Development (GED) certificate within six months of enrolling at Benedictine University.

Freshman Admission

Admission is based on a review of each student's total academic and extracurricular record. It is necessary for some applicants to complete additional materials or come to the University for further assessment. Benedictine's philosophy is to select students who will perform successfully in our academic programs and become active members of the University community. Requests for admission are considered without regard to the applicant's race, religion, gender, age, national origin or disability.

High School Academic Preparation

In conjunction with The Illinois State Board of Education, Benedictine University requires its students to complete the following high school curriculum. If a student enrolls at Benedictine University not having satisfied the requirements, the student will be required to do so while enrolled at the University. Courses with a number less than 100 do not count toward the 120 credit hours required for graduation. University-level courses (100 level or above) completed to fulfill a condition of admission will count toward the 120-hour graduation requirement, but do not satisfy the University Core requirements. NOTE: a unit, as identified below, is equivalent to one full year of study in a given subject area.

1. Four units of English (emphasizing written and oral communication and literature);
2. Three units of social studies (emphasizing history and government);

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3. Three units of mathematics (introductory through advanced algebra, geometry, trigonometry or fundamentals of computer programming);
4. Three units of science (laboratory science); and
5. Two units of modern language.

How To Apply to the Lisle Campus (Freshman Candidates)

Send all materials to: Enrollment Center, Benedictine University, 5700 College Road, Lisle, IL 60532-0900. A personal interview with an Admissions Counselor is generally advisable and occasionally required. Official transcripts bearing the signature of the Registrar and the institutional seal must be issued by mail from the institution to Benedictine's Enrollment Center. Consideration for admission will take place when all the necessary information is received. Applications should be submitted as early as possible during the senior year of high school. Admission can be granted on the basis of six semesters of high school credit. Admission can be revoked if satisfactory completion of senior year coursework is not obtained and restrictions can also be added should academic portfolio change post admission and prior to course enrollment.

1. Submit a completed application form and non-refundable, one-time application fee of \$40.
 - a. Apply or download an application online.
 - b. Request a hard copy application by contacting us at: (630) 829-6300, toll free outside Illinois (888) 829-6363, or e-mail at admissions@ben.edu.
2. Submit official high school transcript. Home school transcripts should include letter grades, length of courses and texts used.
3. Submit official copy of ACT, SAT, TOEFL or IELTS test scores.
4. Submit High School Guidance Recommendation form (available online) to be completed by high school guidance counselor.
5. Written personal statement (may be required of some candidates).

Lisle Campus Freshmen Admission Requirements

Benedictine University has rolling admissions. Benedictine University does not have a deadline for accepting new applications for the Fall semester. We encourage traditional undergraduate students to apply within their first semester of their senior year of high school. The application review process takes approximately one week. Once your completed application has been received and reviewed, an admission counselor will personally contact you by phone with your admission status. Prospective freshmen should accept the offer of admission and pay the tuition deposit no later than May 1 to secure their spot for the incoming Freshman class.

Benedictine University requirements for Freshmen Admission:

- 2.5/4.0 GPA
- 21 ACT/980-1010 SAT
- Top 50 percent of graduating class
- Letter of recommendation from high school guidance counselor

Personal Statement: If students do not meet the above minimum requirements, they are encouraged to submit a **minimum one page** personal statement. The topic of this personal

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statement is "What are your academic strengths and how will they help you at Benedictine?" The personal statement is meant to be a reflection of past academic coursework as well as your writing ability. It is necessary that you provide all relevant information about your academic performance and high school experience.

Admission Committee: The Admission Committee meets weekly to review applications for prospective students who do not meet the minimum admission requirements. The Admission Committee looks for well-rounded students who will be successful and contribute to the Benedictine University community.

If you have any specific questions about admission requirements, your personal statement or the Admission Committee, please contact your [admission counselor](#).

How To Apply to the Springfield Branch Campus (Freshman Candidates)

Send all materials to: Office of Admissions, Benedictine University at Springfield, 1500 N. Fifth St., Springfield, Illinois 62702. A personal interview with an Admissions Counselor is generally advisable and occasionally required. Official transcripts bearing the signature of the Registrar and the institutional seal must be issued by mail from the institution to Benedictine's Office of Admissions. Consideration for admission will take place when all the necessary information is received. Applications should be submitted as early as possible during the senior year of high school. Admission can be granted on the basis of six semesters of high school credit. Admission can be revoked if satisfactory completion of senior year coursework is not obtained and restrictions can also be added should academic portfolio change post admission and prior to course enrollment.

- Submit a completed application form and non-refundable, one-time application fee of \$20.
 - a. Apply or download an application online.
 - b. Request a hard copy application by contacting us at: (217) 525-1420, toll free (800) 635-7289 or e-mail at springadm@ben.edu.
- Submit official high school transcript. Home school transcripts should include letter grades, length of courses and texts used.
- Submit official copy of ACT, SAT, TOEFL or IELTS test scores.
- Written personal statement (may be required of some candidates).

Springfield Branch Campus Freshman Admissions Requirements

Admission is based on a review of each student's total academic and extracurricular record. It is necessary for some applicants to complete additional materials or come to the University for further assessment. Requests for admission are considered without regard to the applicant's race, religion, gender, age, national origin or disability.

Benedictine University has rolling admissions. Benedictine University does not have a deadline for accepting new applications for the Fall semester. We encourage traditional undergraduate students to apply within their first semester of their senior year of high school. The application review process takes approximately one week. Once your completed application has been received and reviewed, an admission counselor will personally contact

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you by phone with your admission status. Prospective freshmen should accept the offer of admission and pay the tuition deposit no later than May 1 to secure their spot for the incoming freshman class.

Benedictine University requirements for Freshmen Admission:

- 2.5/4.0 GPA
- 21 ACT/980-1010 SAT
- Top 50 percent of graduating class

Personal Statement: If students do not meet the above minimum requirements, they are encouraged to submit a *minimum one page* personal statement. The topic of this personal statement is "What are your academic strengths and how will they help you at Benedictine?" The personal statement is meant to be a reflection of past academic coursework as well as your writing ability. It is necessary that you provide all relevant information about your academic performance and high school experience.

Admission Committee: The Admission Committee meets weekly to review applications for prospective students who do not meet the minimum admission requirements. The Admission Committee looks for well-rounded students who will be successful and contribute to the Benedictine University community. If you have any specific questions about admission requirements, your personal statement or the Admission Committee, please contact your [admission counselor](#).

TRANSFER ADMISSION

Transfer Candidates

Transfer candidates are defined as individuals with college credit or students whose high school graduation or GED completion date is six months prior to the academic year of enrolling at Benedictine University who intend to enroll in the traditional daytime program. Transfer candidates with less than 20 transferrable hours will be evaluated under the freshman checklist. Credits taken prior to high school graduation are not used to determine transfer student status.

Transfer Admission

Admission is based on a review of each student's total academic and extracurricular record. It is necessary for some applicants to complete additional materials or come to the University for further assessment. Benedictine's philosophy is to select students who will perform successfully in our academic programs and become active members of the University community. Requests for admission are considered without regard to the applicant's race, religion, gender, age, national origin or disability.

How To Apply to the Lisle Campus (Transfer Candidates)

Send all materials to: Enrollment Center, Benedictine University, 5700 College Road, Lisle, IL 60532-0900. A personal interview with an admissions counselor is generally advisable and occasionally required. Official transcripts bearing the signature of the registrar and the

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institutional seal must be issued by mail from the institution to Benedictine's Enrollment Center. Consideration for admission will take place when all the necessary information is received. If an applicant has 20 or more transferable semester hours:

1. Submit a completed application form and non-refundable, one-time application fee of \$40.
 - a. Apply or download an application online.
 - b. Request a hard copy application by contacting us at: (630) 829-6300, toll free outside Illinois (888) 829-6363, or email at admissions@ben.edu.
2. Submit official transcripts directly from each college or university attended.
3. Written personal statement (may be required of some candidates).
4. Letter of Recommendation (may be required of some candidates).

If the applicant has less than 20 transferable semester hours:

1. Steps one, two, three and four above;
2. Submit official high school transcript;
3. Submit official copy of ACT, SAT, TOEFL or IELTS test scores.

Lisle Campus Transfer Admission Requirements

Benedictine University's admission philosophy is to select students who will perform successfully in the University's academic programs and actively participate in University life. We offer a rolling admission into all of our traditional undergraduate programs, meaning applications are accepted and admission decisions are made throughout the year without deadline restrictions.

Students transferring into Benedictine University's traditional undergraduate programs must have:

- A minimum of 20 transferable semester hours (If a student has fewer than 20 semester hours of transfer credit, freshman requirements apply)
- A cumulative grade point average of 2.0 on a 4.0 scale or better from all colleges and universities previously attended
- No previous academic probation or academic dismissal

Students who do not meet the above admission requirements are encouraged to contact the Enrollment Center to set up an appointment with one of our Transfer Counselors to discuss the Admission Committee review process.

How To Apply to the Springfield Branch Campus (Transfer Candidates)

Send all materials to: Office of Admissions, Benedictine University at Springfield, 1500 N. Fifth St., Springfield, Illinois 62702. A personal interview with an admissions counselor is generally advisable and occasionally required. Official transcripts bearing the signature of the registrar and the institutional seal must be issued by mail from the institution to Benedictine's Office of Admissions. Consideration for admission will take place when all the necessary information is received. If an applicant has 20 or more transferable semester hours:

1. Submit a completed application form and non-refundable, one-time application fee of \$20.
 - a. Apply or download an application online.

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- b. Request a hard copy application by contacting us at: (217) 525-1420, toll free (800) 635-7289, or email at springadm@ben.edu.
2. Submit official transcripts directly from each college or university attended.
3. Written personal statement (may be required of some candidates).

If the applicant has less than 20 transferable semester hours:

1. Steps one, two and three above;
2. Submit official high school transcript;
3. Submit official copy of ACT, SAT, TOEFL or IELTS test scores.

Springfield Branch Campus Transfer Admissions Requirements

Students transferring into Benedictine University's traditional undergraduate programs must have:

- A minimum of 20 transferable semester hours (If a student has fewer than 20 semester hours of transfer credit, freshman requirements apply)
- A cumulative grade point average of 2.0 on a 4.0 scale or better from all colleges and universities previously attended
- No previous academic probation or academic dismissal

Students who do not meet the above admission requirements are encouraged to contact the Admissions Office to set up an appointment with one of our Transfer Counselors to discuss the Admission Committee review process.

INTERNATIONAL ADMISSION

All prospective undergraduate students with citizenship other than that of the United States, and those who are not in "permanent residency" status, are considered international applicants. International students studying full time at Benedictine University require an F-1 visa. Students are encouraged to complete the application process prior to submission deadlines; applications are evaluated after all required documentation has been received.

Applications from international students should be received by Benedictine University no later than June 1 for the Fall term or by October 1 for the Spring term of the year in which the student plans to enroll. Students are encouraged to complete the application process prior to submission deadlines; applications are evaluated only after all required documentation has been received.

Recognizing the academic and cultural benefits of having international students in classes and on campus, Benedictine University is pleased to accept applications from this student group. International student applicants are evaluated by the same admissions standards as those established for American students. Requests for admission are considered without regard to the applicant's race, religion, gender, age, national origin or disability.

International Application Materials

Undergraduate freshman and transfer admissions applications, document instructions, and general university information can be obtained from the Enrollment Center by calling (630) 829-6300 or emailing admissions@ben.edu.

The following materials are required to complete the application process:

1. Benedictine University's International Application for Admission
2. A non-refundable application fee payable by personal check or money order of \$40
3. Official transcripts from all universities previously attended must be submitted with English translation. High school transcripts must be submitted with English translation if applicable.
4. Official Educational Credentials Evaluators (ECE) evaluation of any foreign country transcripts (may be required of some applicants)
5. Official results of any Standardized Test - ACT, SAT, TOEFL or IELTS
6. Two letters of reference written by school officials or professors
7. Evidence of English proficiency
8. Confidential Financial Statement of Support with official bank statement, letter of sponsorship or other supporting documents
9. International Student Health Form
10. Proof of insurance
11. Housing Preference Form (if applicable)

Some student applicants must have all non-United States academic credentials evaluated by Educational Credentials Evaluators, Inc. (ECE): It identifies U.S. education that is equivalent to programs studied in other countries. ECE applications are included in the admissions packet, are available in the Enrollment Center and from ECE's website at www.ece.org.

ADULT ACCELERATED UNDERGRADUATE ADMISSION

The Adult Accelerated Undergraduate Programs were created to best serve the needs of adult and returning students who are 22 years of age and older. Admissions requirements vary by program type.

Admission is based on a review of each student's total academic and extracurricular record. It is necessary for some applicants to complete additional materials or come to the University for further assessment. The Admissions philosophy is to select students who will perform successfully in our academic programs and become active members of the University community. Requests for admission are considered without regard to the applicant's race, religion, gender, age, national origin or disability.

Our adult programs were developed to provide an environment that supports adults in taking responsibility for their own learning and which values and uses the experience which an adult brings to the classroom. Rooted in the idea of responsible learning, the adult programs offer flexible scheduling, accelerated program options and credit for life learning. This model is built on the assumption that adults can engage in guided independent study outside the classroom. The classroom experience focuses on the integration of theory and practice and

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emphasizes application, analysis and synthesis of information through collaborative and cooperative learning.

Lisle Campus and Moser College Application Materials

Send all materials to: Enrollment Center, Benedictine University, Lisle, IL 60532. A personal interview with an admissions counselor is generally advisable and occasionally required. Official transcripts bearing the signature of the registrar and the institutional seal must be issued by mail from the institution to Benedictine's Enrollment Center. Consideration for admission will take place when all the necessary information is received.

If the applicant has 20 or more transferable semester hours:

1. Submit a completed application form and non-refundable, one-time application fee;
 - a. Apply or download an application online.
 - b. Request a hard copy application by contacting us at: (630) 829-6300, toll free outside Illinois (888) 829-6363 or admissions@ben.edu.
2. Submit official transcripts directly from each college or university attended
3. Personal statement may be required of some applicants;
4. Letter(s) of reference from faculty and/or professional associates to evaluate the potential success of the candidate for the program may be required of some applicants; and
5. Valid nursing license, BSN Completion applicants only.

If the applicant has fewer than 20 transferable semester hours:

1. Steps one, two and three above;
2. Submit official high school transcript; and
3. Submit official copy of ACT, SAT, TOEFL or IELTS test scores (may be required of some candidates).

Lisle Campus and Moser College Adult Undergraduate Admissions Requirements

Our Benedictine University admissions philosophy is to select students who will perform successfully in the University's academic programs and be active members of the University community. We offer a rolling admission into all of our undergraduate programs, meaning, applications are accepted and admissions decisions are made throughout the year without deadline restrictions.

Students entering Benedictine University's adult undergraduate programs must meet the following requirements:

PROGRAM
REQUIREMENTS
Associate of Arts in Business Administration

High School diploma or GED, Cumulative GPA 2.0 / 4.0 from any college level coursework, 22 years of age or older, two years of work experience

Bachelor of Arts in Management and Bachelor of Arts in Organizational Leadership

Minimum 36 transferable credit hours of which at least 18 hours must meet general education requirements, Cumulative GPA 2.0 / 4.0 from any college level coursework, 22 years of age or older, two years of work experience

Bachelor of Business Administration in Accounting and Bachelor of Business Administration in Finance

Minimum 60 transferable credit hours, Cumulative GPA 2.0 / 4.0 from any college level coursework, 22 years of age or older, two years of work experience

Bachelor of Science in Nursing

Minimum 55 transferable credit hours including Writing 101, Cumulative GPA 2.5 / 4.0 from any college level coursework, Valid Illinois RN license, Demonstration of computer literacy

Students who do not meet the above admissions requirements are encouraged to contact the Enrollment Center to set up an appointment with one of our adult admission counselors to discuss the Admission Committee review process.

Springfield Branch Campus Application Materials

Send all materials to: Office of Admissions, Benedictine University at Springfield, 1500 N. Fifth St., Springfield, Illinois 62702. A personal interview with an admissions counselor is generally advisable and occasionally required. Official transcripts bearing the signature of the registrar and the institutional seal must be issued by mail from the institution to Benedictine's Office of Admissions. Consideration for admission will take place when all the necessary information is received.

If the applicant has 20 or more transferable semester hours:

1. Submit a completed application form and non-refundable, one-time application fee;
 - a. Apply or download an application online.
 - b. Request a hard copy application by contacting us at: (217) 525-1420, toll free (800) 635-7289 or springadm@ben.edu.
2. Submit official transcripts directly from each college or university attended
3. Personal statement may be required of some applicants;
4. Letter(s) of reference from faculty and/or professional associates to evaluate the potential success of the candidate for the program may be required of some applicants; and
5. Valid nursing license, BSN Completion applicants only.

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If the applicant has fewer than 20 transferable semester hours:

1. Steps one, two and three above;
2. Submit official high school transcript; and

Submit official copy of ACT, SAT, TOEFL or IELTS test scores (may be required of some candidates).

Springfield Branch Campus Adult Undergraduate Admissions Requirements

We offer a rolling admission into all of our undergraduate programs, meaning, applications are accepted and admissions decisions are made throughout the year without deadline restrictions.

Students entering Benedictine University's adult undergraduate programs must meet the following requirements:

PROGRAM	REQUIREMENTS
Associate of Arts in Business Administration	High School diploma or GED, Cumulative GPA 2.0 / 4.0 from any college level coursework, 22 years of age or older, two years of work experience
Bachelor of Arts in Management and Bachelor of Arts in Psychology	Minimum 36 transferable credit hours, Cumulative GPA 2.0 / 4.0 from any college level coursework, 22 years of age or older, two years of work experience
Bachelor of Business Administration in Management and Organizational Behavior	Minimum 60 transferable credit hours, Cumulative GPA 2.0 / 4.0 from any college level coursework, 22 years of age or older, two years of work experience
Bachelor of Science in Nursing	Minimum 55 transferable credit hours including Writing 101, Cumulative GPA 2.5 / 4.0 from any college level coursework, Valid Illinois RN license, Demonstration of computer literacy

Students who do not meet the above admissions requirements are encouraged to contact the Office of Admissions to set up an appointment with our adult admission counselor to discuss the Admission Committee review process.

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Adult Advising

Our programs are designed for working adults and recognize that students in these programs are highly self-directed with multiple demands on their time. Faculty and staff are committed to creating a decision-making framework through which students can realize their educational goals. Although academic advising is a collaborative function of both student and advisor, the final responsibility for satisfying University and major requirements rests with the student.

FINANCIAL POLICIES

Benedictine University is a non-profit corporation. Its endowment primarily consists of the contributed services of the Benedictine monks who teach at the University. The annual income from a student's fees covers only a portion of the cost of his or her education. Therefore, to meet its educational objective, and in fairness to all students, the University must insist on the following regulation: Financial arrangements must be made prior to the first day of the term.

Tuition

Tuition and fees are incurred at the time of registration. Tuition is due in full within seven calendar days after the first class meeting. Benedictine University has partnered with Sallie Mae to provide interest-free monthly payment plans through the TuitionPay Plan for those students seeking arrangements to balance their tuition payments over an extended period of time.

A "Statement of Accounts" is generated and mailed to your billing or home address once each month. This statement reflects only that activity which has taken place on your student account in the last billing cycle (similar to your checking/savings/credit card statements of account). Please note that payments are expected by the due date regardless of whether a statement is received. If you are nearing a payment due date and have not received a statement, please contact Student Accounts at (630) 829-6503 for assistance to determine the amount due. Students are encouraged to view their account information online using [MyBenU](#).

Lisle Campus 2013-2014

Tuition and Fees*

Traditional Undergraduate

Full-Time Students (12-18 credit hours):

Tuition: \$12,920

Mandatory fees: \$550

Overload Tuition Fee (per credit hour over 18): Equal to semester hour part-time rate

Part-Time Students (1-11 credit hours):

Tuition (per credit hour): \$865

Technology fee (per credit hour): \$15

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Health fee (4-11 credit hours): \$40

Audit (no credit) Tuition (per credit hour): \$415

Adult Accelerated Undergraduate Students

Tuition (per credit hour): \$540

Summer Term

Traditional Undergraduate Tuition (per credit hour): \$790

Room and Board Charges*

Residence Halls

Jaeger Hall: \$2,720

Neuzil Hall (based on 3 students per suite): \$3,080

Ondrak Hall: \$2,792

Cancellation fee: \$200

Private room surcharge (per term): \$500

Room change fee: \$50

Security deposit: \$125

Residence Hall Meal Plans: \$1,300

160 meals plus \$150 Munch Money or 140 meals plus \$200 Munch Money

Founders' Woods

4 BR, 2BTH (per person): \$3,535

2 BR, 1BTH (per person): \$4,010

2 BR, 2BTH (per person): \$4,235

1 BR, 1BTH (per person): \$5,350

Cancellation fee: \$300

Room change fee: \$100

Security deposit: \$125

Founders' Woods Meal Plan (25 meals): \$135

All full-time undergraduate students receive \$15 in Munch Money and two meals.

*Cost per term

Course-related Charges*

(Nonrefundable after the first week of the semester)

Applied Music: \$315

Biology lab: \$130

Chemistry lab: \$160

Communication: \$45-\$60

Computer Science lab: \$10

Education lab: \$30-\$45

Education student teaching (per course)

Elementary/Secondary: \$125

Special Education: \$62.50

Environmental lab: \$400

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Exercise Physiology: \$130
Fine Arts: \$30-\$75
Graphic Arts and Design: \$100
Health Science: \$150
Mathematics lab: \$60
Music: \$10-\$200
Natural Science lab: \$130-\$160
Nutrition lab: \$160
Physical Education Assessment: \$30
Physical Science lab: \$75
Physics lab: \$100
Professional liability insurance: market rate
Research Methods: \$35
Statistics: \$35

All course related charges subject to change. See the current course schedule for updates.

Administrative Service Charges

Administrative fee: \$250
Advance placement credit posting fee (per examination credited): \$20
Application fee: \$40
Application for Graduation fee: \$125
Application for Certification fee: \$25
C.L.E.P. posting fee (per examination credited): \$20
Duplicate Diploma fee: \$25
Diploma red cover: \$10
Express transcript mailing (per address): \$30
Immediate academic transcript fee (in 24 hours): \$20
Late payment/registration fee: \$100
New student orientation fee: \$100
Placement test posting fee: \$10
Special Examination: \$5
Transcript fee: \$5
Work/Life Experience fee (per credit hour granted): \$100

All tuition remission students and consortium students must pay applicable fees such as activity, graduation, health, technology and lab fees.

Springfield Branch Campus 2013-2014

Tuition and Fees*

Traditional Undergraduate

Full-Time Students (12-18 credit hours):

Tuition: \$6,825

Overload Tuition Fee (per credit hour over 18): Equal to semester hour part-time rate

Activity fee: \$45

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General Service fee: \$50

Part-Time Students (1-11 credit hours):

Tuition (per credit hour): \$570

Activity fee: \$45

General Service fee (1-6 credit hours): \$50

General Service fee (more than 6 credit hours): \$100

Summer Term

Tuition (per credit hour): \$210

Adult Accelerated Undergraduate Program

Tuition (per credit hours): \$325

General Service fee (per term): \$25

B.S.N. Tuition (per credit hour): \$290

Audit (no credit): \$160

Room and Board Charges*

Residence Halls (including room and board)

Mueller Hall, single room: \$3,860

Mueller Hall, double/per student: \$3,660

Hanlon/Mueth Hall, single room: \$3,660

Dockson Plaza, single room: \$4,375

Dockson Plaza, double room: \$3,725

Security Deposit: \$300

*Cost per term

Course-related Charges *

(Nonrefundable after the first week of the semester)

Anthropology 112: \$15

Art 103: \$75

Art 117, 119, 120, 121, 122, 221, 225, 231: \$100

Art 118, 220, 241, 242: \$125

Biology lab: \$75

Business 105: \$60

Chemistry lab: \$75

Computer Science (all courses): \$60

English 201: \$20

Physical Geography 105: \$75

Physical Science Labs: \$75

Physics lab: \$75

Theater 121, 122: \$20

All course related charges subject to change. See the current course schedule for updates.

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Administrative Service Charges

Administrative fee: \$250
Advance placement credit posting fee (per examination credited): \$20
Application fee: \$20
Application for Graduation fee: \$125
Application for Certification fee: \$25
C.L.E.P. posting fee (per examination credited): \$85
Clergy/Lay Ministry Program (per credit hour): \$50
Dantes Student Standardization Test (DSST): \$95
Duplicate Diploma fee: \$25
Diploma red cover: \$10
Early Enrollment Program (per credit hour): \$100
Elementary Education Background Check Fee: \$100
Express transcript mailing (per address): \$30
Immediate academic transcript fee (in 24 hours): \$20
Late payment/registration fee: \$100
New student orientation fee: \$100
Non-Sufficient Funds Check (NSF): \$30
Placement test posting fee: \$10
Portfolio Assessment (per credit hour): \$50
Special Examination: \$15
Transcript fee: \$5
Work/Life Experience fee (per credit hour granted): \$100

All tuition remission students and consortium students must pay applicable fees such as activity, graduation, health, technology and lab fees.

Moser College Learning Team Programs 2013-2014**Tuition and Fees (per credit hour)***

Associate of Arts in Business Administration tuition: \$330
Bachelor's degrees tuition: \$560

Administrative Service Charges

Administrative fee: \$250
Advance placement credit posting fee (per examination credited): \$20
Application fee: \$40
Application for Graduation fee: \$125
Application for Certification fee: \$25
C.L.E.P. posting fee (per examination credited): \$20
Duplicate Diploma fee: \$25
Diploma red cover: \$10
Express transcript mailing (per address): \$30
Immediate academic transcript fee (in 24 hours): \$20
Late payment/registration fee: \$100
New student orientation fee: \$100
Placement test posting fee: \$10

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Special Examination: \$5

Transcript fee: \$5

Work/Life Experience fee (per credit hour granted): \$100

All tuition remission students and consortium students must pay applicable fees such as activity, graduation, health, technology and lab fees.

Moser College Online Programs 2013-2014

Tuition and Fees (per credit hour)*

Online Associate of Arts in Business Administration tuition: \$395

Online Undergraduate tuition (lower level class): \$395

Online Undergraduate tuition (upper level class): \$580

Administrative Service Charges

Administrative fee: \$250

Advance placement credit posting fee (per examination credited): \$20

Application fee: \$40

Application for Graduation fee: \$125

Application for Certification fee: \$25

C.L.E.P. posting fee (per examination credited): \$20

Duplicate Diploma fee: \$25

Diploma red cover: \$10

Express transcript mailing (per address): \$30

Immediate academic transcript fee (in 24 hours): \$20

Late payment/registration fee: \$100

New student orientation fee: \$100

Placement test posting fee: \$10

Special Examination: \$5

Transcript fee: \$5

Work/Life Experience fee (per credit hour granted): \$100

All tuition remission students and consortium students must pay applicable fees such as activity, graduation, health, technology and lab fees.

Payment Options

1. Payment in full - Benedictine University accepts cash, personal checks, money orders, Visa, MasterCard and Discover. PAYMENT DEADLINE: within seven calendar days after the first class meeting. Students may view and pay their accounts online at www.ben.edu/MyBenU from any on-campus computer or access MyBenU via [BenUConnect](http://www.ben.edu/BenUConnect) at from off-campus. Instructions on how to make an online payment are found at <http://www.ben.edu/MyBenU>
2. Benedictine University has partnered with Sallie Mae to provide interest-free monthly payment options through the TuitionPay Plan. Students may create budgets to manage their tuition costs annually or per term. Students may enroll online at <http://tuitionpay.salliemae.com/ben> or call (800) 635-0120 to speak with a TuitionPay

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consultant. Be sure to have your estimated expenses ready when you call or visit the website. If your budget changes at any time (increase/decrease in financial aid, increase/decrease of tuition charges or fees), please contact TuitionPay to adjust your payment plan accordingly. Please note that if the budget amount does not equal your balance due with Benedictine University, a financial hold and late payment fee may apply.

- Annual budgets - For a fee of \$50, students can make monthly payments toward their full-year's tuition balance (June - May).
- Single Term budgets - For a fee of \$30, students can make monthly payments toward their tuition balance for a single term.

TuitionPay website: <http://tuitionpay.salliemae.com/ben>

Click on Enroll Now for list of available plans.

3. Employer tuition reimbursement - For a fee of \$30, students can arrange with Sallie Mae's TuitionPay, a single tuition payment plan due at the end of the term (plus a grace period) with proper documentation from their employer. Documentation of your employer's reimbursement policy must be submitted to the Student Accounts Office of Benedictine University prior to enrolling in this plan. An updated copy of the policy must be submitted every Fall term thereafter. Students may fax their employer's policy to Student Accounts at (630) 829-6501. After submitting documentation showing eligibility, student may enroll in the plan that best corresponds with their class and program. If the student's enrollment changes after the initial set up of this plan, the student will be responsible for adjusting the payment plan either online or with a TuitionPay consultant at (800) 635-0120. If the student makes a payment directly to Benedictine rather than to TuitionPay, it is the student's responsibility to contact the Student Accounts Office so that we may notify TuitionPay. Due to new legislation, the Student Accounts Office will not have access to enroll students or make adjustments to these accounts. Please note that tuition is due in full according to the deferred due date specified by TuitionPay regardless of when individual employers reimburse their employees.

*****Failure to meet Options 1, 2 or 3 by payment deadline will result in a late payment fee of \$100 and a financial hold placed on the student's account*****

Tuition Refund Policy

1. To be eligible for a tuition refund after the commencement of classes:
 - a) The student must officially withdraw from a course within the timeframes set out in the Tuition Refund Timetable below, and
 - b) After the official withdrawal from a course or courses, be enrolled less than full time (less than 12 credit hours).
2. Students maintaining a full-time enrollment of 12 or more credit hours in the term, after the official withdrawal from a course or courses, are not eligible for a refund.
3. Students who are expelled, administratively withdrawn or suspended from the University during the course of an academic term are not eligible for a tuition refund and are responsible for all tuition, fees and other costs incurred.

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4. Recipients of federal financial aid who officially drop a course or withdraw from the University are subject to Return of Title IV Funds Regulations. Dropping a course or withdrawing from the University (officially or unofficially, such as by non-attendance) may result in a portion or all of financial aid being returned back to the Department of Education. This may result in a debit balance to the student's account with the University which the student is responsible to pay.
5. The amount of refund, if any, is determined by the date the student successfully completes the drop in MyBenU; or the date the completed Add/Drop or Withdrawal Form is received by the University. See the Tuition Refund Timetable below for timeframes and refund percentages.
 - a) Students who do not officially drop a course in MyBenU or in writing will be financially responsible for the entire cost of the course.
 - b) Notifying the instructor of intent to drop a course and/or non-attendance in a course does not constitute an official withdrawal for purposes of eligibility for refunds by the University to the student.
 - c) Tuition credit for complete withdrawal will be made only after the proper withdrawal notification has been submitted.
 - d) If the drop results in a credit balance on the student's account, refunds will be issued within 30 days of the official drop or withdrawal date.
6. To officially withdraw from a course after the commencement of classes, all students should use MyBenU to complete the withdrawal, or complete the ADD/DROP FORM and return the form to the campus office listed below. Students enrolled in adult accelerated learning team programs must complete the LEARNING TEAM CHANGE FORM and return it to the campus offices listed below:
 - a) **Lisle and Moser Learning Teams** –Your academic advisor.
 - b) **Springfield Branch Campus** – Springfield Campus Advising Office.
7. To officially withdraw from the University after the commencement of classes, a student must complete the necessary paperwork at the following locations. A student planning to return within four consecutive semesters (not including summer semesters) must apply for a Leave of Absence and a student not planning to return must complete the Withdrawal Form.
 - **Lisle Campus** – Complete the WITHDRAWAL FORM. Return it to the Student Success Center.
 - **Springfield Branch Campus** – Complete the WITHDRAWAL FORM. Return it to the Campus Advising Office.
 - **Moser Center** – Complete the LEARNING TEAM STUDENT SCHOOL/PROGRAM WITHDRAWAL FORM. Return it to your advisor.

Tuition Refund Timetable				
Refund per dropped course	Traditional Programs Fall/Spring Terms	Traditional Programs Summer Term	Moser College Learning Teams	Online Programs
Full Refund	Up to 7 calendar days after first class meeting	Up to 3 calendar days after first class meeting	Up to 7 calendar days after the first class meeting	Up through Thursday of the first week of the session
75% Refund	8 - 14 calendar days after the first class meeting	N/A	N/A	N/A
50% Refund	15 - 21 calendar days after the first class meeting	4 - 6 calendar days after the first class meeting	N/A	Friday through Sunday of the first week of the session
No Refund	22 calendar days or more after the first class meeting	7 calendar days or more after the first class meeting	8 calendar days or more after the first class meeting	After the first week of class
No Refund	After the first class meeting for courses with a condensed meeting schedule	After the first class meeting for courses with a condensed meeting schedule	After the first class meeting for courses with a condensed meeting schedule	N/A

Financial Appeal

This process is designed to address extenuating circumstances that occurred during a given semester that prevented a student from receiving a partial or full refund for a course(s). Students may write a letter of appeal describing the reason(s) and justification for seeking an exception to the refund policy. The burden of proof shall be upon the student to prove his or her case by a preponderance of evidence in the written appeal. Be specific with extenuating circumstances, dates, the name of persons contacted and any steps you took to address the problem at the time it occurred. Attach appropriate documentation from your instructor, medical provider or other professionals as needed.

Student submits the appeal to the Financial Appeal Committee by:

Mail:

Benedictine University
Attn: Financial Appeals Committee
5700 College Road, Lisle, IL 60532

Fax:

Financial Appeals Committee
(630) 829-6501

Email: FinancialAppealsCommittee@ben.edu

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For more information on Student Accounts, please visit
http://www.ben.edu/campus_resources/studentaccounts/index.cfm.

Fees

Late Registration Fee: \$100 per course late fee registration for enrolling after the drop/add period.

All tuition remission students and consortium students must pay applicable fees such as graduation, health service, technology, lab and mandatory fees. (Fees are subject to change without further notice.)

Refund checks are issued to students when excess funds exist on their accounts after crediting Title IV funds. Refunds for student loans and other Title IV funds are processed and mailed out to students 10 days after funds are posted to the student's account. To request a refund of another type of overpayment on your account, you must complete a refund request form and send it to Student Accounts. The refund request form can be found online at http://www.ben.edu/campus_resources/studentaccounts/forms.cfm. Direct deposit for student refunds is also available. Students can enter and modify their direct deposit information using the following navigation. Self Service > Payroll and Compensation > Direct Deposit. Complete instructions can be found on the MyBenU login page under Faculty/Staff: How To Add/Update Payroll Direct Deposit.

All drops or withdrawals are dated as of the date in which they were submitted to Enrollment Services (Ben Central). The tuition refund policies are listed above. The summer terms have a separate tuition refund policy. Whether or not you attend classes, the period of attendance will be computed as the number of days from the scheduled date of opening class in each term to the date shown on the drop or withdrawal slip. See the "Financial Aid" section for information regarding the use of financial aid in the case of a withdrawal.

The boarding fee is pro-rated from the date of confirmation of registration to the day of withdrawal. Students who withdraw from campus housing within 30 days of the beginning of the academic term will be charged for room fees on a pro-rated basis. No refunds are given after 30 days of the term have expired.

Students who are expelled or suspended from the University during the course of an academic term will not be allowed any financial credit on tuition charges. Similarly, resident students who are expelled or suspended from campus housing and from the accompanying food service plan, either permanently or for a temporary period during the course of an academic term, will not be allowed any financial credit on room and board charges.

Courses which require the leasing of off-campus facilities from off-campus agencies require pre-payment in full. Therefore, NO refunds can be made of the tuition or lab fees for such courses.

Courses requiring professional liability insurance require the purchase of such insurance from off-campus agencies demanding pre-payment in full; therefore, NO refund can be made for the professional liability insurance charge. For such programs as the Federal Student Loan

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and the State Monetary Awards, cash refund of credit balances will not be made until funds are received from the agency in question and the required procedures are completed.

Other Policies

1. Enrollment shall be considered as signifying knowledge of all conditions, rules and regulations and shall be deemed as acceptance thereof.
2. The University shall not be responsible for any damage or loss of personal property from any cause whatsoever.
3. Bills for University services or monetary sanctions such as library fines, residence hall fines, parking fines or extra student health charges must be paid in full 10 days prior to final examinations for the semester.
4. Students are not entitled to receive recommendations, degrees, honors, grades or transcripts of credit until all bills are paid and National Direct/Defense Student loans and Perkins loans are in current status.
5. In the event of default in the payment of any amount due, and if the account is placed in the hands of an agency or attorney for collection or legal action, the student agrees to pay an additional charge equal to the cost of collection including agency and attorney fees and court costs.
6. Payments made by personal check, business check or online by ACH will be subject to a 14 day hold to allow for clearance of funds. This hold will not be lifted until 14 days have passed, regardless of your scheduled registration date unless proper documentation is provided from your bank showing the payment has cleared your account. Any holds on your account must be satisfied before registration for the upcoming term will be allowed.

Financial Aid

Benedictine University's Office of Financial Aid administers a variety of federal, state and institutional programs of student financial assistance. Each of these programs carries specific student eligibility requirements. In general, students must be formally admitted as degree-seeking and enrolled for a minimum number of credit hours. All financial aid recipients must maintain satisfactory academic progress in accordance with the published, "Satisfactory Academic Progress Policy for Financial Aid Recipients."

The fundamental purpose of the financial aid program at Benedictine University is to make it possible for every qualified student to obtain a college education regardless of financial means. The process of financing an education is a partnership. Although the student and his/her family has primary responsibility for meeting college costs, Benedictine University, as well as the federal and state governments have a variety of financial aid programs available to students who need financial assistance.

Benedictine University will not unlawfully deny educational services to any otherwise qualified student on the basis of race, color, gender, age, national origin, disability or veteran status.

Application Procedures

All students applying for financial aid are asked to complete the Free Application for Federal Student Aid (FAFSA).

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Students must reapply for financial aid each award year. The FAFSA should be completed as soon as possible after January 1.

Types of Aid

After completing the financial aid application process, the student will receive a financial aid award letter. The award letter will include the program(s) that the student is eligible to receive and the award amount(s).

- Grants/Scholarships - Grants and scholarships are considered to be gift assistance. Gift assistance does not have to be repaid.
- Loans - Loans are considered to be a form of self-help assistance. Loan programs provide funds for educational purposes and are paid back with interest.
- Employment - Part-time jobs on campus are available to students through the University and Federal Work-Study program. Students working on campus receive a bi-weekly paycheck.

State and Federal Grants

State of Illinois (IL) Monetary Award Program (MAP) Grant

Source: Illinois Student Assistance Commission

Eligibility: U.S. Citizens or eligible noncitizens, Residents of Illinois, Demonstration of need (FAFSA)

Federal Pell Grant

Source: Federal Government

Eligibility: U.S. Citizens or eligible noncitizens, Demonstration of need (FAFSA)

Federal Supplemental Education Opportunity Grant (SEOG)

Source: Federal Government

Eligibility: U.S. Citizens or eligible noncitizens, Demonstration of need (FAFSA)

Information on federal and state programs may be subject to change at any time due to changes in legislation.

Scholarships

Incoming Freshmen:

Benedictine Scholars Program Award

Amount \$14,000 per year

Eligibility Awarded by the Scholars Program selection committee to a limited number of freshmen; not applicable to students in pre-pharmacy programs. Freshman students must have a minimum 3.75/4.0 cumulative GPA; a 27 ACT or 1210 SAT; and two years of foreign language. This award cannot be combined with any other institutional tuition awards.

Renewability Continued participation in the Scholars Program; cumulative 3.2/4.0 GPA; full-time enrollment

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Presidential Award

Amount \$8,400-\$12,800 per year

Eligibility Evaluation of academic performance in high school curriculum

Renewability Cumulative 2.75/4.0 GPA; full-time enrollment

St. Benedict Award

Amount \$5,200- \$8,200 per year

Eligibility Evaluation of academic performance in high school curriculum

Renewability Cumulative 2.5/4.0 GPA; full-time enrollment

Benedictine Eagle Award

Amount \$2,600-\$4,600 per year

Eligibility Evaluation of academic performance in high school curriculum

Renewability Cumulative 2.5/4.0 GPA; full-time enrollment

Catholic High School Recognition Award

Amount \$3,000 per year

Eligibility Graduate of a Catholic high school

Renewability Full-time enrollment

Music Scholarship

Amount Up to \$4,000 per year

Eligibility Successful completion of a music audition with the music department; declared major or minor in music

Renewability Maintain a 3.0 GPA; enroll in at least one music course per semester with music department advisor approval; full-time enrollment

Alumni Recognition Award

Amount Up to \$1,000 per year per parent

Eligibility Son or daughter of a Benedictine University alumnus. Parent(s) must have graduated from a Benedictine University undergraduate, graduate or doctorate degree program.

Renewability Full-time enrollment

Out-of-State Award

Amount Up to \$5,000 per year

Eligibility Residents of a state other than Illinois who will reside on campus; FAFSA completion; financial need.

Renewability Full-time enrollment and campus resident

Sibling Recognition Award

Amount Up to \$1,500 per year maximum regardless of number of currently or previously enrolled siblings. This award is not applicable for currently enrolled sibling(s).

Eligibility Incoming student is eligible if sibling(s) is currently enrolled in the traditional undergraduate program, or if sibling(s) is a Benedictine University alumnus of the traditional undergraduate program

Renewability Full-time enrollment

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Leadership Award

Amount \$1,500 per year

Eligibility Participation in high school leadership roles, excluding athletics**

Requirements Completed Scholarship Application, essay and letter of recommendation from the Faculty Advisor of the club/organization in which you participated during your high school career.* Completed applications must be submitted to the Enrollment Center no later than June 30.

Renewability Full-time enrollment; Completion of renewability form submitted to Student Life

Honors Society Award

Amount \$2,000 per year

Eligibility Active member of a nationally accredited honors society

Requirements A letter of recommendation from the Faculty Advisor of the honors society.

This can be submitted with your application to Benedictine University or after being admitted.

Renewability Full-time enrollment

Spirit Award

Amount \$1,500 per year

Eligibility Active member of the community by reaching out and volunteering to help others during high school**

Requirements Completed Scholarship Application, an essay that explains the work or project completed, and a letter of recommendation from a project supervisor or Faculty Advisor.*

Completed applications must be submitted to the Enrollment Center no later than June 30.

Renewability Full-time enrollment; Completion of renewability form submitted to Student Life.

Opportunity Award

Amount \$3,000 per year

Eligibility Graduate from a high school with more than one-third of the student population considered to be "low income" families (determined by the "Teacher Cancellation Low Income Directory" published by the United States Department of Education).

Renewability Full-time enrollment

* Award recipients will be determined by the scholarship committee

**In accordance with NCAA bylaw 15.2.3.4, athletic participation is not considered for the Leadership or Spirit Awards

Please Note:

- Full-time enrollment is defined as 12 or more semester hours per term.
- Scholarships are limited to a maximum of four years or eight terms of institutional awards. Awards will be finalized after submission of seventh semester/quarter grades; no revisions to merit awards will be made after the seventh semester/quarter.
- Student financial aid programs, terms and conditions are subject to change without notice or obligation.
- The Benedictine Scholars Program Award, Presidential Award, St. Benedict Award and Benedictine Eagle Award are mutually exclusive and may not be combined.

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- Institutional awards are applicable to the cost of tuition only.

Endowed Scholarships Awarded through Admissions (Freshman ONLY):

Ed and Mary Ann Allen Memorial Scholarship

This scholarship was established to assist an outstanding incoming freshman who has financial need, with preference given to a deserving and qualified graduate from Montini High School. Renewable with continuation of financial need.

Borse Family Scholarship in Leadership

Once every four years, one (1) qualified senior high school student will be granted a scholarship for his/her freshman year at Benedictine University. Student must have GPA 3.0 and demonstrated leadership roles in: a) school activities, b) church or religious organizations, and (c) civic service activities. At least two letters of recommendation are required. Also, a University selection committee may request a personal interview with any respective candidate. Renewable for sophomore, junior and senior years. Must maintain GPA of at least 3.0; demonstrate continued roles of leadership in at least two of the same areas as indicated above, and have demonstrated financial need. Scholarship renewable for three consecutive years.

The Albert R. and Mary Rita Brusek Memorial Scholarship for Freshmen Students of Recognized Potential

This scholarship was established to assist at least one qualified student, per fiscal year who is an incoming freshman at the University. This is a one-year, one-time only per student, scholarship for tuition assistance. Student must have a high school GPA 2.0, demonstrate financial need, and provide three letters of recommendation (at least one being from a teacher who has taught the student/candidate and at least one from the student/candidate's guidance counselor). Preference will be given to those candidates that can demonstrate active participation in any of the following areas: a) Civic/social organizations; b) Religious organizations; c) Theatre or Arts. It is the intent of the Founder that students selected for this scholarship be 'diamonds in the rough', where each candidate has demonstrated the 'potential' for academic achievement, leadership, character and work ethic. Although not a requirement, preference will be given to those candidates who are 'first generation' college/university applicants.

Anthony P. Castino Memorial Scholarship

This scholarship was established to assist an incoming freshman who has a high school GPA 3.0, has a demonstrated role of leadership in school service areas, church or religious organizations, or civic service activities. At least two letters of recommendation are required and a personal interview may be requested by the selection committee. Renewable to recipient for sophomore, junior, and senior years if GPA 3.0 and leadership roles continued as stated above.

Cooper Industries Endowed Scholarship in History

This scholarship was established for an incoming freshman student who has declared a History major and has financial need. Student must have 3.25 GPA, ACT of 26, and rank in the upper 20 percent of class. A recommendation letter from the student's high school history

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instructor is required. Renewable over student's academic career as long as GPA 3.25, financial need, and History major are continued as stated above.

Federal NEH Humanities Scholarship Humanities

This scholarship was established for incoming freshman students who rank in the top 20 percent of their high school class, have a composite ACT of 26, GPA 3.0 in humanities courses, and extracurricular activities which are directly involved with humanities. Renewable as long as NEH guidelines are met.

Philip F. and Lorayne M. Flynn Scholarship

This scholarship was established to assist an incoming freshman student of demonstrated financial need who will be enrolled in a full-time academic degree program at Benedictine. Student to have GPA 3.0 and two letters of recommendation required. Renewable for sophomore, junior and senior years with GPA 3.0. Scholarship will only be granted for four consecutive years.

Robert and Barbara Griesser Scholarship

This scholarship was established to assist an incoming freshman student with demonstrated financial need who will be enrolled in a full-time academic degree program at Benedictine. Student to have GPA 3.0 and submit at least one letter of recommendation. Renewable for sophomore, junior, and senior years with minimum GPA 2.50. In no event shall a student be granted this scholarship for more than four consecutive years.

Dr. James J. Hazdra Memorial Scholarship Fund

This scholarship was established for incoming freshman students who have declared Biochemistry as their major, who rank in upper-half of high school class, and have minimum ACT score of 21. Student to submit a 1-2 page essay, double spaced, on how this scholarship will assist the student. Renewable - Student must retain full-time status, Biochemistry major, and maintain cumulative GPA of 3.2.

Leo and Rose Kappel Scholarship

This scholarship was established to assist incoming students from Benet Academy. Up to three Benet students to be granted scholarship based on financial need and up to three Benet students to be granted scholarship based on non-financial need. All students required to rank in top one-third of class at the end of their junior year and all must demonstrate leadership and service to Benet Academy. Renewable for need based students as long as GPA 3.0 and continuation of leadership and service to Benedictine University.

Paul W. Meyer Scholarship

This scholarship was established to award an incoming, first-time freshman music major with emphasis on piano or organ. Renewable - Student may apply for renewal for up to three subsequent years based upon "satisfactory progress".

The Dr. Cheryl B. Richardson Scholarship Award

The primary purpose of this award fund is to establish a scholarship program to financially assist and recognize an incoming freshman, female student who is of African American heritage, who has graduated from an inner-city high school, and who has demonstrated

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financial need. Student must register as a full-time undergraduate student at Benedictine University and must complete an essay on "What College Will Mean For Me" with a copy provided to the founder.

Incoming Transfers:

Benedictine Scholars Program Award

Amount \$14,000 per year

Eligibility Awarded by the Scholars Program selection committee to a limited number of incoming students; not applicable to students in the pre-pharmacy program. Transfer students must have a maximum of 60 semester credit hours and a 3.2/4.0 cumulative GPA. Students must have completed a minimum of four years of foreign language at the high school level. Students who have earned an associate degree are not eligible. This award can not be combined with any other institutional tuition awards.

Renewability Continued participation in the Scholars Program; cumulative 3.2/4.0 GPA; full-time enrollment.

Phi Theta Kappa Award

Amount Students with a 3.51-4.00 cumulative GPA will receive a St. Benedict Award (in the amount listed below) and an additional Phi Theta Kappa Award in the amount of \$2,000.

Students with a 3.00-3.50 cumulative GPA will receive a St. Benedict Award (in the amount listed below) and an additional Phi Theta Kappa Award in the amount of \$1,000.

Eligibility Member of Phi Theta Kappa; Cumulative 3.0/4.0 GPA; Full-time enrollment.

Renewability Cumulative 3.25/4.0 GPA; full-time enrollment.

St. Benedict Award

<i>Scholarship</i>	<i>Cumulative GPA</i>	<i>Award Amount</i>
St. Benedict Award	3.75-4.00	\$11,800
St. Benedict Award	3.51-3.74	\$10,100
St. Benedict Award	3.26-3.50	\$8,400
St. Benedict Award	3.00-3.25	\$6,800
St. Benedict Award	2.75-2.99	\$3,200

Eligibility Evaluation of academic performance in college coursework; full time enrollment.

Renewability Cumulative 3.0/4.0 GPA; full-time enrollment.

Music Scholarship

Amount Up to \$4,000 per year

Eligibility Successful completion of a music audition with the Music department; declared major or minor in music.

Renewability Maintain a 3.0 GPA; enroll in at least one music course per semester with music department advisor approval; full-time enrollment.

Alumni Recognition Award

Amount Up to \$1,000 per year per parent

Eligibility Son or daughter of a Benedictine University alumnus. Parent(s) must have graduated from a Benedictine University undergraduate, graduate or doctorate degree program.

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Renewability Full-time enrollment

Out-of-State Award

Amount Up to \$5,000 per year

Eligibility Residents of a state other than Illinois who will reside on campus; FAFSA completion; financial need.

Renewability Full-time enrollment and campus resident

Sibling Recognition Award

Amount Up to \$1,500 per year maximum regardless

of number of currently or previously enrolled siblings. This award is not applicable for currently enrolled sibling(s).

Eligibility Incoming student with sibling(s) currently enrolled in the traditional undergraduate program or sibling(s) is a Benedictine University alumnus of the traditional undergraduate program.

Renewability Full-time enrollment

Chicago City Colleges Promise Award

Amount Varies based on need, minimum of \$3,000 per year.

Eligibility Benedictine is doing its part to promise the opportunity of attending a private education to students of Chicago City Colleges with the introduction of this new award. The student's current or last school of attendance must be one of the Chicago City Colleges; FAFSA completion; financial need.

Renewability Full time enrollment and financial need

Second Chance Award

Amount \$6,300 per year

Eligibility Benedictine is giving students a "second chance." Current GPA of 3.0; Incoming transfer student; Cumulative GPA too low to be considered for another merit-based scholarship.

Renewability Full time enrollment

Please Note:

- Full-time enrollment is defined as 12 or more semester hours per term.
- Final transcripts must be received no later than 30 days after the first day of the term in which you are enrolled.
- Student financial aid programs, terms and conditions are subject to change without notice or obligation.
- The Benedictine Scholars Program Award, St. Benedict Award and Phi Theta Kappa Award are mutually exclusive and may not be combined.
- Incoming sophomores: Limited to a maximum of three years or six terms of institutional awards.
- Incoming juniors: Limited to a maximum of two years or four terms of institutional awards.
- Incoming seniors: Limited to a maximum of one year or two terms of institutional awards.
- In most cases, there is a limit to institutional awards.

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- Students seeking a second degree or second major do not qualify for these scholarships.
- Students from the Benedictine University at Springfield branch campus are not eligible for these scholarships as they qualify for special tuition rates.
- Students who have a previous bachelor's, master's or doctoral degree are not eligible for these scholarships.
- Institutional awards are applicable to the cost of tuition only.

Current Undergraduate Students:

Scholarships Not Based on Major:

Richard and Lynn Becker Scholarship

This scholarship was established for full-time students with general merit and financial need.

Rose Becker Scholarship

This scholarship is for full-time students who have demonstrated academic achievement and financial need.

Bernice P. and Paul W. Brandel Scholarship Fund

This scholarship was established to assist a student who demonstrates academic achievement, outstanding character and leadership ability. Financial need may be considered.

J.F. Carroll Academic Merit Award

The following is criteria required for application:

- Student must be an Asia Institute student.
- GPA 3.0 on a 4.0 scale
- One or two letters of recommendation from faculty or staff.
- Submit an unofficial transcript (obtained from MyBenU) with their application.
- Write an essay focused on one of the following topics:
 - Tell us about your learning experience at Benedictine University and how you plan to use your learning to improve the community you live in.
 - Describe a time that you, as a volunteer, provided services to a community, an organization, or a person in need.
 - Tell us about a time when you overcame an obstacle where there was no rule or precedent to help you.

The essay should be no longer than two pages. Your essay will be judged on ideas/creativity/achievements, not on literary skills. Students also have the opportunity to list any special achievements and/or community activities that they have been involved in. *Award to be used towards tuition fees.*

Martin J. Henahan Memorial Scholarship Award

This scholarship award was established to assist a student who has financial need. Student must be involved in at least one Benedictine University organization or extra-curricular activity, must be of Irish decent, and must be of the Catholic faith.

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Edward Jochum Leadership Scholarship

This scholarship was established to assist a senior student with exceptional leadership abilities. Student must be a senior at time of scholarship disbursement and must provide proof of leadership in two of the following: School activities, Religious Organizations, Civil service activities

John L. and Helen Kellogg Scholarship

This scholarship will be awarded to students who combine academic achievement with service to the community.

Lisle Savings Bank Scholarship Award

This award was established to assist deserving students who are enrolled full-time and have financial need. Funds disbursed to only one student during the academic year, student must be sophomore, junior, or senior status and have a GPA 3.25/4.0.

James and Katherine Melsa Endowment

Student must complete application packet and obtain two faculty recommendations for this scholarship. Student must have financial need. Student must be junior or senior status when scholarship is disbursed.

Thomas J. Quinn Scholarship

This scholarship is awarded to students who show outstanding performance in school, with special consideration given to academic achievement, character, qualities of leadership and financial need.

Arthur J. Schmitt Foundation Future Leaders Scholarship Award

Available to students of sophomore status and above with GPA 3.0/4.0. Students shall submit an essay (along with supporting materials, if appropriate) describing past leadership accomplishments, leadership activity at Benedictine University, and how the student anticipates serving as a leader in the future. Essay should be 2 to 4 pages in length - double spaced. Students will still have to fill out an application and get two faculty recommendations. Student must maintain full-time status and must complete the fall and spring semesters for the 2011-2012 academic year.

Hope Award

This scholarship will be awarded to student/s who are cancer survivors or the child of someone whose life has been effected by cancer. The student must have financial need and submit a one to two page essay sharing how cancer has changed their life, the difference an award would make, and how the battle with cancer has made them a better person. Student must also fill out the application form, attach their unofficial transcripts, and obtain two faculty recommendations.

The Power N U 2 International: Etta Lee Memorial Award

Available to African American male and/or female full-time students. The student must complete a one page essay, have a GPA 2.0, provide proven volunteerism and extra-curricular activities, and will be interviewed by the selection committee. Student must

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complete the application form, attach official transcripts and obtain two faculty recommendations.

Christine Francis Rocco Memorial Endowed Scholarship

Assist female students with Italian-American heritage who demonstrate the intention to study or major in business, English or education, and have financial need.

The Muslim Alumni Endowed Scholarship

Offered to students who are full-time at Benedictine University, who have GPA 3.0, academic excellence, financial need, and leadership or service in the Muslim community. This is to be substantiated by at least one relevant letter of recommendation. Student may be awarded this scholarship only once.

College of Science Scholarships:

Allain Chemistry Scholarship

To provide an award to a student in chemistry/biochemistry/organic chemistry

The Cindy Cebrzynski Endowed Scholarship

To financially assist and recognize a student/s majoring in either Health Science or Biology.

Dr. Rose Carney Scholarship

To support a student who has exhibited an interest and ability to pursue a career as a teacher of mathematics, computer science, and/or physics.

Louis R. Chase Memorial Scholarship

To assist students majoring in Computer Science.

The Dana Corporation/Charles J. McNamara Endowed Memorial Scholarship Fund

To assist a student majoring in chemistry, computer science or environmental science.

The Edward Hospital Medical Staff Pre-med Endowed Scholarship

To financially assist and recognize deserving pre-med student(s).

The Norman A. Frigerio Memorial Scholarship

To assist freshman in Chemistry/Bio-chemistry major, who demonstrates ability to achieve success as a creative scientist.

Dr. Ernest J. Gentchos, M.D., and Friend of Benedictine University, Endowed Scholarship in the Natural Sciences

To financially assist and recognize a qualified undergraduate student who has declared a major within the Division of Natural Sciences.

The Mtanis and Ajia Haddad Memorial Scholarship in the Natural Sciences

To financially assist and recognize a qualified student, who has declared a major within the College of Sciences, specifically in the discipline of Biology or Chemistry.

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Dr. Al J. Havlik Memorial Scholarship

To assist a junior for his/her senior year who intends to enter the medical profession (pre-med student) after graduating. Based also on financial need.

William Randolph Hearst Endowed Minority Science Scholarship

Awarded to a minority student (African-American, Hispanic, Native-American, Asian) majoring in the sciences for the Minority Scholar Program Summer Research in the Natural Sciences Program. Must be a Pre-med major.

Dr. William Polk Jesse Scholarship

Awarded to sophomore, junior or senior; majoring in science, engineering or math.

Rev's. Edmund and Hilary Jurica O.S.B. Memorial Scholarship

Awarded to science student who intends, after graduation, to attend medical, dental, veterinary, optometry or podiatry school.

The Harold and Louise Kittel Memorial Scholarship

To financially assist and recognize a student, who has declared a major in Mathematics.

Gregory S. and Alice V. Kobus Family Scholarship

Provide a promising student majoring in Mathematics with a scholarship.

The Bernard J. Kurtin Scholarship

Awarded to a student studying mathematics or physics.

The PPG Industries Foundation/J. Earl Burrell Scholarship Fund Award

Awarded to student majoring in the sciences.

The Raize Software Endowed Scholarship in Computer Science

To assist a student entering their senior year majoring in computer science.

William A. Raveret Chemistry Scholarship

Awarded to a student majoring in Chemistry.

The Dr. Richard J. Remijas Memorial Endowed Scholarship for Biology Majors

Awarded to a student majoring in Biology.

The Arthur J. Schmitt Foundation Endowed Scholarship Fund

For humanities students. Divided up among various humanities majors.

The Dr. Scholl Professional Chair in Health Sciences

Provide professional development for physical science faculty.

Dr. Scholl Scholars Program

Provide scholarships to outstanding science students.

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Rev. William J. Shonka, O.S.B. Scholarship Fund

Awarded to physics, math or engineering student with minimum 30 hours completed at Benedictine University by award date.

Rev. Richard Shonka, O.S.B. Scholarship Fund

Awarded to sophomore, junior or senior majoring in computer science or mathematics.

The Paul and Ann Skvarla, and Fr. Norbert Skvarla Memorial Scholarship in the Natural Sciences

To assist and recognize a student of demonstrated financial need with a declared major in the Division of Natural Sciences.

The Gregory A. Snoke Memorial Scholarship

Awarded to a student majoring in Chemistry.

Ralph and Margaret Thompson Scholarship

Awarded to sophomore, junior, or senior Chemistry major

The Keeley L. and Madeline M. Tira and Paul J. and Mary W. Flynn Memorial Scholarship

Awarded to a student in the Physical or Natural Sciences or Mathematics

The Father Cyprian Tomecko Memorial Scholarship in the Natural Sciences

To financially assist a student who has declared a major within the Division of Natural Sciences.

The Father Cyprian Tomecko Endowment for Natural Science Lectures

The Primary Purpose of this endowment is to establish, and maintain a fund to financially assist the Natural Sciences Division at the University, for stipends for visiting professors, scholars or dignitaries who, as guest lecturers, will speak on topics related to the Natural Sciences.

The Rev. Paul Tsi Memorial Scholarship in Mathematics

Each year provide several promising students majoring in mathematics with scholarship awards.

UST Scholarship for Minority Science Students

Awarded to minority sophomore, junior or senior science and engineering students, with preference to students participating in the Hughes Scholars program.

The James and Mary Valach Memorial Endowed Chair in the Natural Sciences

This endowment assists the Chair of the Natural Sciences Division as an offset (budget relief) to his/her personal compensation at the University. Further this endowment with help fund such activities as, programs, equipment, scholarship, faculty travel and/or research, stipends for visiting professors, scholars or dignitaries, and campus events and performances.

The Frank and Annabelle M. Valach Chemistry Scholarship

Awarded to Junior and Senior students majoring in the Natural Sciences.

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The Peter K. Healey Physiology Scholarship Award

To assist students who have demonstrated a commitment in the field of Clinical Exercise Physiology.

The Dr. James J. Hazdra Memorial Scholarship Fund

Awarded to incoming freshman biochemistry majors.

The Cyprian Centennial Chemistry Endowment

To provide funds both for student research stipends primarily for summer work and supply matching monies for advanced research equipment, major repairs, or purchase of departmental instrumentation.

The Rausch Chemistry Endowment Fund

Serves as a resource to the University's Chemistry Department.

College of Liberal Arts Scholarships:

The Ginevra and Anthony Abbatiello Memorial Scholarship and Endowment

To assist students who have declared majors in music. The Endowment Program will provide financial assistance to the Director of the Music Department for such activities as recitals, concerts, guest lecturers, performers, and stipends for visiting professors

Frank and Sylvia Bicek Memorial Scholarship

To provide a political science major with a scholarship

John N. and Dorothy C. Erlenborn Scholarship

Awarded by Political Science faculty to junior/senior with intent on pursuing career in public service.

Frank and Mary Frances Flick Scholarship

Awarded to junior student (for senior year) planning to study for the ministry.

The Fr. John M. Palmer, C.S.V., Endowed Scholarship for Expenses in Applied Music

To provide funds for lab fees to students who are enrolled in a course of music study

Rev. Clement and Adolph Hrdlicka Memorial Scholarship

To encourage students to perfect their abilities to communicate in proper written and spoken English

Rev. Alban Hrebic, O.S.B. Scholarship

To assist a music major who demonstrates financial need

Fr. Michael Komechak, O.S.B. Endowed Scholarship for Young Artists

To assist students who have declared Art as a major or minor

The Lincoln Humanities Scholarship Fund

To provide scholarship assistance to those students to majoring in humanities

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The Joseph and Ann Padera and Joseph Padera, Jr. Scholarship for Religious Study

To assist a student who has firmly demonstrated the desire to eventually become a Catholic priest

The Arthur J. Schmitt Foundation Endowed Scholarship Fund - Sch-2 – Humanities

For humanities students. Divided up among various humanities majors.

The Joel Setzen Memorial Endowed Scholarship

To assist students who are majoring in the Political Science and/or Pre-Law programs

The Dr. Bernard Toussaint Endowed Benedictine Scholarship

Available for students who are pursuing a major or a minor in Philosophy

Rev. Leo Van Cura O.S.B. Memorial Scholarship

Awarded to English majors

Fine Arts Award

To assist students who have declared Art as a Major or as a minor

Komechack Award in Fine Arts

To purchase and preserve fine arts including, but not limited to paintings, sculpture, textile art, photography, etchings, drawings, films and other visual mediums.

The Scarlato Family Scholarship Award for Young Artists

To assist a student who has declared Fine Arts as his/her major

Cooper Industries Endowed Scholarship in History

Awarded to an incoming freshman who has declared a History major

Federal NEH Humanities Scholarship

Awarded to freshmen and returning students

The Paul W. Meyer Scholarship

Awarded to incoming, first-time freshman music major with emphasis on piano or organ

Roth Alumni Award

To assist a student who has declared a major in international business

The Frederick Toennigs Memorial Endowment in Music

To assist the University's Music Department in its operation and future development

College of Education and Health Services Scholarships:

The Sharon A. Arndt Memorial Endowed Scholarship for Returning Adult Education Majors

To financially assist and recognize adults who may have started college earlier and had to drop out for practical reasons such as family needs or personal financial circumstances

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The Luz and Malcolm Berd Endowed Scholarship

To recognize students who are enrolled full-time and have demonstrated a commitment to become a teacher of the Spanish language to children in grades K-12 and who have demonstrated superior academic skill indicating a promising future

The Geri Curley Endowed Scholarship in Nursing

To establish and maintain in perpetuity a scholarship program that recognizes the many student lives that were changed by Geri Curley, school nurse

The Thomas Dyba Education Division Scholarship in Leadership

To financially assist and recognize a qualified student of demonstrated financial need who has the intent and passion to become an educator and has specifically declared a major in education or a minor in education

The Margaret M. Gillett Memorial Scholarship in Education

To recognize a qualified undergraduate student of demonstrated financial need, who is has specifically declared a major in education

Bernardine M. Lanser Memorial Scholarship for Teachers

To award a second semester juniors who are seeking teacher certification. Award is for one year representing the recipient's senior year

Anthony L. LaScala Endowed Scholarship

To be awarded to full-time senior year students only seeking teaching certification with the intent to coach a sport

Sodexo International Corporation Scholarship

To recognize Sodexo's commitment to education and to nutrition

Evelyn R. Simmers Nursing Scholarship

To cover tuition and other educational fees for students within the Department of Nursing

The Jon Wolcott Leadership Endowed Scholarship

To financially assist and recognize students who plan on educating and coaching students to be leaders in and outside of the classroom

George Hajek Memorial Scholarship in Education

Award shall be open to first/and or second year Graduate students enrolled in Master of Education or Master of Arts in Education

College of Business Scholarships:

The Robert Griesser Memorial Scholarship

To assist a junior or senior student who has declared a major in a business discipline

Kapellas Entrepreneurial Scholarship in International Business and Economics

Awarded to students who major in International Business and Economics and have

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demonstrated an interest and an ability to one day establish and operate his/her own business venture

Dr. Margarete Roth Scholarship Fund

To assist students who have declared a major in International Business and Economics

Molex Endowed Scholarship for International Business

Awarded to junior or senior majoring in International Business and Economics

The National City Bank Endowed Scholarship for Business Majors

To assist a student majoring in a course of study within the College of Business

Endowment for the Ph.D. Program in Organizational Development

To assist the Ph.D. Program in Organizational Development with such activities as, programs, equipment, student scholarships, stipends for visiting professors/scholars/dignitaries, and faculty travel and/or research

The Margaret Mary Sullivan Memorial Scholarship Fund

To assist a male student with a declared major in Business

The Yaeger-Sorensen Endowed MSOB Scholarship for First Responders

To assist a student who is a first responder

African American Chamber of Commerce Award

To support students who are willing to advance the African American community

The Fr. Dismas Award in Economics

To assist a junior or senior student majoring in Economics

Roth Alumni Award

To assist a student who has declared a major in international business

Loans

Federal Perkins Loan

Source: Federal Government through Benedictine University

Eligibility: U.S. Citizens or eligible noncitizens, Demonstration of need (FAFSA)

Interest rate: 5%

Federal Direct Stafford Subsidized and/or Unsubsidized Loans

Source: Federal Direct Loan Program

Eligibility: U.S. Citizens or eligible noncitizens, Demonstration of need (FAFSA)

Registered for at least six semester hours

Fixed interest rate as set by Federal Government 8.25% cap.

Federal Direct Parent Loan Program (PLUS)

Source: Federal Direct Loan Program

Amount: Cost of education less other financial aid

Eligibility: Dependent student registered at least half-time.

Employment

Federal Work Study (FWS)

Source: Federal Government through Benedictine University

Amount: Hourly wages up to 20 hours per week

Eligibility: U.S. Citizens or eligible noncitizens, Demonstration of need (FAFSA)

University Employment

Amount: Hourly wages up to 20 hours per week

Eligibility: Registered student

Satisfactory Academic Progress Policy for Financial Aid Recipients

I. Overview

Federal regulations require that Benedictine University establish standards of Satisfactory Academic Progress for students receiving federal financial aid funds. Minimum standards of academic progress are established to encourage students to successfully complete coursework for which financial aid is received and to make progress toward a degree.

II. Financial Aid Programs Included Under this Policy

All federal and state financial aid programs are subject to this policy.

III. Students Subject to this Policy

All students currently receiving federal and/or state financial aid funds are subject to this policy. Benedictine University students who have not previously received financial aid are required to meet the cumulative grade point average requirement of this policy prior to receipt of financial aid.

IV. Satisfactory Academic Progress includes three criteria:

1. Academic standing based on the student's cumulative GPA;
2. The student's progress towards successful degree completion; and,
3. Degree completion within a maximum timeframe.

In order to maintain Satisfactory Academic Progress, students must:

1. Remain in good academic standing or on academic probation as defined in the University Catalog;
2. Maintain a completion rate of coursework equal to at least 67 percent of the total number of credit hours attempted;
3. Complete their degree requirements within 150 percent of the required hours to complete their degree (180 credit hours).

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V. Satisfactory Academic Progress Review Process

Satisfactory Academic Progress is reviewed at specified times during the award year. Academic standing (cumulative GPA), successful progression toward degree completion and maximum time frame criteria are reviewed at the end of the academic year. Students failing to meet Satisfactory Academic Progress will be notified in writing of their loss of financial aid eligibility.

Cancellation: If a student fails to meet the requirements of Satisfactory Academic Progress, the student will be ineligible for continued assistance.

Probation: If a student fails to meet the requirements of Satisfactory Academic Progress and submits an approved appeal, he/she can continue to receive Title IV aid for a specified period of time.

Reinstatement: A student may regain eligibility for financial aid once the student has met the minimum requirements of Satisfactory Academic Progress. It is the student's responsibility to contact the Office of Financial Aid to request a review of his/her Satisfactory Academic Progress for reinstatement of assistance.

VI. Appeal Procedure

Cancellation of financial aid because of a student's failure to meet Satisfactory Academic Progress may be appealed if extenuating circumstances (illness, family problems, death of a family member, etc.) led to academic difficulties. The appeal must include information explaining why the student failed to meet Satisfactory Academic Progress, and what has changed in the student's situation that would allow the student to demonstrate Satisfactory Academic Progress at the next evaluation. The student's appeal must be in writing and submitted to the Office of Financial Aid.

An appeal may be approved only if:

1. The student will be able to meet Satisfactory Academic Progress standards after the subsequent payment period, or
2. The student submits an academic plan that, if followed, will ensure that the student is able to meet Satisfactory Academic Progress standards by a specific point in time.

VII. Definitions for Financial Aid Purposes

Completion of Courses

Hours completed are based on grades of "A," "B," "C," "D" and "P." Hours with an "F" (failure), "W" (withdrawal), "I" (incomplete), "IP" (in progress) and "X" (deferred) are counted in the number of hours attempted, but not in the number of hours completed. Note: It is the student's responsibility to notify the Office of Financial Aid when an incomplete grade has been satisfactorily completed. Class repeats, transfer hours and developmental course hours are counted in the total number of hours attempted/completed.

Financial Aid Leave of Absence Policy - for Non-Traditional Students

A leave of absence is a process designed to allow students to interrupt their academic program for a limited period of time without requiring them to reapply for admission to the University. During the period of the leave, the student is considered to be on active status with the University awaiting their return to study. A leave of absence is intended for future

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courses, but may be requested while a class is in session. However, a leave of absence is not the same as a request to withdraw from a single class. Students should not use the leave of absence policy to request a withdrawal from the class in which they are currently enrolled if the intent is to remain registered in the following course of the program. The University's course withdrawal policy, which allows a student to withdraw from a course prior to two-thirds completion of the course, should be pursued in that instance.

Required Documentation

Students requesting a leave of absence must complete and sign an official Leave of Absence (LOA) form and submit it to the Office of Financial Aid to be processed no later than the student's last day of attendance in the course immediately preceding the leave. Students may request a LOA form by contacting their academic advisor. Upon completion, forms may be sent to the Office of Financial Aid by mail, fax or delivered in person. In addition to the LOA form, the student must submit a Program Schedule Change (Add/Drop) form to their academic advisor. When completing the add/drop form, students should identify the future class(es) from which they request to be withdrawn. As a general matter of policy, students may not use the leave of absence policy to request a withdrawal from classes that are in process or have already ended.

Once the Office of Financial Aid has received the Leave of Absence form, the request will be processed and notification will be sent to the student, Enrollment Services (Ben Central) and the student's academic advisor. Enrollment Services (Ben Central) will withdraw the student from any future courses identified on the add/drop form.

If unforeseen, emergency circumstances prevent a student from providing a request for a leave of absence on or before the last date of class attendance as outlined above, the Office of Financial Aid, at its discretion, may approve the LOA retroactively. If not approved, the student may submit a written, signed and dated request to his/her academic advisor with appropriate documentation that substantiates the unforeseen circumstance that prevented the student from providing a leave of absence request on or before the last day of attendance. Unforeseen circumstances may include medical and family emergencies, unexpected business travel and natural disasters. The academic advisor will submit the student's request to the Appeals Committee for approval. If approved, the student will be granted a leave of absence retroactive to the student's last date of attendance, the student will be notified by Financial Aid and the student's academic record will be adjusted accordingly. Further, if the Appeals Committee approves the student's request, no additional fees will be imposed when the student retakes the course.

Length of Approved Leave

The Office of Financial Aid may grant a qualifying student a leave of absence of up to 180 days in any 12-month period during which the student is considered on active status and no Title IV Return of Funds calculation is required. Time in excess of 180 days will not be approved.

As a matter of policy, the leave of absence period will be calculated from the student's last date of attendance. The count will be based on the number of days between the last date of

attendance (LDA) and the re-entry date. The initial LDA is used when determining the start date for the 12-month period referred to above.

Request for Multiple Leaves of Absence

The Office of Financial Aid may grant multiple leaves at different times as long as all of the leaves added together do not exceed 180 days in a 12-month period. If students request a leave of absence that would exceed this time period, they will be contacted by the Office of Financial Aid and advised that either the request is denied or the student will need to officially withdraw from the program. Students who withdraw from the program may reapply for admission to the University at a later date.

Completion of Coursework Upon Return

Title IV regulations indicate that upon the student's return from a leave of absence, the student can begin a new course. Therefore, Benedictine University extends to all students the ability to begin a new course within their academic plan.

LOA Returns Prior to the Scheduled End Date

Students, upon notification to their academic advisor, may return early from an approved leave of absence prior to the LOA end date as long as they are able to begin a new course within their program. The LOA will be shortened according to the student's return date and the 180-day limitation will be credited accordingly.

Failure to Return

If a student does not return from an approved leave of absence on the expected return date, the student will be considered as withdrawn from the University and a Return of Title IV Funds calculation will be processed.

Return of Title IV Funds

Title IV funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student withdraws prior to completing 60 percent of the payment period, the student may no longer be eligible for the full amount of Title IV funds that the student was originally scheduled to receive.

If a recipient of Title IV grant or loan funds withdraws from the University after beginning attendance, the amount of Title IV grant or loan assistance earned by the student must be determined. If the amount disbursed to the student is greater than the amount the student earned, unearned funds must be returned. If the amount disbursed to the student is less than the amount the student earned, and for which the student is otherwise eligible, he or she is eligible to receive a post-withdrawal disbursement of the earned aid that was not received.

- The amount of financial aid earned by the student is determined by calculating the number of days attended divided by the number of days in the payment period.
- Institutional breaks of five or more consecutive days, excluding LOA's, are excluded from the calculation for purposes of determining the amount of Title IV Aid earned by the student.
- Unearned aid percentage is calculated by subtracting the earned aid percentage from 100 percent.
- Institutional charges include tuition and school contracted room and board charges.

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The procedures followed when a Title IV recipient withdraws from school or requires an LOA that exceeds Federal requirements are:

- Return of Title IV funds is calculated
- Loan Servicer is notified of student's status change
- Post-Withdrawal Disbursements are identified (if applicable)
- Excess funds earned are offered to student (if applicable)
- Refunds and balance due are identified (funds must be returned no later than 30 days from the date Benedictine University determined the student withdrew).
- Exit Interview is conducted (by mail if necessary)

Refunds are applied according to the order of Return of Title IV Funds:

1. Federal Direct Unsubsidized Stafford Loan
2. Federal Direct Subsidized Stafford Loan
3. Federal Perkins Loans
4. Federal Direct PLUS
5. Federal Pell Grant
6. Federal SEOG

PROGRAM FORMATS

Traditional Undergraduate Programs

The traditional undergraduate programs include day and some evening classes held throughout the year.

Adult Accelerated Undergraduate Learning Team Programs

Our associate and bachelor's degree programs are conveniently offered through evening or weekend classes at Learning Centers in Naperville and Bellwood, in addition to a variety of locations throughout the Chicago area.

Adult accelerated undergraduate programs are offered in evening and Weekend College learning team formats. Students start at the same time, progress together as a group and take one course at a time with a set schedule for the duration of the program. The programs are based on a traditional curriculum that has been redesigned to fit the needs and schedules of today's working adults. All courses are based on adult learning principles and are delivered in a blended format that combines the most effective aspects of live instruction with self-directed Internet-based learning.

Evening classes meet one weeknight from 6:00-10:00 p.m. Weekend College classes meet every other weekend on Saturday and Sunday from 8:30 a.m.-2:00 p.m. (quantitative classes meet 8:30 a.m.-5:30 p.m.). In addition to the weekly classroom session, students complete an asynchronous 4-hour session online through Desire2Learn (D2L).

The Weekend College format affords learners the opportunity to earn a degree by attending classes exclusively on weekends at the Moser Center for Adult and Professional Studies in Naperville.

The information contained on this page is from the 2013-2014 Undergraduate Catalog and is valid until August 1, 2014.

Online Adult Accelerated Undergraduate Programs

Benedictine's online programs offer a full academic experience in a convenient and flexible format. Just as in a campus-based course, students discuss issues with peers, ask questions of instructors and have assignment deadlines to meet. Online students have access to a 24/7 help desk, an academic advisor, financial aid advisors and career services.

ACADEMIC CALENDAR

2013-2014

Master Academic Calendar

Traditional (SEM), Adult Modular (MOD) and Online Format

Undergraduate Programs

FALL 2013

August

22-24	Thur-Sat	Welcome Weekend
26	Mon	FALL SEM, MOD 1 and Online Session 1 BEGIN
29	Thur	Opening Liturgy; no SEM and MOD classes between 10:45 a.m. and 1:30 p.m.; all University offices open; end of add/drop course changes and late registration for Online Session 1.

September

1	Sun	End of add/drop course changes and late registration for 15-week classes
2	Mon	Labor Day; no SEM and MOD classes; all University offices closed.
13	Fri	Last day to file application for Spring 2014 pre-clinicals
29	Sun	MOD 1 ENDS
30	Mon	MOD 2 BEGINS; last day to file applications for Fall 2013 Teacher Education program.

October

13	Sun	Last day to withdraw from Online Session 1 classes
14	Mon	Fall Break; no SEM classes; all University offices open
15	Tues	Application for May 2014 graduation degree/certificate recipients due
20	Sun	Online Session 1 ENDS
21	Mon	Online Session 2 BEGINS
24	Thur	End of add/drop course changes and late registration for Online Session 2
28	Mon	Last day to file application for Fall 2014 Student Teaching

November

3	Sun	MOD 2 ENDS
4	Mon	MOD 3 BEGINS; Spring 2014 registration begins
17	Sun	Last day to withdraw from 15-week classes
27	Wed	No SEM and MOD classes after 6:00 p.m.
28-29	Thur-Fri	Thanksgiving Holiday; no SEM and MOD classes; all University offices closed.

December

7-13	Sat-Fri	Fall semester official final exam period
8	Sun	MOD 3 ENDS; last day to withdraw from Online Session 2 classes.
14	Sat	Commencement Convocation
15	Sun	Fall semester and Online Session 2 END
24-25	Tues-Wed	Christmas holiday; all University offices closed.
31	Tues	December degree conferral

SPRING 2014

January

1	Wed	New Year's holiday; all University offices closed.
6	Mon	MOD 4 and Online Session 3 BEGIN
9	Thur	New student orientation; end of add/drop course changes and late registration for Online Session 3.
13	Mon	SPRING SEM BEGINS
15	Wed	Application for August 2014 graduation degree/certificate recipients due
19	Sun	End of add/drop course changes and late registration for 15-week classes
20	Mon	Celebration of Rev. Dr. Martin Luther King Jr. Day; all University offices open; no SEM and MOD classes.
24	Fri	Last day to file for Fall 2014 pre-clinicals

February

9	Sun	MOD 4 ENDS
10	Mon	MOD 5 BEGINS
23	Sun	Last day to withdraw from Online Session 3 classes
24	Mon	Last day to file application for Spring 2014 Teacher Education program

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2013-2014

Master Academic Calendar

Traditional (SEM), Adult Modular (MOD) and Online Format
Undergraduate Programs

March

2	Sun	Online Session 3 ENDS
3	Mon	Summer 2014 Term Registration Begins; Online Session 4 BEGINS
6	Thur	End of add/drop course changes and late registration for Online Session 4
14	Fri	Last day to file for Spring 2015 student teaching
15	Sat	Application for December 2014 graduation degree/certificate recipients due
16	Sun	MOD 5 ENDS
17-23	Mon-Sun	Spring break; no SEM and MOD classes; all University offices open.
24	Mon	MOD 6 BEGINS
31	Mon	Fall 2014 registration begins

April

13	Sun	Last day to withdraw from 15-week classes
18-20	Fri-Sun	Good Friday, Saturday, and Easter; no SEM/MOD classes; all University offices closed.
20	Sun	Last day to withdraw from Online Session 4 classes
21	Mon	Easter Monday; MOD classes in session; no SEM classes; all University offices closed.
27	Sun	MOD 6 and Online Session 4 END
28	Mon	MOD 7 BEGINS

May

3-9	Sat-Fri	Spring term official final exam period
10	Sat	Commencement Convocation
11	Sun	SPRING SEM ENDS
26	Mon	Memorial Day; no SEM and MOD classes; all University offices closed.
31	Sat	May degree conferral

June

1	Sun	MOD 7 ENDS
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SUMMER 2014

April

28	Mon	Online Session 5 BEGINS
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May

1	Thur	End of add/drop course changes and late registration for Online Session 5
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June

2	Mon	FIRST SEM SUMMER SESSION BEGINS
9	Mon	MOD 8 BEGINS
15	Sun	Last day to withdraw from Online Session 5 classes
22	Sun	Online Session 5 ENDS
23	Mon	Online Session 6 BEGINS
26	Thur	End of add/drop course changes and late registration for Online Session 6

July

4	Fri	Independence Day; no SEM and MOD Summer classes; all University offices closed.
6	Sun	FIRST SEM SUMMER SESSION ENDS
7	Mon	SECOND SEM SUMMER SESSION BEGINS
13	Sun	MOD 8 ENDS
14	Mon	MOD 9 BEGINS

August

10	Sun	SECOND SEM SUMMER SESSION ENDS; last day to withdraw from Online Session 6 classes.
17	Sun	MOD 9 and Online Session 6 END
31	Sun	August degree conferral

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STUDENT SERVICES

Library

Benedictine University Libraries strive to provide the resources for all academic and research needs. Providing access to more than 110 databases, 200,000 books and eBooks, and helpful librarians seven days a week, we are here to assist you in person and online.

The primary mission of the Benedictine University Libraries is to provide library resources and services that support the Benedictine University community and meet its academic and research needs. In accordance with the University mission, the library also endeavors to enhance the University's Roman Catholic tradition and Benedictine heritage, the multicultural character of the campus community, and the University's commitment to assist students in becoming responsible citizens and leaders in the world community. The library will also share its resources appropriately with outside communities, including the broader academic community and local users.

Collections:

- More than 200,000 books (print and electronic)
- Access to more than 50,000 periodicals (print and electronic)
- More than 110 different databases in a variety of subject areas, most accessible from off campus
- Instructional Materials Collection - juvenile books, teacher's kits, multimedia resources, videos / DVD's, CDs
- Copies of all theses and dissertations completed at Benedictine University and George Williams College
- State of Illinois Documents Repository
- Archives and Special Collections (Appointments are not required but strongly encouraged. Call (630) 829-6064 to arrange an appointment.)

Services:

- Circulation
- Interlibrary Loan
- Reference
- Information Literacy Instruction
- Reserves
- Collection Development, Acquisitions and Technical Services

Consortium affiliations:

- Consortium of Academic and Research Libraries in Illinois (CARLI)
- LIBRAS
- AMIGOS

Lisle Campus

Student Success Center

The mission of the Student Success Center is to support students' academic, personal and

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professional development through resources and services which serve to maximize their academic success, enhance their student experience and better prepare them for further study or the workforce. The Center engages students by providing support for academic work as well as co-curricular activities and professional goals. The Student Success Center's services include:

- [Academic support](#) and tutoring functions
- [Accommodations services for students with disabilities](#)
- Advising and related support for undecided majors, students on academic probation and continuing probation
- Leadership development
- Supplemental education and service learning
- Comprehensive [career development](#) services, including assessment, internship services, career education programs, job search functions and career resources
- Orientation and continuing orientation programs

Academic Support Services: The Student Success Center provides a variety of academic support services for all student groups. These services are free of charge to all students.

Learning Specialists: Students may arrange for individual appointments with one of our two Learning Specialists. Appointments can be made by contacting the learning specialists directly, or by contacting the main office number at (630) 829-6340. Students who need remote assistance should contact the learning specialists directly.

Peer Tutors: In cooperation with the academic departments, the Student Success Center offers peer tutoring sessions for a variety of classes that are held each semester. These sessions, which take place in the lower level of the Krasa Center, help students clarify difficult concepts and prepare for quizzes and exams. They are led by instructional assistants who have successfully completed the course and have been identified by faculty members as individuals who possess both content knowledge and the ability to communicate that knowledge to fellow students. Subject areas that are typically supported by these sessions include accounting, biology, chemistry, economics, physics, psychology and the humanities. The availability of and times of tutoring sessions vary by semester.

Study Skills: The Student Success Center assists students with the development of general study skills to improve performance and reduce the stress associated with college study. This can be arranged through an individual appointment, or students can take advantage of a series of study skills workshops conducted each semester. Contact the Student Success Center at (630) 829-6340 to arrange an individual appointment for assistance.

Early Warning Notice System: The Early Warning Notice (EWN) system allows students to receive formal notice of attendance or performance issues that may impact their grade in a particular course. Notice is sent to the student's University email account and the student's advisor. The Student Success Center runs regular EWN reports for athletic teams and campus residents and provides tutoring information to students who receive EWNs in classes supported by tutoring services.

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Accommodation Services: Benedictine University is dedicated to creating an accessible environment through reasonable and appropriate accommodations for students with disabilities.

Students with a disability are encouraged to seek assistance with the [Student Success Center](#). Special accommodation services are available for students with disabilities on a case-by-case basis and provided that documentation from a properly licensed clinician supports the accommodation. Students eligible under the Americans with Disabilities Act (1990) and/or Section 504 of the Rehabilitation Act (1973), whose disability interferes with a major life activity, are urged to self identify so that the process for receiving assistance can begin as soon as possible.

Commonly granted accommodations include the following:

- Extended time for testing in a quiet test environment
- Designated note taker in class
- Modified or enlarged classroom / reading materials
- Books in alternate formats
- Preferential classroom seating

Students with questions or in need of special academic or housing accommodations should stop by the [Student Success Center](#) in Krasa (room 012) or call (630) 829-6512 to arrange proper documentation for equal access to educational and campus services.

Career Development

The Career Development Office offers comprehensive services to assist students and alumni in developing, implementing and evaluating career and life plans. Our goal is to promote personal and professional development by utilizing a holistic approach to achieve their career goals, provide them with a foundation to become self-directed learners, and educate them through the career planning process.

This mission will be accomplished through collaboration with students, alumni, faculty and employers and a commitment to empowering students and alumni to be active participants in their own career development process. Career Development is here for you not only during your journey at Benedictine, but we stay connected with you as an ongoing partnership in your journey as an alumnus of Benedictine University.

We know that sometimes life can throw a curve ball and transitions in careers happen either by choice or sometimes not our choice. Career Development offers a wide range of services to accommodate different needs, at different times for different transitional career support.

Career Development offers services from one-on-one career counseling to a wide range of virtual career services ranging from career assessments to resume assistance. We'll help you with cover letters, mock interviews, internship, job fairs, workshops, career assessments and more.

Career Development in Krasa Center – Lower Level Room 010, email career@ben.edu or call (630) 829-6040 to schedule an appointment with one of our career counselors today.

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University Ministry

University Ministry, located on the fourth floor of Kindlon Hall, celebrates the Catholic acknowledgement of the rich diversity of faiths at Benedictine University. Through our programs and services, we aim to assist Benedictine students, staff and administration in their spiritual and personal growth.

You're invited to get involved with the wide variety of opportunities we have to offer! Whether you're in need of spiritual direction, would like to use your musical talents in worship, or are seeking to learn more about your faith or others, our doors are always open.

Student Health Services

The goal of Student Health Service is to help you in maintaining an optimal level of good health and well-being. We want to see you achieve your academic, social and personal goals as a student and get the most out of your college experience.

The office is open to all registered students of Benedictine University. The hours are Monday through Friday 9:00 a.m.- 4:30 p.m. during the academic year. Students may drop in at any time. All office visits are confidential. In the event of serious illness or injury, parents or guardian will be notified at the discretion of the staff.

Services Available:

- Assessment of illness and injuries
- Family practice physician on campus once a week
- Variety of over the counter and prescription medications
- Health education resources

Student Activities

[Student Activities](#) is charged with helping students with their growth and development outside the classroom as well as assisting in the area of program content and purpose.

Student activities oversees many annual campus programs and events such as Homecoming, Springfest, Fall and Spring Quad Day. Student activities also plans special lectures, seminars and cultural events throughout the calendar year.

Residence Life

Benedictine University maintains and operates residence halls and apartments as an integral part of academic life in the belief that educational experiences are not solely contained to the classroom, laboratory or library. The residence halls and apartments provide an opportunity for students to combine academic life with social development. Students must establish and test their own values, develop social skills, determine priorities and learn to organize their time. Daily living with others encourages the development of a cooperative attitude, respect for individual rights and a sense of group responsibility. As a result, the residence halls and apartments develop diverse communities which meet the needs of its members both individually and collectively and create attitudes and skills necessary to progress toward the realization of those conditions which make up a healthy community. Benedictine University has three residence halls and the Founders' Woods Apartments.

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Athletics

Our Athletics Department prepares every student-athlete to be a champion of leadership. We establish an atmosphere where academic distinction, personal integrity, respect for all others, community service and athletic excellence are expected. We develop well-rounded and informed citizens who carry the Benedictine values now and throughout their lives.

The Department maintains the standard of graduating informed and enlightened citizens into a global society. We establish a stance of competitive leadership in the Northern Athletics Conference while consistently creating opportunities for regional and national competition. We become leaders of hospitality, stewardship and communication to all of our constituents. We create a profound sense of pride among all members, friends and fans of the Benedictine University community.

Men's Sports Teams:

1. Baseball
2. Basketball
3. Cross Country
4. Football
5. Golf
6. Lacrosse
7. Soccer
8. Indoor Track and Field
9. Outdoor Track and Field

Women's Sports Teams:

1. Basketball
2. Cheerleading and Dance Team
3. Cross Country
4. Golf
5. Lacrosse
6. Soccer
7. Softball
8. Tennis
9. Indoor Track and Field
10. Outdoor Track and Field
11. Volleyball

Dining Services

The Krassa Center Dining Commons, the Coal Ben and the Coffee Shop are managed by Sodexo Campus Services and the dining team at Benedictine University. Sodexo Campus Services and the dining team at Benedictine University strive to bring new and improved types of service.

Barnes and Noble at Benedictine University

You can purchase new or used textbooks and other required supplies from the University's bookstore, Barnes and Noble at Benedictine University. Show your school spirit with Benedictine

University apparel. The bookstore sells a variety of apparel items and offers a number of sales throughout the year. Visit ben1.bkstore.com or stop by the bookstore to see the latest styles and selections. You can contact the bookstore at (630) 829-6010 or visit us on the first floor of the Krasa Student Center.

Campus Recreation

As a Benedictine student, you are invited to take part in campus recreation opportunities. Campus Recreation encompasses a variety of activities including intramurals, group fitness classes, informal sports and adventure activities. All of these activities will give you the opportunity to connect with the University community, meet new people on campus and have fun. For questions, contact Campus Recreation at (630) 829-6107.

Benedictine Fitness Center

The Benedictine Fitness Center, opened in October 2011, provides state-of-the-art facilities for students, athletes, faculty and staff. The center has both early morning and evening hours of operation. For more information, check out the Athletics website at www.benueagles.com.

New Student Advising Center

The New Student Advising Center provides quality advising services as well as offers resources to new Freshman and Transfer students.

Transfer Guides

Transfer guides are designed to assist students in selecting courses that are transferable to Benedictine University. Students can use the transfer guides while attending a community college to ensure the courses they are taking will have a Benedictine course equivalent or be accepted as an elective.

University Police

University Police provide a number of services such as jump-starting stalled vehicles, safety escorts (between 6:00 p.m.-6:00 a.m.) and vehicle lockouts. For more information, visit the Benedictine University Police office on the lower level of the South Parking Garage.

Alumni Association

Graduating students are members of an ever-expanding organization—the Benedictine University Alumni Association. As an alumnus, the University still plays a very important role in your life. There are many ways for alumni to stay involved with Benedictine and to keep in touch with classmates. In addition, Benedictine University alumni are entitled to many special benefits. The Alumni Association is operated through the services of a volunteer governing board of directors consisting of 24 members. The function of this board is to support all alumni programs and activities through the Office of Alumni Relations. These programs include: AlumNet, a group of volunteer alumni who offer their help in mentoring new and existing students in their educational and career paths; class reunions; homecoming; admissions recruitment; the Annual President's Invitational Golf Outing; regional alumni activities; alumni chapters; and many other events both on and off campus. Contact the Alumni Association at: www.ben.edu/alumniassociation or (630) 829-6077.

Springfield Branch Campus

Disability Services

Benedictine University at Springfield strives to provide individuals with disabilities reasonable accommodations to participate in educational programs, activities and services. Students with a documented permanent or temporary disability requiring accommodations should contact Disability Services as early in the semester as possible.

Accommodations are based on each individual's documentation and circumstances. Some of the more common services granted are:

- Extended Testing Time
- Separate and quiet testing space
- Note taking assistance
- Books and materials in alternate formats
- Preferential classroom seating
- Learning Success Plan-Individualized action plan towards improved academic experience.

Disability Services works with students, faculty and other campus personnel in a cooperative and confidential effort to find appropriate solutions to each individual's special needs

Advising

Each student is assigned an advisor for academic counseling and for guidance in planning academic work. While advisors are available to assist students in all aspects of academic planning, students are responsible for knowing and meeting degree requirements and for identifying courses that are required by their intended program of study.

Athletics

Benedictine University at Springfield is a member of the NAIA and competes as a member of the American Midwest Conference. The intercollegiate program offers Baseball, Cross-Country, Golf and Soccer for Men and Cross-Country, Golf, Soccer, Softball and Volleyball for women. The athletic department recruits student-athletes- athletes who are first students. Within the department, the athletic staff and coaches work to develop athletic, social, and leadership skills in a competitive environment.

The mission of the athletic program is to educate students in habits of health and recreation and in the ideals of good sportsmanship and self-discipline. Athletics at Benedictine University at Springfield introduce and foster an element of competition with its value in the development of leadership, courage and cooperation. Athletic activities must, in all cases, be consistent with the primary intellectual and spiritual aims of the institution. We are committed to providing equal opportunities for its students in sports and recreation regardless of gender. For the most up to date schedule of Bulldog games, check out the Athletic Department website at www.ben.edu/springfield/athletics.

Campus Ministry

Campus Ministry at Benedictine University at Springfield strives to provide a variety of spiritual

opportunities for students, faculty and staff. The University welcomes students of all faiths and traditions to share their spiritual lives with other students, faculty and staff at the University. Weekly Catholic Masses are held in the Sacred Heart Chapel.

The mission of Benedictine University supports the value of community service and encourages active participation in outreach opportunities coordinated by Campus Ministry and other campus organizations. Volunteering even one hour per week makes a positive difference for agencies, individuals, families and even animals in the surrounding community. The Campus Ministry office will be happy to match your interests and talents with volunteer opportunities that conform to the mission and values of Benedictine University.

Campus Police

The Benedictine University Campus Police Department works to provide resources that ensure a safe campus environment and improve the quality of life within the University Community. The department is staffed by State certified police officers, with the same authority as municipal police and county sheriffs, including the power of arrest, who provide a full range of safety and security services. University Police can assist with by providing escorts to vehicles, access to locked vehicles, battery jumps and other services.

Career Development/Internship Placement

Development Staff can assist with all aspects of career development including choosing a major, deciding on a career path, writing a resume, locating internships and field placements, conducting a job search, preparing for interviews, finding employment after graduation, and preparing for graduate school.

Internships encourage students to develop professional skills in their chosen career field while providing them with the valuable work experience needed in an economically competitive work world. Internships can either be non-credit or credit bearing. Complete an application with career development if you are interested in participating in an internship.

Counseling Services

The Student Assistance Program (SAP) provides highly confidential and professional services to students who are experiencing personal problems. The goal of the SAP is to help students identify the nature of their problems and locate community resources that can assist in resolving them and continue pursuing their educational goals. The SAP can help students with family and relationship issues, alcohol and drug problems, stress management, adjustment issues, money problems and many more. Students can utilize the SAP services free by calling (217) 744-2255. Counselors are available by phone 24 hours a day or students can set up appointments between the hours of 8:00 am and 5:00 pm Monday through Friday.

Dining Services

A selection of meals, sandwiches and snack foods are offered through our campus dining room in Mueller Hall and at the 'Dog House' in the Student Lounge. Mueller Hall dining room serves lunch Monday through Friday and dinner Sunday through Thursday. Breakfast is available in the lower level of Dawson Hall for board students. Students can go to the cafeteria between 2:00 –

4:30 for made to order options as well. Students can purchase meals or individual items using cash, debit or credit cards or, more conveniently, by purchasing flex dollars to deposit on their BenCard. Flex Dollars can be purchased from the Student Accounts Office by calling 217-525-1420 Ext 219. Weekly menus and catering can be found on the University website at www.ben.edu/springfield.

Student Activities

Involvement in an organization during your collegiate career can help you build confidence, learn skills, make career decisions, build friendships, and develop leadership qualities. Extracurricular activities are an important part of student life on campus. Coordinated through the Student Life Office, a variety of student groups and organizations are recognized. Students are encouraged to pursue their individual social, literary, athletic, or cultural interests through these extracurricular programs. Participation is one of the best ways to meet other students and develop organization, time management, and communication skills outside the classroom. Student organizations are encouraged to become involved in the community through service or other outreach activities.

The Fitness Area

The fitness area offers a variety of options for strength and aerobic training and activities. The area is available to all members of the campus community and is free to use. The staff in the area are trained to help you utilize all of the equipment available to maximize your results.

Intramural Sports

We offer our students, faculty and staff opportunities to participate in intramural sports events. Competitive sports held in the past include foosball, pool, flag football, basketball, volleyball, and dodge ball. Seasons are scheduled to last from one day to several weeks, depending on the sport and student participation. See The Pit Staff for more information.

Residence Life

Benedictine University at Springfield offers opportunities for on-campus living because we recognize that a substantial part of your education will take place outside of the classroom, laboratory and library. Many close friendships can be developed by living in common areas and can continue long after students graduate. The residential areas are places where living and learning meet. It is there that you will meet new and different people, encounter new ideas and values, and develop your independence and a greater sense of responsibility. You'll find these areas are places where all of the elements of Benedictine University at Springfield connect.

Living in campus residence halls is more convenient than commuting and provides many more opportunities to fully engage yourself in campus activities and events. It's also less expensive than living in an apartment off campus because we are able to package all amenities, utilities, and food services that you would normally have to pay in addition to your rent, into your housing costs for the year.

Benedictine University at Springfield currently offers four residence hall options. Hanlon Hall contains single, recently renovated rooms and is reserved for women. Mueth Hall is also reserved

for men and has a limited number of 'suite' style rooms available. The recently acquired Mueller Hall is coed by floor and is the largest hall on campus. Dockson Plaza is our apartment style housing for upperclassmen students in good academic standing.

All rooms include cable access, wireless Internet access, access to student lounges/study rooms and free access to laundry facilities. To get more information on specific halls, please check out the housing brochure.

All residence areas are under the supervision of the residence life staff, comprised of Resident Assistants, Resident Manager, Maintenance Staff and the Dean of Student Affairs. The staff works to help maintain an environment for academic, personal and social development of its students. Room assignments are made based on a short question sheet on the housing checklist, and a deposit of \$300 must be placed to reserve a room. Returning students receive priority in room selection. Remaining rooms are filled on a 'first come-first served' basis.

The Resource Center

The Benedictine University at Springfield Resource Center's mission is to advance academic excellence and professional development by leading progressive initiatives aimed at cultivating active campus engagement. Academic and professional engagement goals include the following:

- To promote the advancement of academic and professional objectives by providing teaching-and-learning, tutoring, and professional-development services in a comfortable, accessible, and supportive environment;
 - To offer guidance and direction in developing professional goals, targeting lifelong learning desires, and pursuing service activities;
 - To bolster academic engagement and pedagogical enrichment by offering resources, professional development, best-practices strategies, and research-driven direction; and
 - To enhance and support the development of curricular, departmental, and campus pursuits.
- CLEP Testing, Professional Development, Learning Success Plans, Tutoring, and Disability Services are offered through the Resource Center. The space also offers computers for student use and space for group or individual study.

STUDENT COMPLAINT PROCESS

Your concerns are important to us. If you encounter a problem involving the application of a Benedictine University policy or procedure or have any other dispute with the University that you cannot resolve informally and which adversely impacts you, you may file a complaint in writing.

For purposes of this Process, a "Complaint" is an expression of dissatisfaction concerning, a University employee, department, service or process, or a University administrative action, that requires clarification, investigation and/or resolution.

Complaint Process:

- A complaint must be made in writing, preferably using the online Complaint Form at http://www.ben.edu/campus_resources/student_life_complaints_satisfaction_form.cfm.
- It is important to report complaints promptly and to include a short and concise statement of all the relevant facts and the action or remedy you are requesting so that an investigation can be completed and a resolution achieved.
- Complaints must be filed within 15 business days from the date of the action or occurrence which is the subject of the complaint.
- The Office of Student Life will assign a tracking number to the complaint and acknowledge its receipt using the contact information you have provided on the Complaint Form.
- The Office of Student Life reviews each complaint to determine if it is one upon which action should be taken. If the complaint is properly the subject of the academic or financial appeals processes, or is a question of academic discretion, the complaint will be dismissed without further action.
- The Office of Student Life refers complaints requiring further action to the appropriate academic or administrative official (typically, a Dean or Director, or another appropriate administrator whom they have designated) for investigation and resolution.
- Within 10 business days after receiving a complaint, the Office of Student Life will advise the student in writing either (a) that it has referred the complaint to an administrator for investigation and resolution, and to whom the complaint was referred, or (b) that it has dismissed the complaint and the reason for the dismissal.
- An administrator to whom a complaint has been referred has 20 business days from the date of the referral to investigate and address the complaint. During the investigation and resolution process the administrator will communicate directly with the student who has filed the complaint. At the conclusion of the investigation and resolution the administrator will notify the student and the Office of Student Life in writing of the results of the investigation and the resolution of the complaint.
- The Office of Student Life may extend the investigation period beyond 20 business days by notifying, in writing, the student who filed the complaint, using the contact information provided on the Complaint Form.
- A complaint may be dismissed without further action if the student fails to cooperate in the investigation.

NOTE: Dealing with concerns in the most direct and honest fashion should always be the first step toward resolution. Many problems are resolved when one makes an appointment with a faculty or staff member and calmly and honestly communicates their concerns.

ACADEMIC PROGRAMS

Accounting

College: College of Business

Department: Undergraduate Business

Student Type: Traditional Undergraduate and Adult Accelerated Undergraduate

Faculty:

Deborah Cernauskas, M.S., M.B.A., Ph.D., Department Chair

Charles L. Gahala, M.B.A., Ed.D., C.C.E.

Donald Henschel, M.B.A., CPA

Nona Jones, Ph. D.

Jeffrey Madura, M.B.A., CPA

Vicki Jobst, M.B.A., D.B.A., CPA

Robert Rebman, M.B.A., CPA

David Dibblee, Professor Emeritus

Objectives:

The Accounting program and courses are designed to:

1. Evaluate the role of economics and business in the social environment of our culture;
2. Articulate how the functional areas of business interrelate within organizations;
3. Improve skills in communication, analytical thinking and appreciating the human element in organizations; and
4. Develop specific skills applicable to the various aspects of the functional areas of business.

The program and major are designed to:

1. Prepare you for entry level positions;
2. Enable you to perform effectively in professional and career positions in management; and
3. Prepare you for graduate and professional study in business or management.

All students in this program will receive a thorough grounding in:

1. Economics (the theoretical basis for the discipline);
2. Mathematics and statistics (the tool subjects);
3. In the principles pertinent to all of the functional areas of business, accounting, finance, management, and marketing, in an integrated manner and with adequate focus on their international aspects; and
4. In financial and managerial accounting principles and applications, such that the formal requirements to sit for the CPA exam can be fulfilled.

The accounting major is designed so that the entire degree is available through day classes. The accounting major is also offered in time periods and formats that are designed for the needs of adult learners, offered through evening classes.

Requirements - Major:

Accounting majors must complete the University core requirements, which are partially satisfied by MGT 252 Business Ethics (which also counts as religion core) or one core approved philosophy course in ethics, MATH 105(3) or 110(3) and 115(3). Majors must complete each of the business core courses with a "C" or better: ACCT 111(3), 112(3); ECON 101(3), 102(3); FINA 300(3), MKTG 300(3), MGT 150(3), MGT 251(3) or BALT 301(3), and MGT 300(3). In addition, Accounting majors must complete CMSC 180 and CMSC 184 or ACCT 310 (Accounting Information Systems).

Accounting majors must also complete the following 200- and 300-level courses, with a "C" or better: ACCT 211(3), 212(3) and 380(3) along with three major specialization courses from the following list: ACCT 310(3), 311(3), 312(3), 313(3), 315(3). All accounting majors are encouraged to take MGT 235(3) (Business Law).

Accounting majors interested in meeting the requirements for taking the CPA examination should take: ACCT 211, 212, 311, 312, 313, 315 and 380 along with ACCT 120(1) (VITA), ACCT 215(2) (Accounting Research), MGT 252 (3) (Business Ethics) and MGT 237(3) (Business Communications).

Students in the Second Major Program that is housed outside of the department must complete the ethics, mathematics and computer science requirements for accounting majors detailed in the first paragraph of this section and complete the following courses, with a "C" or better: ECON C101(3) and C102(3); FINA 300(3), MKTG 300(3), MGT 150(3), 251(3) and 300(3), ACCT 111(3), 112(3), 211(3), 212(3) and 380(3) along with three major specialization courses from the following list: ACCT 310(3), 311(3), 312(3), 313(3), 315(3).

CLEP, life experience, work experience, internships, advance placement and other external credit do not substitute for upper-level (300) courses.

Accounting majors who elect to earn a second major in the Undergraduate Business Department must complete required unique "specialization courses" for the second business major. Specialization courses may only be used for satisfying the requirements for one business major.

The Forensic Accounting Certificate is available. This program will provide a basic core of knowledge in the Forensic Accounting field which will help students pass the examination required for professional certification.

There are four courses (12 semester hours) required for completion of the Forensic Accounting Certificate: ACCT 321 (Prerequisite: ACCT 111), ACCT 322, 323 and 324.

Requirements - Minor:

Only courses in which a student has received a "C" or better may be applied to the minor. Students are limited to one minor in the accounting, business and economics, economics, finance, international business and economics, management and organizational behavior, and marketing programs. Students (except for Bachelor of Arts in Management students) seeking a minor in accounting must complete with a grade of "C" or better 21 semester hours which must include ACCT-111(3), 112(3), 211(3), 212(3); ECON 102(3); and at least two 300-level courses in accounting.

A Bachelor of Arts in Management student seeking a minor in Accounting must complete with a grade of "C" or better the following courses and their Prerequisite: ACCT 211, ACCT 212, ACCT 311, ACCT 312, ACCT 313 and ACCT 315. A student who majors in Accounting may not earn a minor in the undergraduate business department.

Concentrations in Business Analytics, Integrated Marketing Communications, Managing Human Resources, Operations Management, Personal Financial Planning, Sports Management and Sports Marketing are available in combination with this major. Requirements listed below must be completed with a "C" or better.

Requirements - Concentration:

Business Analytics Concentration: BALT 310, BALT 320, BALT 330, and BALT 340.

Integrated Marketing Communications Concentration: MKTG 330, 331, 332, 333 and COMM 208.

Managing Human Resources Concentration: MGT 330, 334, 335 and one of MGT 235, 302 or 320.

Operations Management Concentration: MGT 333, BALT 350, INTB 340, and MGT 235.

Personal Financial Planning Concentration: FINA 220, 320, ACCT 312 and one of MGT 235 or ACCT 120 along with FINA 120.

Sports Management Concentration: MGT 305, MKTG 305 and two courses from MGT 235, 297, 301.

Sports Marketing Concentration: MKTG 305, MGT 305 and two courses from MKTG 297, 330, INTB 371.

Anthropology (Minor Only)

College: College of Liberal Arts

Department: Psychology, Sociology, Criminal Justice and M.S. in Clinical Psychology

Student Type: Traditional Undergraduate

Faculty:

James K. Crissman, Ph.D., Department Chair

Jack Thornburg, Ph.D.

Objectives:

Having completed the minor, students should have acquired the following knowledge and skills:

1. Students shall have an integrated knowledge, awareness and understanding of a culturally and biologically diverse world.
2. Students shall demonstrate an understanding of culture and society.
3. Students shall demonstrate the ability to understand complex research problems, and articulate appropriate methods and theory.
4. Students shall demonstrate an understanding of basic methods, concepts, alternative theories and approaches, and modes of explanation appropriate to each of the subfields of the discipline.
5. Students shall demonstrate an understanding of anthropological theory at an appropriate level.
6. Students shall demonstrate technical writing skills appropriate to education level.

Student Learning Outcomes: Students in the Anthropology minor will demonstrate the following competencies based on the above objectives:

1. The social, economic, historical, cultural and intellectual traditions that inform various regions of the globe
2. How to live, work, and participate in a diverse world
3. How to apply methodologies of analysis and research in anthropology in their quantitative and qualitative dimensions at a basic level
4. How to communicate within and across academic disciplines and cultures
5. How to confront moral and ethical issues facing societies and to develop a clear understanding of and commitment to personal values and beneficial change
6. How to think critically about the tension between globalizing forces and cultural identity.

Requirements - Minor:

An Anthropology minor consists of a program of courses totaling at least 21 hours, submitted to and approved by the department chair, including at least 12 hours at the 200 level or above, of which at least three hours must be at the 300 level and must be completed with a "C" or better. Students must complete ANTH 200(3), 291(3), 208(3), 210(3), and 309(3). Two elective courses (six hours): Other anthropology courses or area studies.

Bilingual Journalism

College: College of Liberal Arts

Department: Communication

Student Type: Traditional Undergraduate

Faculty:

Raphael Iglesias, Ph.D.

Luigi Manca, Ph.D.

Joaquin Montero, Ph.D.

Peter Seely, M.A., Department Chair

Beth Vinkler, Ph.D.

Objectives:

A major in Bilingual Journalism will provide students with:

1. The knowledge to produce a feature story for a magazine, a television commercial, a newsletter or brochure using InDesign, a story for a newspaper or journal, an interactive web project, a variety of media materials in Spanish, and conduct an on camera interview.
2. The ability to assemble a professional portfolio which will give students an added advantage in the work force.
3. The knowledge and insight in each aspect of the media industry as it relates to Spanish-speaking media.

Requirements - Major:

In addition to the university skills and core requirements, students must complete the following with a grade of "C" or better: BIJR-150; COMM-207, 208, 209, 254, 255, 317, 337, 353; SPAN-211, 230, 231, 305, 311, and 312. It is assumed that students have achieved proficiency in SPAN-101, 102, 201 and 202. Any major in this program will either have to demonstrate proficiency in these courses or will need to enroll in them.

Biochemistry/Molecular Biology

College: College of Science

Department: Interdisciplinary

Student Type: Traditional Undergraduate

Faculty:

Edward L. Ferroni, Ph.D., Director
Cheryl M. Mascarenhas, Ph.D., Chemistry Department
E. Michael Winkler, Ph.D., Chemistry Department
Niina J. Ronkainen, Ph.D., Chemistry Department
Timothy W. Marin, Ph.D., Chemistry Department
Preston R. Aldrich, Ph.D., Biology Department
Allison K. Wilson, Ph.D., Biology Department
Lee Ann Smith, Ph.D., Biology Department
Timothy Comar, Ph.D., Mathematics Department
Anthony DeLegge, Ph.D., Mathematics Department
Jeremy B. Nadolski, Ph.D., Mathematics Department
Peter H. Nelson, Ph.D., Physics Department
Robin Rylaarsdam, Ph.D., Biology Department

Objectives:

The biochemistry/molecular biology major is designed to:

1. Prepare students for graduate studies in cellular/molecular biology, biochemistry or genetics/genomics;
2. Prepare students for entry level research and/or careers in biotechnology and industry;
3. Prepare students for studies in medical or allied health related fields;
4. Expose students to the latest techniques in cell and molecular biology and biochemical research through courses and labs; and
5. Provide opportunities for a capstone research experience.

Requirements - Major:

The BMB major must complete with a grade of "C" or better the following courses: BIOL 197(3), 198(3), 250(3), 260(1), 340(3), 342(2), 371(3), 372(2); CHEM 113(3), 123(3), 235(4), 242(3), 244(1), 247(3), 249(1); BCHM 361(3), 362(1), 365(3); NTSC 151(1.5), 152(1.5); PHYS-205(1), 206(1), 211(4), 212(4), 323(4); MATH 207(1), 220(4), 224(4). BMB majors must also complete two science electives. One elective (3 hours) must be a physics, chemistry, computer science, mathematics or biology course numbered 200 or above (excluding all research, teaching and internship classes). The second elective may be either 3 hours of research credit (in BCHM, BIOL, CHEM, CMSC, MATH and/or PHYS) which will result in an original research project, seminar and written report or it may be a 3 hour, 300-level physics, chemistry, computer science, mathematics or biology course (excluding all teaching and internship classes). Students who plan to attend graduate school are strongly encouraged to take CHEM 313 (Thermodynamics) and to carry out a research project. BMB majors who carry out research in the summer months as a paid internship (either on or off campus) may

request to have this experience replace two credit hours of the second science elective. Such a request must be made to the BMB program director and be accompanied by a preliminary written report of the work done as well as an e-mail or letter from the student's summer mentor. Once the request has been granted, the student must enroll in one hour of BCHM 398 where he or she will complete and submit the research report to the head of the BMB program and present a formal seminar.

A student may have only one major in the biochemistry/molecular biology, biology, chemistry, environmental science, and health science programs.

Acceptance into the BMB Program:

All prospective BMB majors must complete BIOL 197, BIOL 198, BIOL 199, CHEM 113, 114 or 115, 123, 124 or 125 (NTSC 151 and 152 may replace BIOL 199, CHEM 114 or 115, and CHEM 124 or 125), and MATH 220 with a GPA of 3.20 or above and a grade of "C" or better in each of these courses; the entire introductory sequence of BIOL 197, BIOL 198, BIOL 199, CHEM 113, 114 or 115, 123, 124 or 125, and MATH 220 must be completed prior to taking BIOL 260. Transfer students will use a combination of equivalent classes (as determined by the University transfer articulation process and by the BMB program) accepted from their home institutions plus any other Benedictine University classes needed. The original grades of any repeated classes will be included in the grade point average calculation. Any other substitutions to the above list of courses will be made on a case by case basis and must be approved by the BMB program. Students who meet the above requirements will be accepted into the BMB major.

Other Information:

Why study biochemistry/ molecular biology (BMB) at Benedictine?

When you choose to major in BMB at Benedictine University, you will have the opportunity to:

1. Pursue a degree in an interdisciplinary major that emphasizes critical thinking and problem-solving skills;
2. Pursue an investigative-orientated approach to science;
3. Use advanced research instrumentation and techniques in modern laboratories;
4. Participate in a highly productive and nationally recognized undergraduate research program that has received external funding from federal agencies and the private sector;
5. Have the opportunity to use the extensive facilities in our Birck Hall of Science, and the possibility of facilities at such off-campus sites as BP Amoco, Argonne National Laboratory or Nalco, among others;
6. Prepare students to study systems biology by exposing students to the disciplines and tools of bioinformatics, genomics, and proteomics;
7. Publish and present your research findings at local, regional and national symposia;
8. Have the confidence of participating in a program that follows the guidelines of the American Society of Biochemistry and Molecular Biology (ASBMB).

What careers are available with a BMB degree?

Unlike the traditional biology or chemistry major, the biochemistry/ molecular biology program is focused on interdisciplinary education in the natural sciences. This intensive and research-oriented training prepares students for specific graduate programs that are often unavailable to the

traditional science major. These include graduate or health-career programs in biochemistry, cell and molecular biology, developmental biology, genetics, microbiology and biotechnology.

The BMB major also prepares students for entry-level research and development careers in biotechnology and industry. With biotechnology the fastest-growing field of study in the natural sciences and the University's location in the heart of the research and development corridor of metropolitan Chicago, a market exists for highly-trained undergraduates with a bachelor of science in biochemistry/ molecular biology.

How does the program work?

As a biochemistry/molecular biology major you will acquire a broad base of knowledge, represented by the university's core courses required of all students, which are invaluable to your future career development and daily interactions as citizens of your community. Within the BMB major, you will obtain proficiency in calculus, university physics, general biology and general and organic chemistry. Additional lecture courses in biochemistry, intermediary metabolism, biophysics, genetics, molecular and cellular biology will be reinforced with a consecutive series of laboratory courses in recombinant DNA, protein chemistry and genomics/bioinformatics to complete the major.

Biology

College: College of Science

Department: Biological Sciences

Student Type: Traditional Undergraduate

Faculty:

Preston Aldrich, Ph.D., Department Chair

Pedro del Corral, Ph.D., M.D.

Cheryl A. Heinz, Ph.D.

Fr. Edmund J. Jurica, O.S.B., Ph.D., Professor Emeritus†

Fr. Hilary S. Jurica, O.S.B., Ph.D., Professor Emeritus†

Lawrence F. Kamin, Ph.D.

Alfred R. Martin, Ph.D.

John Mickus, Ph.D., Professor Emeritus

Robert C. McCarthy, Ph.D.

Philip Novack-Gottshall, Ph.D.

Robin Pals-Rylaarsdam, Ph.D.

Jayashree Sarathy, Ph.D.

Lee Ann Smith, Ph.D., Assistant Department Chair

Rev. Theodore D. Suchy, O.S.B., M.S., Professor Emeritus†

Donald B. Taylor, Ph.D., Provost and Vice President of Academic Affairs

Monica Lee Tischler, Ph.D.

Allison K. Wilson, Ph.D.

Program Director, Pre-Professional Health Programs: Alice N. Sima, RN, M.S.N., M.B.A.,

Lab Coordinators: William Carvell, Ph.D, Jason Adams, M.S.

Lecturers:

Jason Adams, M.S.

Christine Beatty, Ph.D.

Jesse Biehl, Ph.D.

Pat Blaney, D.D.S.

William Carvell, Ph.D.

Vandana Chinwalla, Ph.D.

Thomas Cornwell, M.D.

Dominic Costabile, D.O.

Tanya Crum, Ph.D.

Abigail Derby, Ph.D.

Philip DuPont, M.D. Ph.D.

Jenna Eisenberg, D.C.

Peter Gallos, D.D.S.

Richard Grossberg, Ph.D.
Kathryn Kennedy, D.D.S.
Tom Knutson, M.S.
Sharon Luckhardt, O.D.
Joni Marin, M.S.
David Maze, O.D.
Elizabeth Shaffer-McCarthy, M.S.
Cody McNeely, M.S.
Greg Munie, Ph.D.
Daniel Olson, Ed.D.
Scott Padalik, M.D.
Aimee Paran, M.S.
David Piazza, M.D.
Leonard Piazza, M.D.
Mark Poch, Ph.D.
Joseph Podojil, Ph.D.
Roli Prasad, Ph.D.
Terrence Puryear, Ph.D.
Adam Reimel, M.S.
Stephen Rowley, M.D.
Nancy Schubert, D.O.
Regina Schurman, Ed.D., RCEP, CPA
Anne Marie Smith, M.S.
Veronica Stellmach, Ph.D.
Paula Tomczak, Ph.D.
Susan Yazdanmehr, M.D., M.P.H.

The Lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Research Associate: James C. VandenBerge, Ph.D.

Campus: Springfield Branch Campus

Division: Natural/Computational Sciences

Student Type: Traditional Undergraduate

Faculty:

Rick Rossetto, M.C.S., Division Chair
Gwen Baumann, Ph.D.
Torrie Buchanan, Ph.D.

Wayne Burrows, M.D.
Brian Carrigan, Ph.D.
Sylvia Fromherz, Ph.D.
David Holland, M.A.
Julia Leischner, M.A.

Program Coordinator, Pre-Professional Programs: Todd Lafrenz, Ph.D.

Objectives:

The Biology degree program is designed to:

1. Expose students to current biological issues within a liberal arts context;
2. Introduce the range of biological levels of organization - from molecular biology to organismic to population biology;
3. Expose students to current technologies to find information, demonstrate understanding of problems, identify appropriate strategies to solve problems and select proper tools and assessment to address problems; and
4. Integrate the chemical, physical and mathematical principles necessary for a more complete understanding of the primary mechanisms of biology such as heredity, evolution and development.

The *BS in Biology* is designed to prepare students for graduate study in the biological sciences, for professional study in medicine, dentistry, veterinary medicine, other biomedical specialties and related health careers as well as for careers as high school teachers. In addition, it prepares students to obtain jobs in research, pharmaceutical sales, quality assurance testing and as naturalists.

The *BA in Biology* prepares students to pursue careers in law, journalism, the environmental sector, graduate study in nursing and public health, and for jobs in pharmaceutical sales and the general work force.

The biology department also offers a variety of first-year biology courses for all University students, intended to introduce non-biologists to current issues in biology.

Acceptance into the Biological Sciences Program:

A student will gain acceptance to the Biology major through the Biological Sciences program by completing BIOL 197, BIOL 198, CHEM 113, and CHEM123 with a grade of "C" or better in each of these courses, and receiving no more than a total of three "D" or "F" grades in these courses, wherein two "W" grades count as a single "D/F" grade. The entire introductory sequence of BIOL 197, BIOL 198, CHEM 113, and CHEM123 must be completed prior to taking any 200-level courses in BIOL. A transfer student will gain acceptance by meeting these requirements through equivalent transfer courses. Additionally a transfer student must earn a GPA of 2.5 or above in all major classes (excluding labs) during the first semester at BU in order to be accepted into the Biological Sciences program.

If it is determined at any time that a student cannot gain acceptance to the Biological Sciences program or cannot graduate with a Biological Sciences degree, the student will be required to change his or her major and seek academic advising outside of that program.

Requirements - Major:

The B.S. in Biology major must complete 38 hours of biology courses with a grade of "C" or higher. A minimum of 30 semester hours in BIOL must be at the 200 level or above including nine hours at the 300 level. Coursework must include BIOL-197(3), 198(3), 199(1), 229(3), 250(3), 251(1), 340(3), 341(1), 363(3), 364(1); CHEM 113(3), 114(1), 123(3), 124(1), 242(3), 243(1), 247(3), 248(1); PHYS 113(3), 114(1), 118(3), 119(1); MATH 111(3), 207(1), 210 (4) or 220(4) or proficiency in MATH 210 or higher; BCHM 261(3) or 361(3). Majors must also complete an organismal course to be chosen from BIOL 204(3), 208(4), 249(3), 271(3), 272 (3), 275(3), 280(3) or other approved courses and a systems course to be chosen from BIOL 203(4), 228(4), 256 (3-4), 258(4), 319(4), 322(4), 325(3), 360(3) or other courses approved by program faculty, plus 7-9 additional hours of biology electives at the 200 level or above. The writing intensive courses in the major are BIOL 341 and BIOL 364.

The B.A. in Biology major consists of 66 semester hours of coursework that must be completed with a grade of "C" or better. A minimum of 22 semester hours in BIOL must be at the 200 level or above including six of the nine hours of 300 level credits required for the major. The other three hours may be a humanities course. Coursework must include BIOL 197(3), 198(3), 199(1), 201(3) or 301(3) or 313(3), 205(3), 250(3); CHEM 113(3), 114(1), 123(3), 124(1); CHEM 103(3), 104(1) or 242(3), 243(1); PHYS 107(4) or PHYS 113(3), 118(3); MATH 111(3) or proficiency in MATH 111 or higher; HUMN 220 (3), 230(3), 240(3), 250(3). Majors must complete three Humanities-Science core courses to be chosen from NTSC 210(3), PHIL 290(3), PHIL 246(3) or 248(3), RELS 225(3) or other approved courses and one additional RELS or THEO course. Two semesters of one foreign language, including Greek or Latin, is required or if proficiency is demonstrated at or above the 200 level, one additional semester of a foreign language must be completed. Majors must also complete an organismal course to be chosen from BIOL 204(3), 208(4), 249(3), 271(3), 272(3), 275(3), 280(3) or other approved courses and a systems course to be chosen from BIOL 203(4), 228(4), 256 (3-4), 258(4), 322(4), 325(3) or other courses approved by program faculty, one upper-level BIOL lab (>200 level), and a writing intensive interdisciplinary project (1). Additional electives necessary to fulfill the 66 total hours must be in BIOL or arts and humanities courses.

We encourage students to further their learning by assisting in labs. However, only two credits in BIOL 292 will count towards the BA or BS in Biology major.

Transfer students are required to take BIOL 299(1) in addition to BIOL 197, 198 (and 199 if lab credit is transferred). BIOL 299 will count as a 200-level credit in the major.

A student majoring in Biology (BA or BS) may only earn one major in the biochemistry/molecular biology, biology, environmental science, health science, physics (biological physics concentration) and medical humanities programs.

Requirements - Minor:

Students seeking a minor in biology must complete, with a grade of "C" or better: CHEM 113(3), 114(1), 123(3), 124(1); BIOL 197(3), 198(3), 199(1), and at least 15 semester hours in biology at the 200 level or above, including at least three credit hours at the 300 level.

All Chemistry courses (8 credit hours) and all Biology courses (22 credit hours) must be passed with a grade of "C" or better.

A minor in Biology is available only to students whose major is outside the Department of Biological Sciences. However, Medical Humanities majors cannot minor in Biology.

Requirements - Teaching Certification:

Students desiring to be certified to teach biology on the secondary level (grades 6-12) are to declare themselves as biology majors and education minors and register with the Benedictine University Education Program as teaching certificate candidates. Advising is then a joint responsibility of the biology and the education programs.

Students must complete the requirement for a major in biology as well as the requirements of the Teacher Certification Program in Secondary Education which includes an education minor (see Education).

Majors must complete 37 hours in biology, of which 30 hours are at the 200 level or above, including 11 hours at the 300 level, and required cognates with a grade of "C" or better. Coursework must include BIOL 197(3), 198(3), 199(1), 204(3), 208(4), 250(3), 251(1), 258(4), 292(1), 313(3) or 301(3), 340(3), 341(1), 363(3), 364(1) and three hours of 200 level or above BIOL elective; CHEM 113(3), 114(1), 123(3), 124(1), 242(3), 243(1), 247(3), 248(1); PHYS 107(4), C113(3), C114(1), C118(3), C119(1); MATH 111(3), 207(1), 210 (4) or 220(4) or proficiency in MATH 210 or higher; BCHM 261(3) or 361(3) and PHIL 290(3). The writing intensive courses in the major are BIOL 341 and BIOL 364.

Business Administration (Associate of Arts)

College: Margaret and Harold Moser College of Adult and Professional Studies

Department: Adult and Professional Studies

Student Type: Adult Accelerated Undergraduate

Campus: Springfield Branch Campus

Division: Adult Programs

Student Type: Adult Accelerated Undergraduate

Faculty: Janet Kirby, Ph.D., Division Chair

Objectives:

This program and courses are designed to:

1. Evaluate the role of economics and business in the social environment of our culture;
2. Articulate how the functional areas of business interrelate within organizations;
3. Improve skills in communication, analytical thinking and appreciating the human element in organizations; and
4. Develop specific skills applicable to various aspects of the functional areas of business.

This program is designed to:

1. Prepare you for entry level positions;
2. Enable you to perform effectively in professional and career positions in management; and
3. Prepare you for professional study in business or management.

All students in this program will receive a thorough grounding in:

1. Economics (the theoretical basis for the discipline);
2. Mathematics (the tool for the discipline); and
3. The principles pertinent to all of the functional areas of business, accounting, management, computer applications and entrepreneurship, in an integrated manner.

The Associate of Arts in Business Administration program is offered in a learning team/blended format through evening and weekend classes, as well as in a fully online format. These options provide time periods and formats designed for the needs of adult learners. Associate of Arts in Business Administration students must complete a minimum of 63 semester hours for degree completion. At least 45 of these semester hours must be through coursework at Benedictine University. The online courses are restricted to students admitted into the adult online program.

Requirements – General Education

1. Successful completion of the following basic skills courses with a grade of "C" or better: WRIT 101(3), WRIT 102(3), SPCH 110(3), and MATH 104(3).

2. Successful completion of the following liberal arts requirements: Three arts and humanities core courses, including PHIL 245(3) and at least one course from a discipline other than philosophy; two natural science core courses, with one in life sciences and one in physical sciences; three social sciences core courses, which must include PSYC 100(3) and ECON 101(3), the latter of which must be completed with a grade of "C" or better.
3. Successful completion of HUMN 220 to meet the Cultural Heritage requirement.

Requirements – Major

Associate of Arts in Business Administration students must complete the following business core courses with a grade of "C" or better in the following recommended order: MGT 110(3) which must be taken first, followed by CMSC 100(3), MGT 150(3), ECON 102(3), ACCT 111(3), ACCT 112(3), MGT 210(3), and MGT 220(3). MATH 104 must be completed prior to taking the quantitative courses, including MGT 150, ECON 101, ECON 102, ACCT 111, and ACCT 112. MGT 220 should be the last business core course taken.

Transfer Credits

Transfer credits may not be accepted after a student starts the Associates of Arts in Business Administration program. The following courses must be completed at Benedictine University: HUMN 220(3), MGT 110(3), and MGT 220(3).

Writing Assessment

The University expects all Adult Accelerated students to possess at the time of admission the appropriate writing skills that are necessary for success in the program. Therefore, all applicants are required to complete an assessment of their writing skills prior to starting their program. Students that score below a college writing level will be required to enroll in a developmental writing course and earn a grade of 'C' or better..

Business Analytics

College: College of Business

Department: Undergraduate Business

Student Type: Traditional Undergraduate

Faculty:

Deborah Cernauskas, M.S., M.B.A., Ph.D., Department Chair

Charles L. Gahala, M.B.A., Ed.D., CCE

Nona Jones, Ph.D.

Jeffrey Madura, M.B.A., CPA

Donald Henschel, M.B.A., CPA

Vicki Jobst, M.B.A., D.B.A., CPA

Objectives:

Business Core:

The Bachelor of Business Administration core courses are designed to:

1. Evaluate the role of economics and business in the social environment of our culture;
2. Articulate how the functional areas of business interrelate within organizations;
3. Improve skills in communication, analytical thinking and appreciating the human element in organizations; and
4. Develop specific skills applicable to the various aspects of the functional areas of business.

All Bachelor of Business Administration students in this program will receive a thorough grounding in:

1. Economics (the theoretical basis for the discipline);
2. Mathematics and statistics (the tool subjects);
3. The principles pertinent to all of the functional areas of business, accounting, finance, management, and marketing, in an integrated manner and with adequate focus on their international aspects; and
4. The important functional areas of management; including human resources, operations management, organizational behavior and the management process of planning, implementation and control.

Major:

The business analytics major is designed to provide students with an understanding of the foundations of business through the core business courses as well as data analysis and quantitative modeling and reasoning skills through the specialty courses of the major. Graduates of the program will have the foundational skills necessary to solve business problems and assist in achieving better business performance.

The major courses are designed to:

1. Develop the critical thinking skills enabling students to produce ad hoc business analyses.

2. Develop skills in using and interpreting the output of business analytical software programs used in industry to gain insight in solving business problems.
3. Develop the ability to apply and interpret analytical and statistical modeling methodologies in solving real world business problems.
4. Develop the ability to communicate complex problems in everyday language.

Requirements – Major:

Business Analytics majors must complete the University core requirements, which are partially satisfied by MGT 252 Business Ethics (which also counts as religion core) or one core approved philosophy course in ethics, MATH 105(3) or MATH 110(3), and MATH 115(3).

All business majors must complete CMSC 180 and one of CMSC 181 through 184 depending on the student's background. CMSC 184 is highly recommended.

Majors must complete each of the business core courses with a "C" or better: ACCT 111(3), 112(3); ECON 101(3), 102(3); FINA 300(3); MKTG 300(3); MGT 150(3), 251(3), and C300(3).

Majors must complete with a "C" or better: BALT 301(3), BALT 310(3), BALT 320(3), BALT 330(3), BALT 380(3); and two from among MGT 235(3), MGT 301(3), MGT 333(3), MGT 347(3), INTB elective at the 300 level, BALT elective at the 300 level.

CLEP, life experience, work experience, internships, advance placement and other external credit do not substitute for upper-level (300) courses.

Business Analytics majors who elect to earn a second major in the undergraduate business department must complete the unique specialization courses for the second business major. Specialization courses may only be used for satisfying the requirements for one business major. In the event that a specialization course is required for two majors, the student's academic advisor will identify an additional specialization course.

Requirements – Minor:

Only courses in which a student has received a "C" or better may be applied to the minor. Students are limited to one minor in accounting, business analytics, business and economics, economics, finance, international business and economics, management and organizational behavior or marketing. Students (except for BACHELOR OF ARTS IN MANAGEMENT students) seeking a minor in business analytics must complete with a grade of "C" or better 21 semester hours which must include ACCT 111(3); ECON 101(3); BALT 301(3), 330(3); and at least three 300-level courses in business analytics or MGT 347. A Bachelor of Arts in Management student may not minor in Business Analytics. Students who earn a major in business analytics may not earn a minor in the undergraduate business department.

Business and Economics

College: College of Business

Department: Undergraduate Business

Student Type: Traditional Undergraduate

Faculty:

Deborah Cernauskas, M.S., M.B.A., Ph.D., Department Chair

Charles L. Gahala, M.B.A., Ed.D., CCE

J. Timothy Goines, Ph.D.

Donald Henschel, M.B.A., CPA

Nona Jones, Ph.D.

Soyon Lee, Ph.D., CPA

Isobel Lobo, Ph.D.

Jeffrey Madura, M.B.A., CPA

James Zoda, Ph.D.

Vicki Jobst, M.B.A., D.B.A., CPA

Campus: Springfield Branch Campus

Division: Business

Student Type: Traditional Undergraduate

Faculty: Joana Ramsey, M.S., Division Chair

Objectives:

This program and courses are designed to:

1. Evaluate the role of economics and business in the social environment of our culture;
2. Articulate how the functional areas of business interrelate within organizations;
3. Improve skills in communication, analytical thinking and appreciating the human element in organizations; and
4. Develop specific skills applicable to the various aspects of the functional areas of business.

This program and major are designed to:

1. Prepare you for entry level positions;
2. Enable you to perform effectively in professional and career positions in management; and
3. Prepare you for graduate and professional study in business or management.

All students in these programs will receive a thorough grounding:

1. In economics (the theoretical basis for the discipline);
2. In mathematics and statistics (the tool subjects);

3. In the principles pertinent to all of the functional areas of business, accounting, finance, management, and marketing, in an integrated manner and with adequate focus on their international aspects; and
4. In the principles and practices of the major functional areas of business, finance, marketing and management.

The business and economics major is designed so that the entire degree is available through day classes. The business and economics major is also offered in time periods and formats that are designed for the needs of adult learners, offered through evening and weekend classes.

Requirements - Major:

Business and economics majors must complete the University core requirements, which are partially satisfied by MGT 252 Business Ethics (which also counts as religion core) or one core approved philosophy course in ethics, MATH 105(3) or 110(3) and 115(3). All business majors must complete CMSC 180 and one of CMSC 181 through 184, depending upon the student's background.

CMSC 184 is recommended for those students who need to develop spreadsheet skills. CMSC 181 should be taken by students who believe that they already have spreadsheet skills. ACCT 310 may be substituted for CIS/CMSC 180, 181/184, with advisor approval.

Business and economics majors must also complete, with a grade of "C" or better, ECON C101(3), 102(3), 202(3), 310(3); ACCT 111(3), 112(3); FINA 300(3); MGT 150(3), 251(3), C300(3); MKTG 300(3), one capstone course (from FINA 380, MGT 380 or MKTG 380) and at least three 300-level courses taken from ECON, FINA, INTB, MGT, or MKTG series. ACCT 311 or 312 may substitute for one of the previous 300-level courses.

Students in the Second Major Program must complete the requirements of this paragraph, and the ethics, computer science and mathematics requirements of the preceding paragraph.

CLEP, life experience, work experience, internships, advanced placement and other external credit do not substitute for upper-level (300) courses.

Business and Economics majors who elect to earn a second major in the Undergraduate Business Department must complete unique "specialization courses" for the second business major.

Specialization courses may only be used for satisfying the requirements for one business major. In the event that a specialization course is required for two majors, the student's academic advisor will identify an additional specialization course.

Requirements - Minor:

Only courses in which a student has received a "C" or better may be applied to the minor. Students are limited to one minor in the accounting, business and economics, economics, finance, international business and economics, management and organizational behavior, and marketing programs. Students (except for Bachelor of Arts in Management students) seeking a minor in business and economics must complete with a grade of "C" or better 21 semester hours which must include ACCT 111(3), 112(3); ECON 101(3), 102(3); and at least three 300-level courses in finance, international business and economics, management or marketing. A Bachelor of Arts in Management

student may not minor in Business and Economics. Students who earn a major in business and economics may not earn a minor in the undergraduate business department.

Requirements - Concentration:

Business and Economics majors must select a concentration (main campus only). Concentrations in Business Analytics, Integrated Marketing Communications, Managing Human Resources, Operations Management, Personal Financial Planning, Sports Management and Sports Marketing are available in combination with this major. Requirements listed below must be completed with a "C" or better.

Business Analytics Concentration: BALT 310, BALT 320, BALT 330, and BALT 340.

Integrated Marketing Communications Concentration: MKTG 330, 331, 332, 333 and COMM 208.

Managing Human Resources Concentration: MGT 330, 334, 335 and one of MGT 235, 302 or 320.

Operations Management Concentration: MGT 333, BALT 350, INTB 340, and MGT 235.

Personal Financial Planning Concentration: FINA 220, 320, ACCT 312 and one of MGT 235 or ACCT 120 along with FINA 120.

Sports Management Concentration: MGT 305, MKTG 305 and two courses from MGT 235, 297, 301.

Sports Marketing Concentration: MKTG 305, MGT 305 and two courses from MKTG 297, 330, INTB 371.

Requirements - Teaching Certification:

If you desire to be certified to teach business, economics, marketing and/or management in secondary schools (grades 6-12), you are ordinarily required to major in business and economics. You must complete the major in business and economics, requirements leading to an endorsement in marketing/management, and requirements for secondary education and Teacher Certification described in the Education section.

Note: If you desire to teach economics, you may also earn your certificate with a major in social science. If you graduated from Benedictine University with a major in marketing or management, you may complete requirements leading to secondary certification in marketing/management. Consult the Education Program.

Business with Science Applications

College: College of Business

Department: Undergraduate Business

Student Type: Traditional Undergraduate

Faculty: Undergraduate Business and Science Faculty

Objectives:

The Business with Science Applications major in the Undergraduate Business Department combines the B.B.A. undergraduate business degree core with the Undergraduate Science core, plus major specialization courses in science management, legal and ethical aspects, innovation and product development, quality systems, product team management, with internship and culminating capstone experience. To accomplish this, seven new specialized courses have been added, BSCI 220, 210, 220, 230, 297 and 380.

The Business with Science Applications program addresses the need for graduates who understand both science and management to launch careers in technology based businesses important to growing our national and global economy. Students acquire a broad base of knowledge, represented by the University's core courses that will prove valuable in future career development and daily life as a citizen in society. The Business with Science Application major learns the fundamentals of the economic system as it functions nationally, globally and within the corporation, the principles of accounting and managerial finance, and the principles of mathematics along with knowledge in each of the related social sciences: sociology, political science, psychology and ethics. They also learn the fundamentals of science (biology, chemistry and physics) followed by selection of one track from four high growth technology areas - biotechnology, informatics, environment or pharmaceuticals/allied health. A Faculty Advisory Group with representatives from the college of Science track students through their selected technology tracks while the College of Business faculty and staff advise and mentor the students throughout the interdisciplinary program. In addition, the specialization courses capture the management tools of today's and tomorrow's emerging technology-based businesses. These courses have been designed by external business leaders and entrepreneurs with industrial experience. Benedictine's close location to the I-88 high tech corridor facilitates internship experiences with partner companies thus preparing graduates to launch their careers in technology driven businesses or continue post-graduate studies.

Requirements - Major:

Science Core (36-38): BIOL 197 and 198/199, CHEM 113/114 and 123/124, PHYS 113 and 118, CMSC 180/181 or 184, MATH 110, MATH 111, (MATH 115 or (MATH 170/171 and MATH 200) or MATH 210/207, advanced Science Elective (8-10 hours at the 200/300 level with a required selection of 1 out of 4 tracks: biotechnology, informatics, environment and pharmaceuticals/allied health):

- Biotechnology: BIOL 208 Microbiology (4), BIOL 250 Genetics (3), BIOL 260 Recombinant DNA lab(1)

- Informatics: CMSC 200 Computer Programming (4), CMSC 205 Data Structures and Algorithms I (3), CMS 274 Object-Oriented Design and Programming (3)
- Environment: ENVS 205 Intro to Env Sci (3), ENVS 210 OSHA Haz Waste (1), ENVS 305 (3) Env.Tox (or other elective), BIO 281(1) w/ biology department chair approval.
- Pharmaceuticals/Allied Health: CHEM 103 (3) Intro to Org/Biochem, NUTR 200 Nutritional Science (3), BIOL 258 (4) Human Physiology

The following elective science courses are excluded from this major and will not be applied toward major requirements: BCHM 295, 393, 292, 397, CHEM 295, 393, CIS 396, 399, CMSC 396, 399, HLSC 390, MATH 399, PHYS 393, 396. (These are either "teaching," "internship," "practica" or "ACCA Seminar" courses.)

BIOL 229 will meet requirements for MGT 150 and MGT 251.

Business Core (27): ACCT 111/112, ECON 101/102, MGMT 150/251, FINA 300, MKTG 300, MGT 300

Major Specialization Courses (24): BSCI 200, 210, 220, 230, 297, 380 and MGT347/CIS 388

Requirements - Other:

Business with Science Application majors must complete the University core requirements, which are partially satisfied by MGT 252 Business Ethics (which also counts as religion core) or one core approved philosophy course in ethics. Transfer students which meet the core requirements, but did not take an ethics course, must take one to meet the requirements of this business major.

Chemistry

College: College of Science

Department: Chemistry

Student Type: Traditional Undergraduate

Faculty:

Edward L. Ferroni, Ph.D.
Timothy W. Marin, Ph.D., Department Chair
Cheryl M. Mascarenhas, Ph.D.
Scott C. Meyer, Ph.D.
Niina J. Ronkainen, Ph.D.
David C. Sonnenberger, Ph.D.
Kari L. Stone, Ph.D.
E. Michael Winkler, Ph.D.
James J. Hazdra, Ph.D., Professor Emeritus[†]
David J. Rausch, Ph.D., Professor Emeritus
Rev. Cyprian Tomecko, O.S.B., Ph.D., Professor Emeritus[†]

Lecturers:

Jorge Alvarado, Ph.D.
Ronald Anderson, Ph.D.
Terry Cruse, Ph.D.
Carol Fendrick, Ph.D.
Lisa Gades, M.S.
Piotr Grzyska, Ph.D.
Michael Harpham, Ph.D.
Douglas Kimball, Ph.D.
Liangchao Lin, Ph.D.
Patrick McMahon, Ph.D.
Rashmi Nanda, Ph.D.
Hermona Pandya, Ph.D.
Lisa Riedy, Ph.D.
Giselle Sandi-Tapia, Ph.D.
Richard Schraufnagel, Ph.D.
Gary Schiltz, Ph.D.
David Sikkenga, Ph.D.
John Wang, Ph.D.

The Lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

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Objectives:

Chemistry courses are designed to prepare students to:

1. Understand matter, its properties and physical and chemical changes;
2. Have a sound understanding of the traditional areas of chemistry including: analytical, physical, organic, inorganic and biochemical, and their applications;
3. Understand the laboratory methodologies in the chemical sciences;
4. Respond to a changing technological society;
5. Enter studies in professional school (medicine, dentistry, veterinary, pharmacy) and graduate school; and
6. Enter a career in industry (research, chemical business and marketing, patent law) or teaching.

Acceptance into the Chemistry Program:

A student will gain acceptance to the chemistry program by completing the introductory sequence of CHEM 113, CHEM 123, and MATH 210 with a GPA of 2.50 or above and a grade of "C" or better in each of these courses. A transfer student will gain acceptance by meeting these requirements through equivalent transfer courses. Additionally a transfer student must earn a GPA of 2.5 or above in all major classes (excluding labs) during the first semester at Benedictine in order to be accepted into the chemistry program.

If it is determined at any time that a student cannot gain acceptance to the chemistry program or cannot graduate with a chemistry degree, the student will be required to change his or her major and seek academic advising outside of that program.

Requirements - Major:

CHEMISTRY CONCENTRATION: Students must complete the following courses with a grade of "C" or better: MATH 210(4) and MATH 207(1) or 170(4) and 171(1) plus 200(4); MATH 211(4), MATH 212(4), (MATH 260(4) or MATH 300(3)); PHYS 211(4), 205(1), 212(4), 206(1).

CHEM 113(3), 115(1), or NTSC 115(1.5), CHEM 123(3), 125(1), or NTSC 152(1.5), CHEM 231(3), 232(3), 237(1), 238(1), 242(3), 244(1), 247(3), 249(1), 292(1), 313(3), 314(1), 315(3), 316(1), 320(3), 321(1), 398 (4), and two of the following advanced courses: CHEM 322, 323, 334, 335, 340, 357, 390, and BCHM 361.

An original research project and thesis must be completed. Students who satisfactorily complete these courses (assuming that BCHM 361 is one of the advanced chemistry classes taken) fulfill the requirements for American Chemical Society certification.

A student cannot major in both Health Science and Chemistry.

Requirements - Minor:

Students seeking a minor in chemistry must complete, with a grade of "C" or better: CHEM C113(3), C114(1) or C115 or NTSC 151(1.5), CHEM C123(3), C124(1) or C125(1) or NTSC C152(1.5), CHEM 231(3), 237(1), 242(3), 243(1) or 244(1), 247(3), 248(1) or 249(1) and 3 hours in a 300-level CHEM or BCHM course. No credit is given for CHEM 295 and/or 398. Biochemistry/Molecular Biology majors may not minor in chemistry.

Requirements - Teaching Certification:

Students desiring to be certified to teach chemistry on the secondary level (grades 6-12) are to declare themselves as chemistry majors and education minors and register with the Benedictine University Education Program as teaching certificate candidates. Advisement is a joint responsibility of the chemistry and education programs. Students must complete the requirements for the chemistry major, a second teaching field and Teacher Certification in Secondary Education which includes an Education minor (see Education).

CHEMISTRY MAJOR WITH EDUCATION MINOR: Students must complete the following courses with a grade of "C" or better: CHEM 113(3), 114(1) or 115(1) or NTSC 151(1.5), CHEM 123(3), 124(1) or 125(1) or NTSC 152(1.5), CHEM 231(3), 232(3), 237(1), 238(1), 242(3), 244(1), 247(3), 249(1), 313(3), 314(1), 315(3), 316(1), 320(3); BCHM 261(3); MATH 210(4), 207(1); or 170(4), 171(1) plus 200(4); 211(4), 212(4); and PHYS 113(3), 114(1), 118(3), 119(1) or PHYS 205(1), 206(1), 211(4), 212; NTSC 111(3); PHYS 107(4); PHIL 290(3); EDUC 200(1), 205(3), 215(3), 260(3), 310(3), 353(3), 354(0), 331(3), 350(0), 371(12), 206(0); and PHED 257(2).

Chinese (Mandarin) Language (Minor Only)

College: College of Liberal Arts

Department: Languages and Literature

Student Type: Traditional Undergraduate

Faculty:

Steven Day, Ph.D.

Objectives:

The minor in Chinese is designed to allow students to attain intermediate level of linguistic proficiency in the language and to acquire knowledge about China from various disciplines. Central to the liberal arts mission of Benedictine University, the program aims to foster autonomous and life-long learners able to act as globally-conscious citizens after graduation. The program also encourages travel and study abroad experiences.

Student Learning Outcomes: Minors will demonstrate at minimum an intermediate level (ACTFL standards in all four program-central skills: reading, writing, speaking, and listening. They will also demonstrate appropriate historical and cultural knowledge about China, and will situate what they have learned in global, international, and national contexts. The minor also offers students opportunities for study at various partners and locations in China (including scholarships) and for co-curricular opportunities such as the Chinese Conversation Corner, the annual Festival of Asia, International Film Week, the House of Benedict World Languages and Cultures Resource Center, and excursions to local communities and events.

Requirements - Minor:

The requirements for the minor in Chinese (Mandarin) Language include successful completion, grade of "C" or better, of the language sequence to 212 [specifically CHIN 102(4), 201(4), 202(4), 211(3), and 212(3) and of at least one of the following, CHIN 301(3) or 302(3), to total 21 credit hours. In some cases, the department may approve as a substitute for CHIN 301 or 302 an upper-level class taken through study abroad arrangements with partner programs in China but minors must have any transfer coursework approved prior to enrollment. Minors who receive placement credit for lower-level language courses according to the University policy (successful completion of the course into which they place, with a grade of "C" or better, plus approval through petition for external credit) will be awarded three credit hours per class for a maximum award of six external credit hours, and must still earn 21 hours for the minor. Minors may also opt to take three additional 3-credit courses, some of which may be cross-listed and delivered in English, for a cultural studies concentration. These may include CHIN 291, when available as a study abroad experience, and either CHIN 301 or 302 (whichever has not been counted towards the minor). Concentration courses may also include approved courses taken through study abroad arrangements with partner programs in China. None of the concentration courses may double-count for the minor.

Clinical Laboratory Science

College: College of Science

Department: Pre-Professional Health

Student Type: Traditional Undergraduate

Lecturers:

Myron E. Rubinitz, M.D.

Donna Wray, M.T. (A.S.C.P.)

The Lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Advisor: Alice N. Sima, RN, M.S.N., M.B.A.

Objectives:

The program for majors in clinical laboratory science is designed to prepare students to:

1. Carry out complex analysis in the laboratory and make fine line discriminations and correction of errors;
2. Recognize interpretation of laboratory tests and have knowledge of physiological conditions affecting test results;
3. Generate data which may be used by the physicians in determining the presence, extent and, as far as possible, the cause of disease;
4. Perform and supervise tests and procedures in the clinical laboratory in major areas of hematology, microbiology, immunohematology, immunology, clinical chemistry and urinalysis; and
5. Become a certified clinical laboratory scientist by passing the national certifying examinations.

Requirements - Major:

Students in the clinical laboratory science program must complete at least 90 semester hours with a minimum GPA of 2.8 at Benedictine University. Students **MUST APPLY** for admission to Hines V.A., our clinical educational program affiliate hospital, during their junior year. Only U.S. citizens may enter the Hines V.A. Program. The admissions process is competitive. Your senior year is a 12-month, 32-semester-hour clinical education curriculum in the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

In addition to the University graduation requirements, the student majoring in clinical laboratory science must complete the following courses: CHEM 103(3), 104(1), 113(3), 114(1), 123(3), 124(1), 235(3), 236(3); BIOL 197(3), 198(3), 199 (1), 208(4), 250(3), 258(4), 340(3) and 354(3); MATH 111(3) or proficiency in MATH 111(3) or higher; PHYS 113(3), 114(1), 118(3), and 119(1); MGT 150(3), 300(3);

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CMSC 180(2) and CMSC 182(1); and PHIL 240(3). All of the following CLSC courses must be completed with a grade of "C" or better: CLSC 390(5), 391(6), 392WI(8), 393(3), 394(4), 395(2), 396(2), 397(2).

* A student who plans to attend graduate or professional school should take CHEM 242(3), 243(1), 247(3), 248(1); and BCHM 361(3).

Clinical Life Science (Perfusion Technology)

College: College of Science

Department: Pre-Professional Health

Student Type: Traditional Undergraduate

Advisor: Alice N. Sima, RN, M.S.N., M.B.A.

Objectives:

The 3+2 program between Benedictine University's Clinical Life Science Bachelors of Arts degree (BA) and Rush University's Masters of Science (MS) degree in Perfusion Technology is uniquely designed to prepare students to:

1. Provide services for venovenous bypass for liver transplantation; isolated limb or organ chemotherapy perfusion; cardiopulmonary bypass-supported cardiac catheterization procedures; extracorporeal membrane oxygenation; and blood salvaging for orthopedic or general surgery procedures.
2. Apply management techniques as they relate to the hospital perfusion department.
3. Research and collaborate on projects with physicians and researchers.
3. Become certified as a clinical perfusionist (CCP) by the American Board of Cardiovascular Perfusion.

ACCREDITATION

The Rush University Perfusion Technology program is fully accredited by the Accreditation Committee for Perfusion Education (AC-PE) of the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

Requirements - Major:

When students major in Clinical Life Science Perfusion Technology at Benedictine University, they will follow a three year sequence of liberal arts and science courses. Students are required to maintain a grade point average of 3.0 or higher. Before March 1 of the Junior year, students must apply to Rush University's two year Master of Science program. Acceptance into the program at Rush University is not automatic and requires application. Successful completion of the entire 3+2 program results in a Bachelor of Arts degree from Benedictine University and a Master of Science degree from Rush University.

Students majoring in Clinical Life Sciences (Perfusion Technology) must complete the following courses with a grade of "C" or better at Benedictine University:

MATH 111(3); PHIL General Ethics(3); CHEM 113(3), 114(1), 123(3), 124(1), 103(3), 104(1);
MATH 150(3) or BIOL 229(3); BIOL 197(3), 198(3), 199(1), 203(4), 250(3), 258(4), 251(1) or 259(1);
PHYS 113(3), 114(1), 118(3), 119(1).

Students who may wish to attend professional school or graduate schools should take CHEM 242 (3), 243(1), 247(3), 248(1) and BCHM 361 (3 hours).

In order to achieve the necessary requirements for the Bachelors of Arts degree in Clinical Life Science (Perfusion Technology) from Benedictine University, credits from the Perfusion Technology Concentration at Rush University must be transferred. Students must complete the following courses with a grade of "C" or better at Rush University: HSM 510 (1.33), 523(2); NUR 510(2), PHY 551(2.67), 552(1.33); PRF 501(2), 502(3.33), 503(3.33), 510(2), 511(3.33), 521(2), 523(2), 541(2), 551(1.33).

An additional year is then completed at the Masters level at Rush University to complete the requirements for the Masters of Science degree. Requirements for the second year of the Master's program at Rush University can be found at www.rushu.rush.edu/perfusion.

A student majoring in Clinical Life Sciences may only earn one major in the biochemistry/ molecular biology, biology, chemistry, environmental science, health science, physics and medical humanities programs.

Clinical Life Science (Respiratory Care)

College: College of Science

Department: Pre-Professional Health

Student Type: Traditional Undergraduate

Advisor: Alice N. Sima, RN, M.S.N., M.B.A.

Objectives:

The 3+2 program between Benedictine University's Bachelors of Arts (B.A.) in Clinical Life Science and Rush University's Masters of Science (M.S.) degree in Respiratory Care is uniquely designed to prepare students to:

1. Provide care for a diverse patient population, from newborns and children to adults and the elderly.
2. Provide patient assessment, care plan development and respiratory care protocol administration
3. Provide critical care, including airway care, ventilatory support, physiologic monitoring and advanced life support
4. Provide perinatal and pediatric respiratory care
5. Provide cardiopulmonary diagnostics and pulmonary function testing
6. Provide patient education, pulmonary rehabilitation and disease management
7. Pass the advanced examinations for registered respiratory therapists given by the National Board for Respiratory Care.

ACCREDITATION

Rush University respiratory care programs hold a letter of review from the Commission on Accreditation for Respiratory Care. This status allows enrollment of students and ensures that all students who complete the program are eligible for the examinations given by the National Board for Respiratory Care and state licensure in Illinois. Contact information for the Commission on Accreditation for Respiratory Care is as follows: 1248 Harwood Rd., Bedford, TX 76021, (817) 283-2835 or www.coarc.com.

Requirements - Major:

When students major in Clinical Life Science Respiratory Care at Benedictine University, they will follow a three year sequence of liberal arts and science courses. Students are required to maintain a grade point average of 3.0 or higher. Before March 1 of the Junior year, students must apply to Rush University's two year Master of Science program. Acceptance into the program at Rush University is not automatic and requires application. Successful completion of the entire 3+2 program results in a Bachelor of Arts degree from Benedictine University and a Master of Science degree from Rush University.

Students majoring in Clinical Life Sciences (Respiratory Care) must complete the following courses with a grade of "C" or better at Benedictine University:

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MATH 111(3); PHIL General Ethics(3); PSYC 100(3); CMSC 180(2); CMSC 183(1); CHEM 113(3), 114(1), 123(3), 124(1); MATH 150(3) or BIOL 229(3); BIOL 197(3), 198(3), 199(1), 203(4), 208(4), 258(4), 259(1); PHYS 113(3), 114(1), 118(3), 119(1).

Students who may wish to attend professional school or graduate schools should take CHEM 242 (3), 243(1), 247(3), 248(1) and BCHM 361 (3 hours).

In order to achieve the necessary requirements for the Bachelors of Arts degree in Clinical Life Science (Respiratory Care) from Benedictine University, credits from the Respiratory Care Concentration at Rush University must be transferred. Students must complete the following courses with a grade of "C" or better at Rush University: RC 511(3.33), 512(3.33), 513(3.33), 521(3.33), 522(3.33), 523(2.67), 524(2), 531(3.33), 532(3.33), 533(3.33), 534(1.33); HSM 510(1.33).

An additional year is then completed at the master's level at Rush University to complete the requirements for the Masters of Science degree. Requirements for the second year of the master's program at Rush University can be found at www.rushu.rush.edu/respiratorycare.

A student majoring in Clinical Life Sciences may only earn one major in the biochemistry/ molecular biology, biology, chemistry, environmental science, health science, physics and medical humanities programs.

Communication Arts

College: College of Liberal Arts

Department: Communication

Student Type: Traditional Undergraduate

Faculty:

Christopher Birks, M.A.

Luigi Manca, Ph.D.

Peter B. Seely, M.A., Department Chair

Lecturers:

John Madormo, B.A.

Kaleshia Page, M.A.

Diane Rzeszewski, M.F.A.

Hernice Smith, M.A.

Melanie Thillens, M.A.

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Campus: Springfield Branch Campus

Division: Arts and Letters

Student Type: Traditional Undergraduate

Faculty: David Logan, M.A., Division Chair

Objectives:

Courses in communication arts are designed to:

1. Prepare graduates for careers in advertising, electronic and print media, journalism, public relations, publishing, writing or other careers requiring sophisticated communications skills;
2. Prepare graduates for continued study in graduate or professional school;
3. Develop the student's critical and imaginative thinking, reading and writing skills;
4. Develop skills to empower the student to communicate ideas effectively, through speaking, writing and the use of technology;
5. Develop skills for critical interpretation of the media;
6. Foster aesthetic understanding in both production and interpretation of media texts;
7. Develop knowledge of the methods to make responsible social and personal decisions;
8. Develop primary and secondary research methodologies;

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9. Develop an understanding of the history, structure and operation of the mass media;
10. Provide an understanding of the impact of mass media industries and messages on the individual, society and culture;
11. Develop professional-level skills in written and oral communication for a variety of media and audiences;
12. Develop professional-level production skills for both print and electronic media;
13. Encourage the development of creative expression; and
14. Help the student develop a professional media portfolio.

Requirements - Major:

Students majoring in communication arts must complete at least 42 hours within the department with a grade of "C" or better, including: COMM 150(3), 207(3), 208(3), 209(3), 235(3), 253(3), 254(3), 255(3), 317(3), 393(3), one 300-level theory course from: COMM 385(3), 386(3), 388(3), 390(3), one 300-level applied course from: COMM C316(3), 337(3), 353(3), and 381(3), at least one 300-level communication arts elective (theory or applied) and one 200-or 300-level COMM arts elective. No more than three internship credit hours may count toward the major. Students majoring in communication arts will need to submit a portfolio of their work in advertising, journalism, multimedia, public relations and video, prior to graduation. Through working with advisors, majors will be guided in the selection of courses both within and outside the department in order to plan a program of studies tailored to their individual educational and career goals.

Communication Arts major for pre-law students: While stating that no single major is recommended for admission to law school, the "Statement on Prelegal Education of the Association of American Law Schools" emphasizes the absolute necessity for the "need to master, at the undergraduate level, advanced writing skills and effective oral communication. Lawyers must be able, in drafting instruments, to convey meaning clearly and effectively. In oral and written advocacy he or she must be capable of communicating ideas convincingly and concisely ... Truly, the law-trained man or woman, to perform effectively the tasks expected, must be a precisionist in the use of language".

Students interested in law school who choose communication arts as a major are advised to take, in addition to their major requirements, the following courses, some of which may be applicable to divisional core requirements: PHIL 260 or 355(3) and a history course, ECON 101(3), ACCT 111(3), PLSC 202(3), MGT 150(3), CMSC 120(3), BIOL 197(3) or 198(3), and BCHM 100(3).

Requirements - Minor:

A minor in communication arts consists of at least 21 hours in communication arts courses with a grade of "C" or better, including: COMM 207(3), 209(3) or 254(3), 317(3), and an additional three credit-hour communication arts course at the 300 level.

Requirements - Concentration:

The communication arts program offers areas of focus in (1) journalism, (2) broadcasting and cable, (3) advertising and public relations and (4) mass media theory and criticism, plus a concentration in sports journalism. There is also a Sports Communication concentration that consists of all of the above major requirements (except COMM 150 and COMM 263), plus COMM 264, 265, and 297 and MGT 205.

Computer Information Systems

College: College of Science

Department: Computer Science and Information Systems

Student Type: Traditional Undergraduate

Faculty:

Eileen G. Clark, M.S.

Ralph D. Meeker, Ph.D.

Daniel E. Nohl, Ph.D., Department Chair

Lawrence J. Pollack, M.S.

Fr. Richard E. Shonka, O.S.B., M.S., Professor Emeritus†

Lecturers:

Grace Nijm, Ph.D.

Petre Turcu, D.S.

The Lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Objectives:

The discipline of information systems is concerned with the organizational foundations of systems and their emerging strategic role, specifically:

1. The technical foundations of information systems, including hardware, software, storage and telecommunications technologies that comprise the organization's information technology infrastructure; and
2. The role of information systems in redesigning organizations, including reengineering of critical business processes and in enhancing management decision-making.

General education courses in information systems are designed to introduce a student to the specific technical skills needed to make effective use of information technology.

The program for majors is designed to produce graduates equipped to function in entry-level information systems positions with a basis for continued career growth. Graduates are expected to interact more effectively with clients and to work effectively in teams. Graduates will have good written and oral communication skills. They will also be prepared to enter graduate programs in information systems or in related disciplines.

The information systems curriculum falls into four sets of courses.

1. General courses in information systems

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2. Courses in specialized information technology and application design:
 - a. computer programming, data structures, object oriented design and analysis, computer organization and architecture
 - b. data storage and management
 - c. database design
 - d. computer networks and data communications
3. Courses in application development and project management
4. Business foundations:
 - a. accounting, economics and finance
 - b. management and marketing
 - c. mathematics and statistics

Acceptance into the Computer Information Systems Program:

A student will gain acceptance into the Computer Information Systems program by completing the introductory sequence of MATH 210, 211, 212 with a GPA of 2.50 or above and a grade of "C" or better in each of these courses. A transfer student will gain acceptance by meeting these requirements through equivalent transfer courses. Additionally a transfer student must earn a GPA of 2.5 or above in all major classes (excluding labs) during the first semester at BU in order to be accepted into the Computer Information Systems program.

If it is determined at any time that a student cannot gain acceptance to the Computer Information Systems program or cannot graduate with a Computer Information Systems degree, the student will be required to change his or her major and seek academic advising outside of that program.

Requirements - Major:

The computer information systems major must complete a minimum of 29 hours of computer information systems courses numbered 180 or above, including 12 hours at the 300 level, 15 hours in business courses and ten hours of computational courses. Required computer information systems courses are: CIS 180(2), CIS 181(2), CIS 200(4), CIS 205(3), CIS 220(3), CIS 264(2), CIS 274(2), CIS 330(3), CIS 376(3) and CIS 398(3). CIS 396, CIS 397 and CIS 399 do not count towards major credit.

Required business courses include ACCT 111(3), 112(3), ECON 101(3) or ECON 102(3), MGT 347, and one of the following three courses: FINA 300(3) [ECON 101(3) recommended], MGT 300(3) [ECON 101(3) recommended], and MKTG 300(3) [ECON 102(3) recommended].

Required computational courses include: MATH 115(3), MGT 150(3) and MATH 240(4). Grades of "C" or better are required to apply information systems, business or computational courses toward the degree.

A student cannot major in both Computer Information Systems and Computer Science.

Requirements - Minor:

Students seeking a minor in information systems must complete, with a grade of "C" or better: MATH 240(4) and at least 17 hours of computer information systems coursework, including

CIS 180(2), CIS 181(2), CIS 200(4), CIS 205(3) and CIS 274(2). One course must be at the 300 level.

A Computer Science major is not eligible for a minor in Information Systems.

Computer Science

College: College of Science

Department: Computer Science and Information Systems

Student Type: Traditional Undergraduate

Faculty:

Eileen G. Clark, M.S.

Ralph D. Meeker, Ph.D.

Daniel E. Nohl, Ph.D., Department Chair

Lawrence J. Pollack, M.S.

Fr. Richard E. Shonka, O.S.B., M.S., Professor Emeritus†

Lecturers:

Grace Nijm, Ph.D.

Petre Turcu, D.S.

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Objectives:

Computer Science deals with the systematic study of algorithms and data structures, specifically:

1. Their description and use in application
2. Their software and hardware implementation; and
3. Their formal properties

General education courses in computer science are designed to introduce the student to the skills needed in order to use computers as technical tools. The program for majors is designed to:

1. Provide solid foundations in:
 - a. Problem-solving, algorithm development and computer programming
 - b. The scientific principles which underlie the discipline of computer science
 - c. The mathematical theory needed for computer science
2. Develop strong oral and written communication skills
3. Provide electives in:
 - a. Applications appropriate to the programmer/analyst
 - b. Scientific and technical applications
 - c. The basic study of the theory and applications of computers
 - d. Emerging developments in computer science

Acceptance into the Computer Science Program:

A student will gain acceptance into the Computer Science program by completing the introductory sequence of MATH 210, 211, 212 with a GPA of 2.50 or above and a grade of "C" or better in each of these courses. A transfer student will gain acceptance by meeting these requirements through equivalent transfer courses. Additionally a transfer student must earn a GPA of 2.5 or above in all major classes (excluding labs) during the first semester at BU in order to be accepted into the Computer Science program.

If it is determined at any time that a student cannot gain acceptance to the Computer Science program or cannot graduate with a Computer Science degree, the student will be required to change his or her major and seek academic advising outside of that program.

Requirements - Major:

The computer science major must complete a minimum of 38 hours of computer science courses numbered 180 or above, including 18 hours at the 300 level. Required courses are CMSC 180(2), CMSC 181(2), CMSC 200(4), CMSC 205(3), CMSC 220(3), CMSC 270(3), CMSC 264(2), CMSC 274(2), CMSC 330(3), CMSC 375(3) and CMSC 398(3). CMSC 396, CMSC 397 and CMSC 399 do not count towards major credit. Computer science majors must also complete a computational requirement of MATH 240(4) and two of the following computational courses: MATH 115(3), MATH 150(3), MATH 170(5), MATH 200(4), MATH 210(5) or MATH 211(4).

Grades of "C" or better are required to apply computer science or computational courses toward the degree.

A student cannot major in both Computer Science and Computer Information Systems.

Requirements - Minor:

Students seeking a minor in computer science must complete, with a grade of "C" or better: MATH 240(4) and at least 17 hours of computer science coursework, including CMSC 180(2), CMSC 181(2), CMSC 200(4), CMSC 205(3) and (CMSC 270(3) or CMSC 274(2)). One course must be at the 300 level.

A Computer Information Systems major is not eligible for a minor in Computer Science.

Criminal Justice

College: College of Liberal Arts

Department: Psychology, Sociology, Criminal Justice and M.S. in Clinical Psychology

Student Type: Traditional Undergraduate

Faculty:

James Crissman, Ph.D., Department Chair
Jane Boumgarden, M.S.W., L.C.S.W., A.C.S.W.
Joel Ostrow, Ph.D.
Patrick Polasek, Ph.D.
Tammy Sarver, Ph.D., J.D.

Lecturers:

Jim Ryan, Benedictine University Distinguished Fellow

Campus: Springfield Branch Campus

Division: Humanities/Social Sciences

Student Type: Traditional Undergraduate

Faculty: Patricia Giacomini, M.A., M.S., Division Chair

Objectives:

To provide a well-rounded, liberal arts academic preparation for students who wish to work in the areas of law enforcement, probation and parole, the judicial system, or attend law school to become a criminal law attorney. The primary objectives of the program include the development of critical thinking, communication, technology and computing skills, qualitative reasoning, ethical decision making, and an understanding of diversity.

Through this program, students will:

Acquire, understand, and synthesize knowledge pertaining to the legislative, law enforcement, judicial, and correction components of the criminal justice system, as well as acquire a knowledge of the various theories concerning the criminal justice system.

Learn research methodology in order to apply it to questions of crime commission, law creation, law enforcement, the adjudicatory process, and the correctional process, as well as the test of criminological theory.

Communicate effectively within and across all components of the criminal justice system.
Understand the nature of evidence and how to evaluate it.

Solve problems independently and cooperatively, and understand the importance of ethical behavior within the criminal justice system.

Requirements – Major:

Criminal Justice major must complete: PLSC 102 (3), PLSC 201(3), CJUS 206(3), , CJUS 250, CJUS 351(3), CJUS 390(3), CJUS 395(3), SOCL 356(4); one of the following – PLSC 205(3), PLSC 230(3), CJUS 322(3), or PLSC 237(3); one of the following: PLSC 215(3) [must contain emphasis on international crime, and may require additional assignment to receive credit in the Criminal Justice major], PLSC 218(3), or PLSC 251(3) [must contain emphasis in policy relating to crime and crime reduction]; four of the following - CJUS 206(3), CJUS 233(3), CJUS 240(3), CJUS 243(3), CJUS 294(3), CJUS 306(3), CJUS 324(3), CJUS 326(3), CJUS 330(3), CJUS 331(3), CJUS 371(3), CJUS 372(3), SOCL 205(3), SOCL 270(3), or SOCL 321(3).

Each major course must be completed with a grade of "C" or better. In addition, major must complete ANTH 200(3) to meet the Anthropology/Political Science core electives requirement and an Ethics course to meet the Philosophy core electives requirement.

Diagnostic Medical Sonography

College: College of Science

Department: Pre-Professional Health

Student Type: Traditional Undergraduate

Administrators: Alice N. Sima, RN, M.S.N., M.B.A.,

Lecturers:

Lena Gabriel, M.D., Medical Director,- Northwestern Memorial Hospital
Casey Clarke Program Director - Northwestern Memorial Hospital

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Objectives:

The diagnostic medical sonography curriculum is designed to provide the student with a comprehensive body of knowledge and the necessary skills expected of a competent program graduate. The curriculum includes didactic instruction that provides learning experiences to enhance understanding and performance of clinical responsibilities.

A bachelor's degree in diagnostic medical sonography prepares students to:

1. Obtain and record an accurate patient history;
2. Perform diagnostic procedures and obtain diagnostic images;
3. Analyze technical information;
4. Use independent judgment in recognizing the need to extend the scope of a procedure according to diagnostic findings;
5. Provide an oral or written summary of the technical findings to the physician for medical diagnosis;
6. Provide quality patient care; and
7. Collaborate with members of the health care team.

Requirements - Major:

Students majoring in diagnostic medical sonography will complete the first years of course work at Benedictine University. Students should complete all college graduation requirements during these three years, while maintaining a grade point average of 2.8 or above. In the junior year, students must apply to Northwestern Memorial Hospital for the clinical education. The admissions process is competitive. During senior year, students will complete an 18-month, 45 semester-hour clinical education curriculum at Northwestern Memorial Hospital. A certificate of qualification as a diagnostic medical sonographer will be awarded when students complete this program.

Students majoring in diagnostic medical sonography must complete the following courses: MATH 111(3); CMSC 180(2), 182(1); a core approved philosophy ethics course(3); HLSC 291(2), CHEM 113(3), 114(1), 123(3), 124(1); MGT 150(3); BIOL 197(3), 198(3), 199(1), 203(4), 250(3), 251(1), 258(4); PHYS 113(3), 114(1), 118(3), 119(1). In addition, the following courses must be completed with "C" or better: DMSC 301(3), 302(1), 303(2), 304(4), 305(3), 306(2), 307(3), 308(4), 309(2), 310(3), 311WI(3), 312(2), 313(1), 314(3), 315(1), 316(2), 317(4), 318(2).

Economics

College: College of Business

Department: International Business and Economics

Student Type: Traditional Undergraduate

Faculty:

J. Timothy Goines, Ph.D., Department Chair

Soyon Lee, Ph.D., CPA

Isobel Lobo, Ph.D.

Margaret Roth, Ph.D., Professor Emeritus

Objectives:

The program and courses are designed to:

1. Help students think clearly and analytically about the U.S. economy in particular, and the global economy in general, within the context of socio-economic, cultural, and political institutional structures;
2. Develop students' critical thinking and problem-solving skills that, combined with the theory and techniques of Economics, will give Economics majors the flexibility to perform in a variety of professions and careers; and
3. Prepare students to be actively involved in economic, social, and political issues of the day.

The program and major are designed to:

1. Prepare you for entry level positions in economics and business. Majors find careers in government departments, economic and market research, consulting, banking, finance, and other business;
2. Enable you to perform effectively in professional and career positions in management; and
3. Prepare you for graduate and professional study in economics or business.

All students in this program will receive a thorough grounding in:

1. Economics (the theoretical basis for the discipline);
2. Mathematics and statistics (the tool subjects);
3. The principles of accounting.

Requirements - Major:

Economics majors must complete the University core requirements, and MATH 210(4), 207(1) and are strongly encouraged to complete MATH 211(4), 212(4), and either MATH 260(4) or 300(3).

Economics majors must also complete, with a grade of "C" or better, ECON 101(3), 102(3), 201(3), 202(3), 251(3); ACCT 111(3), 112(3); MGT 150(3); and five 300-level courses from ECON 306(3), 310(3), 320(3), 331(3), 340(3), 360(3), 370(3). Economics majors must also complete a senior paper in their last semester in residence, under the direction of their academic advisor. CLEP, life experience, work experience, internships, advance placement and other external credit do not substitute for upper-level (300) courses.

Requirements - Minor:

Students seeking a minor in economics must complete with a grade of "C" or better 21 semester hours which must include ECON 101(3), 102(3), 202(3), 310(3); MGT 150(3) and at least two 300-level courses in economics.

Why study economics at Benedictine?

When you choose to major in economics at Benedictine University, you will begin to be concerned with solutions to economic problems arising from the production and distribution of goods and services at the macroeconomics and microeconomics level. You will learn to compile, process and interpret economic and statistical data. You will also learn to interpret government policies and their influence on price and employment levels.

As an economics major, you will receive thorough exposure to economic principles and how to apply them to the national economy and the business world. In our program, you will receive the theoretical and practical economic training you need to successfully enter the business community, government service or graduate school.

You will have access to our library's collection of current government documents and statistical information conveniently available to use for your research needs.

What careers are available with an economics degree?

Most students pursuing a bachelor's degree in economics intend to continue with graduate studies in economics or business at some point in their careers. Business economists work in such fields/positions as:

- Consumer education
- Banking officer
- Stock broker
- Market analyst
- Labor union officer
- Business manager
- Statistician
- Insurance actuary
- Merchandising manager
- Real estate manager
- Government researcher

How does the program work?

As an economics major, you will acquire the broad base of knowledge, represented by the University's core courses taken by all students, which will prove valuable in your future career development and daily life as a citizen of your community. You will develop a knowledge of ethics and the closely-related social sciences important to your success: sociology, psychology and political science. You will acquire a thorough background in quantitative skills through courses in statistics, calculus and linear algebra or differential equations, plus other recommended math courses. You will thoroughly learn principles of accounting, how firms operate and make economic decisions, how the economic system works at the aggregate and microeconomic levels, and specialized economic topics such as public finance, money and financial markets and international trade and finance.

Education

College: College of Education and Health Services

Department: Teacher Education

Student Type: Traditional Undergraduate

Faculty:

Richard Campbell, Ed.D.

Alandra Clarke, Ph.D.

Alan Gorr, Ph.D., M.P.H.

MeShelda Jackson, Ph.D., Department Chair

Joyce Jeewek, Ed.D.

Eileen Kolich, Ph.D.

James Pelech, M.B.A., C.A.S. Ed.D.

Fr. David Turner, O.S.B., Ph.D., D.Min. (Prin.)

Ovid Wong, Ph.D.

John Zigmond, Ed.D.

Lecturers:

Bruce Bandy, M.A.

Sandra Brennan, M.S.

Lou Ann Chvatal, M.S.

Frank Corso, M.S.

Mark Flood, M.A.

Steven Fry, M.A.

Paula Helberg, Ed.D.

Mary Jeffery, M.A.

Thomas Luthy, Ed.D.

Steven Penley, M.B.A.

Dilara Sayeed, M.S.

Dawn Sayre, M.Ed.

Deborah Tyrrell, M.S.

Craig Weber, M.Ed.

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Campus: Springfield Branch Campus

Division: Education

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Student Type: Traditional Undergraduate

Faculty:

Cynthia Sedam, Ph.D., Division Chair

Joan McGrath, M.S.

Marilyn Jean Runkel, Ph.D.

Requirements - Major:

Requirements for teacher certification in Elementary Education:

Students majoring in elementary education must complete the following requirements. These align with, but are not totally inclusive of, all of the University core requirements for an undergraduate degree at Benedictine University.

1. The skills core with at least a "C" in each course. This core includes WRIT 103(3), 102(3), and SPCH 110(3). The skills core with at least a "C" in each course.

The math requirement for majors in Elementary Education (which satisfies the math requirement for the skills core) is MATH 112(4), and MATH 222(4) with grades of "C" or better. MATH 105, 108, or 110 may be used in place of MATH 112 by transfer students and students who change their major to Elementary Education if MATH 222 is completed with a grade of "C" or better. If MATH 222 is not completed with a grade of "C" or better, the student must then take both MATH 112 and 222 and earn grades of "C" or better in both courses. Transfer students can also satisfy the math requirement with approved courses for Math for Elementary Teachers I and II, 3 semester hours each, with grades of "C" or better.

2. The Arts and Humanities core, 12 semester hours, which must include a literature course (3).
3. The Natural Sciences core, 12 semester hours, which must include biological and physical science courses, one of which must be a lab course.
4. The Social Sciences core, 9 semester hours, which must include American Government PLSC 102(3), and Educational Psychology EDUC 210/PSYC 241(3).
5. Other requirements include a course in American History(3), and a multi-cultural/non-western culture course (3).

Students must also complete an additional 18 semester hours in an academic discipline that prepares them for the teaching content in the middle grades. The areas of emphasis include: Art, Language Arts/Literature, Biology, Chemistry, Physics, Mathematics, Computer Science, Spanish, History, or Social Science. The 18 semester hours must include nine hours at the 200 level or above, including at least three semester hours at the 300 level. The professional education requirements are: EDUC 200(1), 205(3), 206(0), 215(3), 240(3), 260(3), 310(3), 312(3), 315/316(3), 318(3), 320/321(3); PHED 257(2); and a three credit hour elective. (For elective options, see the Teacher Education Handbook or your Education program academic advisor.) Also, preclinical experiences require a minimum of 105 clinical hours.

Students completing the teacher certification requirements in elementary education must complete all of the above coursework plus EDUC-370, Student Teaching Elementary and Middle School(12).

Requirements for teacher certification in Secondary Education:

Students seeking certification in secondary education (Education minor) must complete the following requirements. These align with, but are not totally inclusive of, all of the University core requirements for an undergraduate degree at Benedictine University.

1. The skills core with at least a "C" in each course. This core includes WRIT S103(3), 102(3), SPCH 110(3), and MATH 108(3) or 105(3) or 110(3).
2. The Arts and Humanities core, 12 semester hours, which must include a literature course (3).
3. The Natural Sciences core, 9 semester hours, which must include biological and physical science courses, one of which must be a lab course.
4. The Social Sciences core, 9 semester hours, which must include American Government PLSC 102(3), and Educational Psychology EDUC 210/PSYC 241(3).
5. Other requirements include a course in American History(3), and a multi-cultural/non-western culture course(3).

Students must also complete an academic major outside the education division in biology, chemistry, physics, mathematics, business, English, Spanish, or social science. The major must include a minimum of 32 semester hours (NOTE: The Spanish program provides for certification in grades K-12).

The professional education requirements are: EDUC 200(1), 205(3), [206(0)], 215(3), 260(3), 310(3), Methods in the teaching field (3) with 350(0), and 353/354(3), and PHED 257(2). Also, preclinical experiences require a minimum of 105 clinical hours.

Students completing the teacher certification requirements in secondary education must complete all of the above coursework plus EDUC 371, Student Teaching-Middle/Junior and High School (12).

Requirements for teacher certification in Special Education/Learning Behavior Specialist I (LBS I):

Students majoring in Special Education/Learning Behavior Specialist I (LBS I) must complete the following requirements. These align with, but are not totally inclusive of, all of the University core requirements for an undergraduate degree at Benedictine University.

1. The skills core with at least a "C" in each course. This core includes WRIT 101, 102, and SPCH 110.
2. MATH 112 is the required course for the LBS I program (skills core and LBS I major); with a grade of "C" or better. MATH 105, 108, or 110 may be used in place of MATH 112 by transfer students and students who change their major to LBS I with a grade of "C" or better.
3. The Arts and Humanities core, 12 semester hours, which must include a literature course (3).
4. The Natural Sciences core, 9 semester hours, which must include biological and physical science courses, one of which must be a lab course.

5. The Social Sciences core, 9 semester hours, which must include American Government PLSC C102(3) and Educational Psychology EDUC 210(3) or PSYC 241(3).
6. Other requirements include a course in American History(3) and a multi-cultural/non-western culture course(3).

The professional education requirements are: EDUC 200(1), 205(3), [206(0)], 215(3), 240(3), 257(3), 260(3), 265(3), 270(3), 275(3), 310(3), 320/321(3), 355/356(3), 357/358(4), 360/361(3), 365/366(3); PHED 257(2); and a three credit hour elective. (For elective options, see the Teacher Education Handbook or your Education program academic advisor.) Also, preclinical experiences require a minimum of 210 clinical hours.

Students completing the teacher certification requirements in special education must complete all of the above coursework plus EDUC 372, Student Teaching-Elementary Special Education, LBS I(6) and EDUC 373, Student Teaching-Secondary Special Education, LBS I(6). The special education major entitles the student to certification under the designation "LBS I" (Learning Behavior Specialist I).

Middle-grade Endorsements:

Students seeking an elementary or secondary certificate qualify for a middle grade endorsement by completing a minimum of 18 semester hours in the subject matter area of their disciplinary emphasis or academic major. Some areas (i.e., mathematics) also require courses in specific areas. You should check with your Education advisor in reference to this. In addition, coursework relating to early adolescent development, middle school philosophy and methodology is required. These areas are integrated into existing coursework in the elementary major and secondary minor.

Requirements - Minor:

Special Education minor:

Students enrolled in elementary or secondary education programs can elect to earn a minor in special education by completing the following courses (22 semester hours): EDUC 260(3); 310(3); 265(3) and 360/361(3) or 270(3) and 365/366(3); 257(3) and 357/358(4); and three semester hours from EDUC 265, 270, or 275 if not already completed.

Completion of the special education minor qualifies the student for an approval in special education, Learning Behavior Specialist I (LBS I). The approval will be issued to applicants who have qualified for an Initial Elementary or Secondary Teaching Certificate and is good for three years from the date of issue. In other words, the applicant has three years to complete the remaining requirements for full certification as a Learning Behavior Specialist I (LBS I) as the approval is no longer valid after three years. Also, the approval is valid for only the grade levels covered by the initial certificate.

Requirements - Other:

Teacher Education Program

Application and Matriculation:

Candidates seeking a teaching career must have a sincere desire to teach, show intellectual promise, and display personal, professional and academic characteristics indicative of competent teachers.

The School of Education's major goal, according to its conceptual framework, is to create effective practitioners who are committed to scholarship, lifelong inquiry, leadership and social responsibility. These enduring outcomes are developed and nurtured through the curriculum. Educators develop scholarship by acquiring a breadth and depth of knowledge in the field. As scholars, they develop lifelong inquiry by immersing themselves in a process of on-going questioning and reflection that results in informed thinking and decision-making. They assume leadership roles in a variety of venues where they can affect change and improve practice. Their leadership is guided by a sense of social responsibility to create fair and equitable environments that support and enhance learning in order to maximize each individual's potential.

As candidates progress through the program they will develop an understanding of the Illinois Professional Teaching Standards, the Language Arts Standards for All Illinois Teachers, the Technology Standards for All Illinois Teachers, and the Content-Area Standards for Educators. In addition to successful completion of their course work, they will also develop a professional portfolio that demonstrates their growth in teaching and service to education as well as their understanding of the Illinois standards. Similarly, technology will be an integral part of their development through the use of LiveText as a part of their course work along with the preparation of their portfolio. Their preparedness to teach will also be demonstrated through passage of the Illinois Certification Testing System's (ICTS) Basic Skills Test, Content-Area Test, and Assessment of Professional Teaching Test.

Candidates desiring to enter the program for teacher education should consult with their academic advisors early in their academic career to ensure that they enroll for the appropriate courses needed for admission to teacher education. The initial courses are EDUC 200(1), Preclinical Experience, and EDUC 205(3), History and Philosophy of Education. Transfer students who have completed a course equivalent to EDUC 205 will register for EDUC 206(0), Transfer Introduction to Education Seminar (TIES). Candidates, at this time, should also take the ICTS Basic Skills Test if they have not already passed this test.

Candidates must successfully meet the requirements through six (6) checkpoints to (a) be admitted to the Teacher Education Program (TEP), (b) to maintain enrollment in the TEP, and (c) to successfully complete the program with Illinois teacher certification. A seventh checkpoint is utilized by the School of Education to follow-up with teacher candidates in their first year of teaching in reference to the Illinois Teaching Standards. This provides the SOE with valuable information for on-going assessment of the program. The seven (7) checkpoints (with their requirements) are as follows:

Checkpoint No. 1: Admission into the Teacher Education Program

- EDUC 205, History and Philosophy of Education. Completed with minimum grade of "C." EDUC 206, Transfer Introduction to Education Seminar, must be satisfactorily completed by applicants who transferred credit for EDUC 205.
- EDUC 200, Pre-clinical Experience. Completed with minimum grade of "C."

- Successful completion of portfolio artifacts and rationale statements for three of the Illinois Professional Teaching Standards via LiveText.
 - Successful Ratings on all Professional Dispositions/Behaviors for Teacher Preparation as evidenced in EDUC 205 via LiveText.*
 - Minimum Cumulative Grade Point Average of 2.5.
 - Successful completion of ICTS Basic Skills Test.
 - Three Supportive Letters of Recommendation.
 - Background Check (clearance).
 - Completion of Basic Skills Courses ("C" or better).
 - Completion of 24 semester hours of BU courses/6 semester hours for transfer students.
- *Transfer students will provide evidence of professional dispositions from one methods course.

Checkpoint No. 2: Application to Student Teaching

- Successful completion of Pre-clinical Experiences.
- Senior Standing (90 Semester Hours).
- 2.5 Cumulative GPA.
- 2.5 in Major.
- 2.5 in Academic Major (Secondary).
- Approved for Admission into the Teacher Education Program
- Successful Completion of Coursework (Major; 18 Semester Hour Emphasis; Education Minor (Secondary)).
- Successful completion of ICTS Content Area Test/s.
- Successful Ratings on all Professional Dispositions/Behaviors for Teacher Preparation as evidenced in all Methods courses via LiveText.
- Successful completion of portfolio artifacts for six of the Illinois Professional Teaching Standards via LiveText.

Checkpoint No. 3: Admission into Student Teaching

- Completion of portfolio artifacts for all eleven Illinois Professional Teaching Standards via LiveText.
- Successful completion of all requirements for Checkpoint No. 2.

Checkpoint No. 4: Completion of Student Teaching

- Successful completion of student teaching, including the presentation portfolio, with a "C" or better.
- Presentation Portfolio includes at least 6 artifacts from student teaching via LiveText.

Checkpoint No. 5: Completion of Degree/Program Requirements

- Graduation Audit (no deficiencies)
- Successful completion of Checkpoint No. 4

Checkpoint No. 6: Completion of Certification Requirements*

- Successful completion of the Assessment of Professional Teaching (APT) Test

The information contained on this page is from the 2013-2014 Undergraduate Catalog and is valid until August 1, 2014.

- Successful completion of Checkpoint No. 5
- Successful completion of all certification requirements
 - *The candidate for a certificate must also be a U.S. citizen (or declaration of intent); be 19 years of age; no felony conviction
- Successful performance on IPT standards as assessed by first year teachers and their respective supervisor(s)

Transferring to Benedictine University:

If you are transferring to Benedictine University from an accredited teacher certification program, you should contact the Office of Admissions for a review of your academic record to determine the transfer credit that may be applied toward the completion of the education degree and teacher certification program at Benedictine University.

If you are transferring from a community college, you should reference the transfer guide between Benedictine University and the particular community college. All methods courses must be taken at Benedictine University. For transfer of preclinical hours, appropriate documentation must be provided. (Consult with your Education advisor regarding this).

NOTE: The GPA used for acceptance into the teacher education program and student teaching will be based on coursework completed at Benedictine University.

Transfer students who have been awarded credit for EDUC 205(3), History and Philosophy of Education, are required to enroll in EDUC 206(0), Transfer Introduction to Education Seminar (TIES), during their first semester at Benedictine University. This seminar course meets for five sessions during the semester and serves as an introduction to the School of Education, LiveText, the portfolio process, and Illinois Teacher Certification. The State of Illinois background check is also arranged through this course.

Engineering Science

College: College of Science

Department: Physics/Engineering

Student Type: Traditional Undergraduate

Faculty:

Ralph D. Meeker, Ph.D.

Peter H. Nelson, Ph.D.

Andrew Wig, Ph.D.

Lecturers:

James H. Ma, M.S.

Philip A. Schreiner, Ph.D.

The lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Advisor: Andrew Wig, Ph.D.

Acceptance into the Engineering Science Program:

A student will gain acceptance to the engineering science program by completing the introductory sequence of PHYS 211, PHYS 212, MATH 210, and MATH 211 with a GPA of 2.50 or above and a grade of "C" or better in each of these courses. A transfer student will gain acceptance by meeting these requirements through equivalent transfer courses. Additionally a transfer student must earn a GPA of 2.5 or above in all major classes (excluding labs) during the first semester at BU in order to be accepted into the engineering science program.

If it is determined at any time that a student cannot gain acceptance to the engineering science program or cannot graduate with a engineering science degree, the student will be required to change his or her major and seek academic advising outside of that program.

Requirements - Major:

Engineering science majors are required to complete the engineering core program: ENGR 120(2), 220(3), 264(3); MATH 210(4) and 207(1) or 170(4) and 171(1) plus 200(4), 211(4), 212(4), 260(4); PHYS 211(4), 212(4), 213(3), C205(1), 206(1); CHEM 113(3), 114(1), or 115(1) or NTSC 151(1.5), CHEM 123(1), 124(1), or 125(1) or NTSC 152(1.5); a 300-level CHEM or PHYS(3); CMSC 180(2), CMSC-181 or 185, and an additional 20 semester hours of engineering coursework. All grades must be "C" or better.

Requirements - Other:

Pre-Engineering Transfer Program: In this program, the student transfers to an engineering school (University of Detroit, University of Illinois, Marquette University, University of Notre Dame, etc.) at the end of the sophomore year and earns a degree from the engineering school after two additional years of work.

Requirements for Pre-Engineering transfer students:

Students are normally required to successfully complete 60 semester hours of course work before an engineering school will allow them to transfer into one of its programs. For most engineering programs, these 60 hours would include the following courses: PHYS 211(4), 212(4), 213(3), 205(1), 206(1); MATH 210(4) and 207(1) or 170(4) and C171(1) plus 200(4), 211(4), 212(4), 260(4); CHEM 113(3), 114(1), 123(3), 124(1); ENGR 120(2), 220(3), 264(3); CMSC 180(2), CMSC 181 or 185(2); WRIT 102(3) and 6 semester hours of social science electives.

Engineering Science major program:

The second program offered in Engineering Science is often referred to as a 3+2 program because the student spends three years at Benedictine completing all of the general education requirements and engineering courses, then transfers to the engineering school to complete the engineering program in two additional years. Two degrees are earned: a Bachelor of Arts with a major in engineering science from Benedictine University and an undergraduate engineering degree in a particular field from the engineering school. Work completed at the engineering school is counted toward the Bachelor of Arts degree which is normally conferred at the end of the fourth year in the program (the first at the engineering school).

Other Information:**Benedictine University IIT Joint Engineering Program**

Program Liaison: Andrew Wig, Ph.D.

Benedictine University and Illinois Institute of Technology have established a program to offer students the opportunity to take advantage of the strengths of both schools en route to an engineering degree. But unlike most cooperative engineering programs, this one allows a student to be enrolled at Benedictine and IIT at the same time.

In this program, students take humanities, social science, basic sciences and math courses at Benedictine University in Lisle, while taking engineering courses at IIT's downtown Chicago campus. Upon graduation in five years, the student is awarded an engineering degree from IIT and a bachelor of arts degree in engineering science or a bachelor of science in computer science (in conjunction with the computer engineering program) from Benedictine University.

A resident student can remain on campus during his/her entire university career. He/she will maintain one grade-point average throughout the entire joint program. He/she may also participate in student activities and use all the facilities at both schools. Students may earn engineering degrees in the five year program in the following areas:

- Electrical Engineering
- Computer Engineering

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- Mechanical Engineering
- Aerospace Engineering
- Environmental Engineering
- Civil Engineering
- Chemical Engineering
- Architectural Engineering
- Biomedical Engineering – Cell and Tissue Track
- Biomedical Engineering – Medical Imaging
- Biomedical Engineering –Neural Engineering

General Education Requirements - Humanities and Social Sciences
Benedictine University - Joint Program Agreement

1. WRIT 101 and WRIT 102 – 6 semester hours or Proficiency by Examination
2. SPCH 110 – 3 semester hours or Proficiency by Examination
3. Cultural Heritage Series – 12 semester hours
 - a. HUMN 220 – 3 semester hours
 - b. HUMN 230 – 3 semester hours
 - c. HUMN 240 – 3 semester hours
 - d. HUMN 250 – 3 semester hours
4. Core Electives - Core elective as designated in this catalog.
 - a. Arts and Humanities – 12 semester hours
 - i. Fine Arts/Music – 3 semester hours
Choose from FNAR 100, 203, 204, MUSI 104, 204, 207, 208, 211, 211
 - ii. Literature/Foreign Language Literature – 3 semester hours
Choose any Literature/Foreign Language Literature Core Elective as designated in this catalog, except for LITR 269.
 - iii. Philosophy – 3 semester hours
Choose any Philosophy Core Elective as designated in this catalog.
 - iv. Religious Studies – 3 semester hours
Choose any Religious Studies Core Elective as designated in this catalog, except for RELS 160, 165, 191, 291.
 - b. Social Sciences – 9 semester hours
 - i. Psychology or Sociology – 3 semester hours
Choose any Psychology or Sociology Coe Elective as designated in this catalog.
 - ii. Economic or Business – 3 semester hours
Choose any Economics or International Business and Economics Core Elective as designated in this catalog.
 - iii. Anthropology or Political Science – 3 semester hours
Choose any Anthropology or Political Science Core Elective as designated in this catalog.
 - c. Life Sciences – 3 semester hours
Choose any Life Sciences Core Elective as designated in this catalog.

English Language and Literature

College: College of Liberal Arts

Department: Language and Literature

Student Type: Traditional Undergraduate

Faculty:

Zubair Amir, Ph.D.

Wilson Chen, Ph.D.

Elizabeth Kubek, Ph.D., Department Chair

Objectives:

Courses in English Language and Literature are designed to:

1. Introduce students to close reading and analysis of the literary and cultural texts that shape our society;
2. Develop students' ability to understand complex ideas and create clear, effective critical arguments, both orally and on paper;
3. Train students in the use of advanced communicative and creative technologies;
4. Develop aesthetic, ethical and critical skills through reading, writing and discussion;
5. Provide opportunities and skills for research in traditional and electronic media;
6. Make use of proven instructional techniques, such as active learning and process-oriented writing;
7. Encourage students to develop collaborative, interpersonal and persuasive skills by working closely with faculty and each other;
8. Provide focused training for careers in education, writing or other areas requiring communications skills; and
9. Prepare students for graduate school and/or professional careers by covering both traditional and contemporary approaches to texts, writing and research.

Goals of the English Language and Literature major:

The program is designed to:

1. Develop an appreciation and understanding of literature in English and in translation;
2. Provide experience in reading significant writers, periods, genres and literary traditions in cultural context;
3. Teach strategies and methodologies for interpreting literary texts; and
4. Emphasize the vital and dynamic role of the literary imagination in cultures.

Requirements - Major:

English Language and Literature majors must complete at least 39 hours within the program, with a grade of "C" or better, including LITR 100(3); three courses designated pre-1800 by the Department (9); three courses designated post-1800 by the Department (9); one "diversity" LITR course, as designated by the Department; and LITR 399 (3). Of the 39 hours, at least 15 must be at the 300 level. English Language and Literature majors are required to demonstrate competency in a second language by completion of at least one language course at the 202 level.

English Language and Literature majors who have a minor in Secondary Education must complete at least 39 credit hours within the program, with a grade of "C" or better, including: LITR 100 (3); the American Literature Sequence, LITR 255/256 (6); two additional courses designated pre-1800 by the Department (6); two additional courses designated post-1800 by the Department (6); LITR 307 (3), LITR 322 (3), LITR 352(3), one "diversity" LITR course designated by the department and LITR 399 (3). Of the 39 program credit hours for these majors, 21 must be at the 300 level. LITR 100 is the Prerequisite: for most 300-level courses. Through working with advisors, majors will be guided through the selection of courses both within and outside other program in order to plan a program of study in their individual educational and career goals.

English Language and Literature major for pre-law students:

While stating that no single major is recommended for admission to law school, the "Statement on Prelegal Education of the Association of American Law Schools" emphasizes the absolute necessity for the "need to master, at the undergraduate level, advanced writing skills and effective oral communication. Lawyers must be able, in drafting instruments, to convey meaning clearly and effectively. In oral and written advocacy he or she must be capable of communicating ideas convincingly and concisely. Truly, the law-trained man or woman, to perform effectively the tasks expected, must be a precisionist in the use of language."

Students interested in law school who choose English Language and Literature as a major are advised to take, in addition to their major requirements, the following courses, many of which may be applicable to divisional core requirements: PHIL 260 or 355(3) and a history course; ECON 101(3), ACCT 111(4), PLSC 202(3), MGT 150(3), CMSC 120(3), a biology core elective, and BCHM 100(3).

Requirements - Minor:

A minor consists of at least 21 hours of courses with a grade of "C" or better, including LITR 100(3); one course from 255(3), 256(3), 257(3) or 258(3); and six credit hours at the 300 level.

Requirements - Teaching Certification:

Students desiring to be certified to teach English at the secondary level (grades 6-12) are to declare themselves as literature majors and education minors and register with the education program as teaching certificate candidates. Advising is then a joint responsibility of the literature and the education programs.

Students must complete the requirements for a major in literature as well as the requirements of the Teacher Certification Program in Secondary Education, which includes an education minor (see Education).

Students who desire a teaching minor in English should consult with the Education program to plan their program of studies for certification.

Requirements - Other:**Advanced Courses in English Language and Literature:**

Where appropriate, Prerequisite for 300-level LITR courses may be waived, with permission of instructor and departmental approval. Students seeking waiver of a Prerequisite: should consult their

advisor for details. Waiver of a Prerequisite: (i.e. LITR 100) for any one 300-level course does not constitute a waiver of Prerequisite for any other course, or of any course requirement for the major or minor.

Selected 200-level LITR courses will periodically be offered in a special format designed for English Language and Literature majors and minors (MMO format). Registration for these sections is restricted to include only majors and minors in English Language and Literature and, in some cases (to be indicated in the Semester Course Schedule), in appropriate cognate programs as approved by the department for that course (i.e. Gender Studies, Education, Communications, Film Studies). It is strongly recommended that English Language and Literature majors and minors enroll for MMO sections whenever these are available. In semesters where a particular course is offered in both MMO and regular formats, English Language and Literature majors and minors (and other eligible students, as above) will not be eligible to enroll in the non-MMO section.

Departmental Distinction:

Students majoring in English Language and Literature or Spanish in the Department of Languages and Literature who meet the following criteria may apply for Departmental Distinction:

1. GPA in the major of 3.5 or higher,
2. Overall GPA of 3.25 or higher,
3. Successful completion of senior thesis,
4. Oral presentation of a paper at either a regional undergraduate conference or a colloquium sponsored by the department,
5. Active participation in department activities (e.g. Help organize and attend presentations by invited speakers, off-campus events, and Open Mic sessions, write for and/or work on Different Voices or Quantum Pulp, help organize and run initiation ceremonies for honor societies, etc.), and
6. At least 25 hours of community service related to the field (e.g. Tutoring in the ARC, community literacy volunteer, work at an area social agency serving the Hispanic community, etc.). Students interested in working towards Departmental Distinction should speak with their advisor and contact the Chair of the Department of Languages and Literature as early as possible in their academic career. Students must apply for Departmental Honors during the semester BEFORE the semester in which they plan to graduate (October of February).

Environmental Science

College: College of Science

Department: Biological Sciences

Student Type: Traditional Undergraduate

Faculty:

Preston Aldrich, Ph.D. Department Chair

Cheryl A. Heinz, Ph.D.

Lawrence F. Kamin, Ph.D.

Alfred R. Martin, Ph.D.

Philip Novack-Gottshall, Ph.D.

Robin Pals-Rylaarsdam, Ph.D.

Lee Ann Smith, Ph.D., Assistant Department Chair

Rev. Theodore D. Suchy, O.S.B., M.S., Professor Emeritus[†]

Donald B. Taylor, Ph.D., Provost and Vice President for Academic Affairs

Monica Lee Tischler, Ph.D.

Allison K. Wilson, Ph.D.

Objectives:

Students who complete the Environmental Science program will:

1. Have a solid, multidisciplinary understanding of environmental problems and solutions;
2. Be able to integrate the many different aspects of environmental science and relate the underlying scientific theory to how environmental considerations affect our everyday lives;
3. Have an understanding of the principles (natural science) and practice (for example-economic, political, ethical, historical) of environmental problems;
4. Have developed critical reasoning and communication (written and oral) skills.
5. Be able to use current technologies to find information, identify appropriate strategies and select proper tools to address problems; and
6. Have earned OSHA HAZWOPER certification.

Acceptance into the Biological Sciences Program:

A student will gain acceptance to the Environmental Science major through the Biological Sciences program by completing BIOL 197, BIOL 198, CHEM 113, and CHEM123 with a grade of "C" or better in each of these courses, and receiving no more than a total of three "D" or "F" grades in these courses, wherein two "W" grades count as a single "D/F" grade. The entire introductory sequence of BIOL 197, BIOL 198, CHEM 113, and CHEM123 must be completed prior to taking any 200-level courses in BIOL. A transfer student will gain acceptance by meeting these requirements through equivalent transfer courses. Additionally a transfer student must earn a GPA of 2.5 or above in all major classes (excluding labs) during the first semester at Benedictine in order to be accepted into the Biological Sciences program.

If it is determined at any time that a student cannot gain acceptance to the Biological Sciences program or cannot graduate with a Biological Sciences degree, the student will be required to change his or her major and seek academic advising outside of that program.

Requirements - Major:

The Environmental major must complete 66 hours in program courses with a grade of "C" or better: BIOL 197(3), 198(3), 199(1); CHEM 113(3), 114(1), 123(3), 124(1), 242(3), 243(1), 247(3), 248(1); MATH 111(3); PHYS 113(3), 114(1), 118(3), 119(1); 204(3), BIOL 229(3), 256(3) or 258(4) BIOL 363(3) 364(1); ENVS 205(3), 210(1), 398(2); PHIL 248(3) or Philosophy core approved ethics and nine semester hours of upper level science electives at the 200 level or above, including 3 science hours at the 300 level. Science electives must be approved by the program director. The writing intensive course in the major is ENVS 398.

Transfer students are required to take BIOL 299(1) in addition to BIOL 197,198 (and 199 if lab credit is transferred). BIOL 299 will count as a 200-level credit in the major.

A student may have only one major in the biochemistry/molecular biology, biology, environmental science, and health science programs.

Environmental Studies Certificate

College: College of Liberal Arts

Department: Other Liberal Arts

Student Type: Traditional Undergraduate

Faculty: Jean-Marie Kauth, Ph.D. and other regular and adjunct faculty in all colleges

Objectives:

The Certificate in Environmental Studies is intended for students who have an interest in the environment or who wish to combine environmental studies with some other major or minor. The certificate will be noted on official and unofficial transcripts.

Requirements - Other:

The Certificate in Environmental Studies will entail successfully completing at least 12 credit hours of coursework in environmental-related courses from the attached list. All courses must be completed at Benedictine University. Courses from at least two different colleges must be included among the 12 credits. Only courses in which a student has received a grade of "C" or better may be applied to the certificate. Any credit completed for the certificate may be applied to fulfill core major or minor requirements.

Approved courses:

ANTH 309-when dedicated to an environmental theme, BCHM 100, BIOL 180, BIOL 205, BIOL 363, BIOL 364, BIOL 394, and BIOL 191, BIOL 281-when dedicated to an environmental theme, ENVS 210, ENVS 211, ENVS 398, GEOG 106-when dedicated to an environmental theme, GLBS WI 102-when dedicated to an environmental theme, HUMN 250-when dedicated to an environmental theme, LITR 291/391-when dedicated to an environmental theme, LITR 381/GENS 100-when dedicated to an environmental theme, NTSC 210, PHIL 248-when dedicated to an environmental theme, PLSC 210-when dedicated to an environmental theme, PLSC 215-when dedicated to an environmental theme, RELS 140-when dedicated to an environmental theme, RELS 191-when dedicated to an environmental theme, SOCL 240-when dedicated to an environmental theme, SOCL 350-when dedicated to an environmental theme, THEO 104-when dedicated to an environmental theme.

Exercise and Sports Studies

College: College of Education and Health Services

Department: Education

Student Type: Traditional Undergraduate

Faculty:

Elizabeth Bell, Ed.D.

Lecturers:

Regina Schurman, Ed.D.

Objectives:

The Exercise and Sports Studies program provides:

1. Preparation for students, who are interested in careers in athletics, strength/conditioning, personal training, fitness industry, and community health/fitness organizations such as YMCAs and park districts
2. Skills needed to educate clients, children, and other community members in the areas of health, fitness, and sport.
3. Latest technology in fitness assessment, tracking progress and attainment of fitness related goals, and educational resources for health and fitness related topics
4. Knowledge about sport activities, fitness activities, lifespan growth and development, sport psychology, and lifelong activity and its importance to today's society and culture.
5. Current technologies to find information, demonstrate understanding of problems, identify appropriate strategies and select proper tools to address problems.

Requirements – Major:

Exercise and Sports Studies majors must pass the core courses and the following courses with a "C" or better. The Exercise and Sports Studies major must complete: PHED 200(3), 201(2), 236(3), 240(2), 241 (2), 250(3), 257(2), 260(3), 261(3), 270(2), 291(3), 299(3), 301(3), 302(3), 304(3), 307(3), 399(6); BIOL 155(4), HLSC 200(4), NUTR 201(3), PSYC 150(3)

Requirements - Other:

The 4+1 program offers a Bachelor of Arts degree in Exercise and Sports Studies in four years of full-time study and a Master of Science degree in Clinical Exercise Physiology after just one additional year of graduate work.

In addition to the University requirements, the student in this 4+1 program must complete with a grade of "C" or better: PHED 200(3), 201(3), 236(3), 250(3), 260(3), 270(2), 299(2), 320(3), 304(3), 307(3), 399(3); BIOL 197(3), 198(3), 203(4), 258(4), 358(3); CHEM 101(3), 103(3); HLSC 321(1), 322(1), 360(3), 361(3), 392(3), 380(2); NUTR 201(3).

Students must also complete the following:

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Two(2) semester hours of either PHED 240 or PHED 241

Two (2) semester hours of 100-level activity courses

Three (3) semester hours of PHED electives at the 300 level

Students majoring in the Exercise and Sports Studies 4+1 program must have a cumulative GPA of 3.0 at the end of their sophomore year.

Admission to the graduate part of the program (last year of undergraduate courses) is not automatic. A GPA of 3.25/4.0 and application to Clinical Exercise Physiology program is required for admission consideration.

Film Studies (Minor Only)

College: College of Liberal Arts

Department: Communication

Student Type: Traditional Undergraduate

Faculty:

Elizabeth Kubek, Ph.D.

Jonathan Lewis, Ph.D.

Luigi Manca, Ph.D.

Peter B. Seely, M.A., Department Chair

Advisor: Peter B. Seely, M.A.

Objectives:

The minor in film studies is designed to:

1. Underscore the cultural importance of narrative film in modern life;
2. Teach students how to interpret film from a variety of historical, cultural and theoretical perspectives;
3. Help students to analyze how meanings are created through representational devices inherent in film; and
4. Develop a pre-professional foundation (in criticism or production) for students who plan to complete advanced studies in film at other universities offering graduate degrees in film studies.

Requirements - Minor:

Film studies minors must complete 21 hours of courses in the field with a grade of "C" or better. At least 12 hours of course work must be completed on the campus of Benedictine University. Students minoring in film studies must complete the following requirements: two of the following three courses that take an historical approach to film: COMM 250(3), 251(3), 256(3); three of the following genre oriented courses: COMM 295(3), 388(3); FREN 291(3); LITR 210(3), 291(3); PSYC 291(3), 292(3); PLSC 291(3); two critical theory/applied studies courses selected from the following: COMM 316(3); LITR 305(3); SOCL 253 or 353(3); or other theoretical courses with a strong focus on films not currently listed in this undergraduate catalog.

Finance

College: College of Business

Department: Undergraduate Business

Student Type: Traditional Undergraduate and Adult Undergraduate

Faculty:

Deborah Cernauskas, M.S., M.B.A., Ph.D., Department Chair

Charles L. Gahala, M.B.A., Ed.D., CCE

Donald Henschel, M.B.A., CPA

Nona Jones, Ph.D.

Soyon Lee, Ph.D., CPA

Isobel Lobo, Ph.D.

Jeffrey Madura, M.B.A., CPA

James Zoda, Ph.D.

Vicki Jobst, M.B.A., D.B.A., CPA

Campus: Springfield Branch Campus

Division: Business

Student Type: Traditional Undergraduate

Faculty: Joana Ramsey, M.S., Division Chair

Objectives:

This program and courses are designed to:

1. Evaluate the role of economics and business in the social environment of our culture;
2. Articulate how the functional areas of business interrelate within organizations;
3. Improve skills in communication, analytical thinking and appreciating the human element in organizations; and
4. Develop specific skills applicable to the various aspects of the functional areas of business.

This program and major are designed to:

1. Prepare you for entry level positions;
2. Enable you to perform effectively in professional and career positions in management; and
3. Prepare you for graduate and professional study in business or management.

All students in this program will receive a thorough grounding in:

1. Economics (the theoretical basis for the discipline);
2. Mathematics and statistics (the tool subjects);

3. The principles pertinent to all of the functional areas of business, accounting, finance, management and marketing, in an integrated manner and with adequate focus on their international aspects; and
4. Corporate finance, banking and investments.

The finance major is designed so that the entire degree is available through day classes. The finance major is also offered in time periods and formats that are designed for the needs of adult learners, offered through evening and weekend classes.

Requirements - Major:

Finance majors must complete the University core requirements, which are partially satisfied by MGT 252 Business Ethics (which also counts as religion core) or one core approved philosophy course in ethics, MATH 105(3) or 110(3) and 115(3). All business majors must complete CMSC 180 and one of CMSC 181 through 184, depending upon the student's background. CMSC 181 should be taken by students who believe they already have spreadsheet skills. CMSC 184 is recommended for those students who need to develop spreadsheet skills. ACCT 310 may be substituted for CIS/CMSC 180, 181/184, with advisor approval.

Majors must complete each of the business core courses with a "C" or better: ACCT 111(3), 112(3); ECON 101(3), 102(3); FINA 300(3); MKTG 300(3), MGT 150(3), MGT 251(3) or BALT 301 (3), and MGT 300(3).

Majors must complete with a "C" or better: FINA 310(3), 320(3), 380(3), three courses from among ECON 202(3), FINA 220(3), 360(3), 370(3), MKTG 380(3), ACCT 211(3), 212(3), 310(3), 312(3), MATH 370, MGT 235 with at least one FINA prefixed course from the preceding list.

Students in the Second Major Program that is housed outside of the department must complete the ethics, mathematics and computer science requirements of the first paragraph above and all of the requirements of the second and third paragraphs above.

CLEP, life experience, work experience, internships, advance placement and other external credit do not substitute for upper-level (300) courses.

Finance majors who elect to earn a second major in the Undergraduate Business Department must complete unique "specialization courses" for the second business major. Specialization courses may only be used to satisfy the requirements for one business major.

Requirements - Minor:

Only courses in which a student has received a "C" or better may be applied to the minor. Students are limited to one minor in the accounting, business and economics, economics, finance, international business and economics, management and organizational behavior, and marketing programs. Students (except Bachelor of Arts in Management students) seeking a minor in finance must complete with a grade of "C" or better 21 semester hours which must include ECON 101(3), 102(3); ACCT 111(3), 112(3); FINA 300(3); and at least two 300-level courses in finance. A Bachelor of Arts in Management student seeking a minor in Finance must complete with a grade of "C" or

better the following courses and their prerequisites: FINA 300, FINA 310, FINA 320, FINA 380, and any two courses from ACCT 211 and ACCT 212 (for a Financial Analysts' emphasis) or FINA 370 and ECON 202 (for a banking emphasis). A student who majors in Finance may not earn a minor in the undergraduate business department.

Concentrations in Business Analytics, Integrated Marketing Communications, Managing Human Resources, Operations Management, Personal Financial Planning, Sports Management and Sports Marketing are available in combination with this major. Requirements listed below must be completed with a "C" or better.

Requirements - Concentration:

Business Analytics Concentration: BALT 310, BALT 320, BALT 330, and BALT 340.

Integrated Marketing Communications Concentration: MKTG 330, 331, 332, 333 and COMM 208.

Managing Human Resources Concentration: MGT 330, 334, 335 and one of MGT 235, 302 or 320.

Operations Management Concentration: MGT 333, BALT 350, INTB 340, and MGT 235.

Personal Financial Planning Concentration: FINA 220, 320, ACCT 312 and one of MGT 235 or ACCT 120 along with FINA 120.

Sports Management Concentration: MGT 305, MKTG 305 and two courses from MGT 235, 297, 301.

Sports Marketing Concentration: MKTG 305, MGT 305 and two courses from MKTG 297, 330, INTB 371.

Fine Arts

College: College of Liberal Arts

Department: Communication Arts

Student Type: Undergraduate

Faculty:

William Scarlato, M.F.A.

Teresa Parker, M.F.A. Curator of the Art Collection

Adjunct Faculty:

David Marcet, M.F.A.

Jennifer Scavone, M.A.

Vince Lucarelli, B.A.

Karen Brooks, B.A.

The lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Objectives:

Benedictine University and The College of DuPage have established a program to offer students receiving an Associate of Fine Arts degree at The College of DuPage the opportunity to attain a Bachelor of Fine Arts, through the completion of an additional two years of study at Benedictine University.

Students will take many basic skills, Humanities, Math and Sciences courses along with Art History and Studio courses at the College of DuPage, Glen Ellyn, Illinois before entering Benedictine University. Upon completion of the Associate of Fine Arts degree, students may enter the Benedictine University Bachelor of Fine Arts program where core courses and advanced art courses must be completed. Several of the required upper level Benedictine University courses will be completed on the College of DuPage campus.

The program will allow students to:

1. Engage in the intellectual and spiritual discovery of the self through a chosen medium;
2. Benefit from the knowledge and experiences of both Benedictine University and College of DuPage faculty;
3. Learn from a variety of philosophical and stylistic approaches to contemporary art;
4. Appreciate the combination of professional training of the visual arts and the analytical depth and breadth of a rigorous liberal arts curriculum;
5. Prepare for continued study in an M.F.A. program of their choosing and;
6. Prepare for an exhibition career and the life of an artist.

The information contained on this page is from the 2013-2014 Undergraduate Catalog and is valid until August 1, 2014.

Requirements - Major:

Please refer to the 2013-14 undergraduate Checklist for the Bachelor of Fine Arts with the College of DuPage AFA for specific program requirements.

Requirements – Fine Arts Minor:

The University offers a minor in fine arts with a requirement of 21 hours of credit, with a grade of "C" or better. Required courses for a minor in Fine Arts are: FNAR 101(3), 111(3), 203(3), 204(3), and two studio arts electives choice from: any printmaking course (3), 250(3), 210(3), 293(3), 294(3), and one 300-level fine arts course. Students are advised to take the courses in sequence, beginning with FNAR 101 or FNAR 111.

Gender Studies (Minor Only)

College: College of Liberal Arts

Department: Interdisciplinary

Student Type: Traditional Undergraduate

Advisor: Elizabeth Kubek, Ph.D.

Objectives:

This program is designed to:

1. Provide courses from a range of disciplines focused on the construction of gender and categories of men and women in social, historical, political, cultural and economic contexts;
2. Promote diverse ways of experiencing and interpreting the range of issues and conflicts arising from the complex interrelations between gender and society; and
3. Address the interconnection of gender, race, class, ethnicity and religion as constructs through which differences appear in various institutions and societies.

Requirements - Minor:

A minor in gender studies consists of at least 21 hours of courses completed with a "C" or better from designated gender studies courses including GENS 100(3). At least 12 credit hours at the 200 level or above, including at least three credit hours at Benedictine at the 300 level must also be completed.

In addition to GENS 100(3), Introduction to Gender Studies, other courses in the minor program are as follows:

ANTH 212(3) Personality and Culture
BIOL 150(3) Biology of Women
COMM 290(3) Images of Men and Women in the Mass Media
HIST 260(3) Women in American Society
HIST 291(3) Topics: Comparative Women's History
LITR 281(3) Gender and Literature
LITR 305(3) Critical Theory
LITR 360(3) Modern Poetry
LITR 362(3) Modern Fiction
LITR 381(3) Theories of Gender in Literary Analysis
PSYC 292(3) Psychology of Horror Film
PSYC 312(3) Cerebral Effects on Consciousness
SOCL 234(3) Sociology of Sport
SOCL 270(3) Marriage and the Family
SPAN 395(3) Women in Latin American/Spanish Literature

Global Studies

College: College of Liberal Arts

Department: Interdisciplinary

Student Type: Traditional Undergraduate

Faculty:

Vincent Gaddis, Ph.D., History

Wilson Chen, Ph.D., Literature

Christine Isom-Verhaaren, Ph.D., History

Fannie Rushing, Ph.D., History

Beth Vinkler, Ph.D., Foreign Languages

Juaquin Montero, Ph.D., Foreign Languages

Steven Day, Ph.D., Foreign Languages

Objectives:

Global Studies is an interdisciplinary field that examines the forces that tie the world together. This involves analysis of the global connections of the past and also careful attention to how these connections developed and changed over the centuries in response to economic and technological innovations. Recognizing pre-national, national, and post-national historical conditions, Global Studies focuses on the social, economic, cultural, and political processes that link disparate regions and localities to one another. Students in this major will learn:

1. The social, economic, historical, cultural and intellectual traditions that inform various regions of the globe;
2. How to live, work, and participate in the interrelated and interdependent world of the twenty-first century;
3. How to apply disciplinary methodologies of analysis and research in global studies in their quantitative and qualitative dimensions;
4. How to communicate within and across academic disciplines and cultures;
5. How to confront moral and ethical issues facing the global community to develop a clear understanding of, and commitment to, personal values and beneficial change;
6. How to think critically about the tension between globalizing forces and those that promote regional and cultural identity.

A major in Global Studies will prepare students for a career in law, government service, work with NGOs, or a career in diplomacy, Foreign Service, or international business. The major is an excellent preparation for graduate and professional schools as well.

Requirements - Major:

The Global Studies major allows students to choose one of four areas of concentration: Latin American, American, Middle East or Asian studies. Core elective courses from the program also count toward the major. Students must complete 36 hours with the major and 12 hours foreign language. Students must complete 36 hours outside of core electives with a grade of "C" or better

with at least 9 hours at the 300 level. Core elective courses listed are recommended. INTB 101 or ECON 101; RELS 285, 130, 140; PHIL 230; PLS 210; ANTH 208; MUSIC 207.

AMERICAN STUDIES CONCENTRATION:

In addition to the university skills and core requirements, students must complete the following courses with a grade of "C" or better: GLBS 101, 102, 300, 399, INTB 101 or ECON 101, GEOG 106, HIST 111, 112, 265, LITR 255, RELS 285, PHIL 230, AMS 200, AMS 300, PLSC 210 or ECON 102.

Two(2) one in literature 300-level elective (from HIST 360, 364, 367, 380, LITR 364) and SPAN 101, 102, 201, 202. A study abroad experience is also required.

ASIAN STUDIES CONCENTRATION: In addition to the university skills and core requirements, students must complete the following courses with a grade of "C" or better: GLBS 101, 102, 300, 399, INTB 101 or ECON 101, GEOG 106, HIST 221, 222, RELS 130, ANTH 208, PHIL 320, MUSI 207, LITR 264, PLSC 210 or ECON 102, two (2) 300-level elective (one elective from HIST 353, 354, 357, LITR 391, RELS 170, 230, 235), and CHIN 101, 102, 201, 202. A study abroad experience is also required.

LATIN AMERICAN STUDIES CONCENTRATION: In addition to the university skills and core requirements, students must complete the following courses with a grade of "C" or better: GLBS 101, 102, 300, 399, INTB 101 or ECON 101, HIST 212/313, 213/313, 214/314, 215/315, GEOG 106, ANTH 208, ANTH 238 or ECON 102, LITR 264 or SPAN 221, MUSI 207, RELS 140, two (2) 300-level elective or SPAN 310, SPAN 101, 102, 201, 202. A study abroad experience is also required.

MIDDLE EAST STUDIES CONCENTRATION: In addition to the university skills and core requirements, students must complete the following courses with a grade of "C" or better: GLBS 101, 102, 300, 399, INTB 101 or ECON 101, GEOG 106, HIST 250, 251, 252, RELS 130, ANTH 208, PHIL 320, MUSI 207, LITR 264, PLSC 210 or ECON 102, two (2) 300-level elective, one elective from HIST 357, 353, 354, LITR 391, RELS 170, 230, 235; and ARAB 101, 102, 201, 202. A study abroad experience is also required.

Requirements - Minor:

Requirements for Minor 21 hours. GLBS 101, 102, 300 plus 12 hours within area concentration, three of which must be at the 300 level.

Graphic Arts and Design

College: College of Liberal Arts

Department: Communication Arts/Fine Arts

Student Type: Traditional Undergraduate

Faculty:

Christopher Birks, M.A.

Luigi Manca, Ph.D.

Teresa Parker, M.F.A.

William Scarlato, M.F.A.

Instructors:

Vincent Lucarelli

David Marcet

Jennifer Scavone

Objectives:

The goals of the program reflect the Liberal Arts tradition of Benedictine University, the two disciplines of Communication Arts and Fine Arts, and a most adequate facility to realize our goals in.

Major Requirements:

Graphic Arts and Design major must complete each of the following courses with a grade of "C" or better: FNAR 101(3), FNAR 111(3), FNAR 203(3), FNAR 204(3), FNAR 205(3), FNAR 240(3), FNAR 260(3), FNAR 261(3), FNAR 292(3), FNAR 293(3), FNAR 300(3), COMM 208(3), COMM 353(3), COMM 381(3), GAD 297(2), GAD 393(3), 3 hours in a three dimensional course, and one of the following – FNAR 240(3), FNAR 241(3), FNAR 242(3), FNAR 243(3), or FNAR 250(3). In addition, major must complete six hours in a modern language.

Health Science

College: College of Science

Department: Biological Sciences

Student Type: Traditional Undergraduate

Faculty:

Preston Aldrich, Ph.D., Department Chair

Pedro del Corral, Ph.D., M.D.

Cheryl Heinz, Ph.D.

Lawrence F. Kamin, Ph.D.

Alfred R. Martin, Ph.D.

Robert C. McCarthy, Ph.D.

Philip Novack-Gottshall, Ph.D..

Robin Pals-Rylaarsdam, Ph.D.

Jayashree Sarathy, Ph.D.

LeeAnn Smith, Ph.D., Assistant Department Chair

Rev. Theodore D. Suchy, O.S.B., M.S., Professor Emeritus†

Donald B. Taylor, Ph.D., Provost and Vice President for Academic Affairs

Monica Lee Tischler, Ph.D.

Allison K. Wilson, Ph.D.

Program Director: Pre-professional Health Programs

Alice N. Sima, RN, M.S.N., M.B.A.,

Lab Coordinators:

William Carvell, Ph.D., Jason Adams, M.S.

Lecturers:

Jason Adams, M.S.

Christine Beatty, Ph.D.

Jesse Biehl, Ph.D.

Pat Blaney, D.D.S.

William Carvell Ph.D.

Vandana Chinwalla, Ph.D..

Thomas Cornwell, M.D.

Dominic Costabile, D.O.

Tanya Crum, Ph.D.

Abigail Derby, Ph.D.

Philip DuPont, M.D. Ph.D.

Jenna Eisenberg, D.C.

Peter Gallos, D.D.S.

Richard Grossberg, Ph.D.

Kathryn Kennedy, D.D.S.

Tom Knutson, M.S.
Sharon Luckhardt, O.D.
David Maze, O.D.
Greg Munie, Ph.D.
Daniel Olson, Ed.D.
Scott Padalik, M.D.
Aimee Paran, M.S.
David Piazza, M.D.
Leonard Piazza, M.D.
Mark Poch, Ph.D.
Joseph Podojil, Ph.D.
Roli Prasad, Ph.D.
Terrence Puryear, Ph.D.
Adam Reimel, M.S.
Stephen Rowley, M.D.
Jeffery Samburg, M.S. CES
Brian Saso, M.S.
Nancy Schubert, D.O.
Regina Schurman, Ed.D., RCEP, CPA
Elizabeth Shaffer-McCarthy
Anne Marie Smith, M.S.
Veronica Stellmach, Ph.D.
Greg Stevens, D.M.D.
Paula Tomczak, Ph.D.
Daryl Wilson, M.D.
Susan Yazdanmehr, M.D., M.P.H.
Dave Zanghi, M.S., MBA, ATC/L, CSCS, FFACVPR

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Campus: Springfield Branch Campus

Division: Natural/Computational Sciences

Student Type: Traditional Undergraduate

Faculty:

Rick Rossetto, M.C.S., Division Chair
Gwen Baumann, Ph.D.
Torrie Buchanan, Ph.D.
Wayne Burrows, M.D.

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Brian Carrigan, Ph.D.
Sylvia Fromherz, Ph.D.
David Holland, M.A.
Julia Leischner, M.A.

Program Coordinator, Pre-Professional Programs: Todd Lafrenz, Ph.D.

Objectives:

The program for majors in health science offers:

1. Students, who are interested in health-related careers, the freedom and flexibility to design a curriculum in advanced science courses which are appropriate to their interests;
2. Clinical experience for academic credit, in one or two health science specialties; and
3. Exposure to advisors and faculty who are both basic scientists and health care specialists.

The Health Science degree program is designed to:

1. Prepare students for professional study in medicine, dentistry, veterinary medicine, other biomedical specialties and related health careers;
2. Expose students to current biological issues within a liberal arts context;
3. Introduce the range of biological levels of organization - from molecular and cellular biology to systemic biology; and
4. Integrate physical, chemical and mathematical principles in the study of biological systems.

Acceptance into the Biological Sciences Program:

A student will gain acceptance to the Health Science major through the Biological Sciences program by completing BIOL 197, BIOL 198, CHEM 113, and CHEM123 with a grade of "C" or better in each of these courses, and receiving no more than a total of three "D" or "F" grades in these courses, wherein two "W" grades count as a single "D/F" grade. The entire introductory sequence of BIOL 197, BIOL 198, CHEM 113, and CHEM123 must be completed prior to taking any 200-level courses in BIOL. A transfer student will gain acceptance by meeting these requirements through equivalent transfer courses. Additionally a transfer student must earn a GPA of 2.5 or above in all major classes (excluding labs) during the first semester at BU in order to be accepted into the Biological Sciences program.

If it is determined at any time that a student cannot gain acceptance to the Biological Sciences program or cannot graduate with a Biological Sciences degree, the student will be required to change his or her major and seek academic advising outside of that program.

Requirements - Major:

The minimum Health Science major consists of 68 semester hours of coursework completed with grades of "C" or better. The health science major must complete: BIOL 197(3), 198(3), 199(1), 203(4), 208(4), 229(3), 250(3), 258(4), 340(3) CHEM 113(3), 114(1), 123(3), 124(1), 242(3), 243(1), 247(3), 248(1); PHYS 113(3), 114(1), 118(3), 119(1); MATH 111(3) or proficiency in MATH 111 or higher; BCHM 261(3) or 361(3); twelve hours of natural science electives at the 200 level or above, including five hours at the 300 level. Research does not count towards the 300 level requirement. BCHM 361 is considered a 300-level course but not a science elective in this major. All health science majors are

required to take the capstone writing intensive course, BIOL 393(1).

Practicum is considered a science elective and is strongly encouraged for students intending to attend professional schools. Approved Nutrition electives are: NUTR 200(3) or 241(3), 341(3), 345 (3), 371(4) and selected 390(1-3). We encourage students to further their learning by assisting in labs. However, only two credits in BIOL 292, CHEM 295 and PHYS 296 will count towards the Health Science major.

Transfer students are required to take BIOL 299(1) in addition to BIOL 197,198 (and 199 if lab credit is transferred). BIOL 299 will count as a 200-level credit in the major.

A student majoring in Health Science may only earn one major in the biochemistry/molecular biology, biology, chemistry, environmental science, health science, physics and medical humanities programs.

Requirements - Other:

The 4+1 program offers a Bachelor of Science degree in Health Science in four years of full-time study and a Master of Science degree in Clinical Exercise Physiology after just one additional year of graduate work.

In addition to the University requirements, the student in this 4+1 program must complete with a grade of "C" or better: BCHM 261 or 361(3); BIOL 197(3), 198(3), 199(1), 203 (4), 229 (3), 258 (4), 358 (3) 368 (3); CHEM 113 (3), 114 (1), 123 (3), 124 (1), 242 (3), 243 (1), 247 (3), 248 (1); HLSC 321 (1), 322 (1), 360 (3), 361 (3), 380 (2), 390 (2), 392 (3); MATH 111 (3); NUTR 241 or 200 (3); PHYS 113 (3), 114 (1), 118 (3), 119 (1), and an ethics course (PHIL or RELS/THEO core).

Admission to the graduate part of the program (last year of undergraduate courses) is not automatic. A GPA of 3.2/4.0 and application to Clinical Exercise Physiology program is required for admission consideration.

History

College: College of Liberal Arts

Department: History, Philosophy and Religious Studies

Student Type: Traditional Undergraduate

Faculty:

Vincent Gaddis, Ph.D., Department Chair

Susan Mikula, Ph.D.

Fannie Rushing, Ph.D.

Lecturers: Christine Isom-Verhaaren, Ph.D.

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Campus: Springfield Branch Campus

Division: Humanities/Social Sciences

Student Type: Traditional Undergraduate

Faculty: Patricia Giacomini, M.S., Division Chair

Objectives:

History is a vital part of any liberal arts education, providing students with a perspective of events that have shaped the contemporary world. The study of history also develops practical skills. At Benedictine University, history students learn how to conduct research, write clearly and persuasively, think logically, and read documents critically. Students completing the history program are well prepared to apply to professional schools, tackle advanced study in areas such as law, business, or history, and work in almost any career.

Courses in history are designed to:

1. Provide you with an opportunity to understand humanity by studying its experiences;
2. Encourage you to analyze the systems of ideas and institutions developed over the centuries;
and
3. Offer you a historical perspective in dealing with contemporary social problems.

The program for majors in history is designed to:

1. Develop your understanding of western civilization, both European and American;
2. Provide you with an acquaintance with non-Western areas of the world;

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3. Expose you to the richness and vigor of conflicting viewpoints on historical questions;
4. Develop critical skills of analysis, evaluation and synthesis;
5. Develop your research, organization and writing abilities; and
6. Develop your own personal philosophy of history.

Requirements - Major:

Students majoring in history must complete at least 36 hours in this field with a grade of "C" or better. At least 24 semester hours must be at the 200 level or above, of which at least nine semester hours must be at the 300 level. The 36 hours must include HIST 111(3), 112(3), 203(3), 240(3) and 399(3). In the hours above 203(3), students must take at least one course each in American, European and non-Western history. History majors are required to demonstrate competency in a foreign language by completion of at least one foreign language course at or above the 202 level. History majors must take HUMN 220(3), 230(3) and 250(3) in the Cultural Heritage core. Transfer students must take HUMN 240(3) and 250(3) as CORE and substitute HIST 101(3), or equivalent, for HIST 240(3).

History major for pre-law students:

There is no single major that is either required or recommended for admission to law school, according to the "Statement on Pre-legal Education of the Association of American Law Schools." Instead, that statement recommends an education for: "comprehension and expression in words; critical understanding of the human institutions and values with which the law deals; and, creative power in thinking." The American Bar Association issued, in 1980, a report on Law Schools and Professional Education in which it applied the above skills to various areas of the university curriculum. In applying them to history, the report stated that: "A separate, distinct justification for the study of history is sometimes offered. Law students often encounter concepts that are intelligible only in terms of their historical roots." If you are interested in law school and choose history as a major you are advised to take as your advanced history electives: HIST 223(3) and 253(3). The following courses are strongly recommended: ECON 101(3), ACCT 111(3) and a statistics course.

Requirements - Minor:

A minor in history consists of at least 21 hours of courses completed with a "C" or better from history courses. At least 12 semester hours must be at the 300 level. Students must complete HIST 111(3), 112(3), and 203(3).

Requirements - Teaching Certification:

If you desire to be certified to teach history at the secondary level (grades 6-12), you are ordinarily required to major in social science with a history concentration. See the program requirements under the social science major. You must also complete the Teacher Certification Program in Secondary Education which includes an education minor, described in the education section.

International Business and Economics

College: College of Business

Department: International Business and Economics

Student Type: Traditional Undergraduate

Faculty:

J. Timothy Goines, Ph.D., Department Chair

Soyon Lee, Ph.D., CPA

Isobel Lobo, Ph.D.

Jack Thornburg, Ph.D.

Objectives:

The program and courses are designed to:

1. Evaluate the role of economics and business in the social environment of different cultures;
2. Articulate how the functional areas of business interrelate within multi-national organizations;
3. Improve skills in communication, analytical thinking and appreciating the human element in organizations;
4. Develop specific skills applicable to the various aspects of the functional areas of business; and
5. Show how culture influences business attitudes and behaviors.

The program and major are designed to:

1. Prepare you for entry level positions;
2. Enable you to perform effectively in professional and career positions in management; and
3. Prepare you for graduate and professional study in business and international business related fields.

All students in these programs will receive a thorough grounding in:

1. Economics (the theoretical basis for the discipline);
2. Mathematics and statistics (the tool subjects);
3. The principles pertinent to all of the functional areas of business, accounting, finance, management and marketing, in an integrated manner and with adequate focus on the international aspects of each; and
4. The study and appreciation of international cultural backgrounds and in the skills needed for international business.

Anthropology courses are offered as a service to fulfill requirements of the International Business and Economics Program, and to broaden the range of social science available to other interested students.

IBE Degree Requirements for study abroad:

Objectives-To ensure an international experience for International Business and Economics majors,

the IBE degree will require students to participate in a study abroad (short-term faculty led, semester or yearlong).

Student Learning Outcomes: To obtain a firsthand look at the topics that affect and are affected by international business and economics.

Requirements - Major:

International business and economics majors must complete the university core requirements. Majors in this program must also complete MATH 115 (3). In addition, majors must complete with a grade of "C" or better the following courses some of which fulfill core requirements: at least 18 hours of modern language and/or cultural studies*, 3 hours of history*, 6 hours of political science*, 3 hours of anthropology/sociology*, and ECON 101 (3) and 102 (3). In addition, the following program courses must be completed with a grade of "C" or better: MGT 150 (3), ECON 202 (3), ACCT 111 (3), INTB 380 (3); and at least four 300-level INTB courses, one of which can be substituted by a course in ECON, FINA, MGT or MKTG with the consent of the department chair.

*These courses must have an international focus and be approved by the program faculty.

CLEP, life experience, work experience, and advanced placement do not substitute for upper level (300) courses.

An internship may substitute for one 300-level course with the approval of the department chair.

A student may have only one major in the accounting, business and economics, economics, finance, health administration, international business and economics, management and organizational behavior, and marketing programs.

The international business and economics major may elect to minor in accounting, business and economics, economics, finance, health administration, management and organizational behavior, or marketing. Please see program requirement for each of these minors.

Requirements - Minor:

Students seeking a minor in international business and economics must complete with a grade of "C" or better 24 semester hours which must include ECON 101(3), 102(3), and either 202(3) or INTB 380; and at least two 300-level courses in international business and economics; one anthropology course*; and one political science course*.

*These courses must have an international focus and be approved by the program faculty.

Students with majors in accounting, business and economics, economics, finance, management and organizational behavior, and marketing seeking the international business and economics minor must complete, with a grade of "C" or better: three 300-level courses in international business and economics beyond the requirements for the major program, and two courses from cultural studies, international political science or international history beyond core requirements.

Requirements - Other:

The study abroad experience may be a short-term, faculty-led study tour, a semester abroad at a foreign university, or a business internship abroad.

Other Information:

The international business and economics major is designed so that the entire degree is available through day classes. The international business and economics major is also offered in time periods and formats that are designed for the needs of adult learners, offered through evening and weekend classes.

What does a major in international business and economics at Benedictine University offer?

The international business and economics major offers you a combination liberal arts and business education with an international focus. When you major in international business and economics at Benedictine University, you will:

Become knowledgeable in international marketing, finance, trade and economics; a foreign language, history, international relations, international organizations and law; be introduced to the cultural and socio-economic background of international business practices; learn the skills needed to carry out business activities in the United States and abroad through the study of economics and accounting.

Students, usually in their junior year, will have the opportunity to study abroad in an established program and receive credit for the coursework they complete. Benedictine University has exchange programs with universities in Mexico, Japan, Denmark, Spain and France. Benedictine also has agreements with The Institute for Study Abroad (IFSA-Butler) and The American Institute for Foreign Study (AIFS). These independent organizations allow Benedictine University to expand students' opportunities to study abroad in areas such as South America, Asia, Eastern Europe, and Australia.

What careers are available with an international business and economics degree?

Career opportunities for students in the international business and economics program are numerous since many companies in the United States have overseas operations.

Jobs in export, import, international marketing, production, finance and banking are increasing and foreign companies are operating in the U.S. at an accelerated rate. Jobs in government agencies and non-profit organizations are also plentiful. Graduates of the international business and economics program at Benedictine University have a tradition of success in obtaining employment in their chosen field and many have pursued graduate studies upon completion of their undergraduate program or through their places of employment.

International Studies

College: College of Liberal Arts

Department: Political Science

Student Type: Traditional Undergraduate

Faculty:

Joel Ostrow, Ph.D., Department Chair

J. Timothy Goines, Ph.D.

Isobel Lobo, Ph.D.

Jack Thornburg, Ph.D.

Objectives:

To provide a Social Science approach to the study of the political, economic, social and business aspects of globalization, and the inter-connections between politics, economics and culture.

Student learning outcomes: To develop social science analytic skills to understand, explain and address the complexities of the increasing international inter-connections between politics, economics and culture.

Requirements - Major:

International Studies majors must complete, with a grade of "C" or better, the following courses: ECON 101(3), 102(3), and 305(3) or 360(3) or PLSC-217/317(3); PLSC 210(3); 215(3), and two PLSC electives numbered 310-329; ANTH 200(3) and 208(3) or 210(3); GEOG 106(3); and INTB 300(3). In addition, all students must complete an approved study abroad experience, which may be satisfied by ANTH 283, 292 or INTB 320 when these include a study abroad experience, or by another experience approved by the program faculty. A semester-length or longer experience is strongly recommended. All students must complete a foreign language through 212, or complete 2 languages through the 202-level, one of which may be demonstrated through a placement or proficiency exam.

Requirements - Minor:

Twenty-one semester hours with a grade of "C" or better are required. These must include ECON 101(3), PLSC 210(3); INTB 300(3), and one course each from the ECON, PLSC and ANTH courses listed above required for the major. In addition, one foreign language through the 202-level is required, as is a short-term study abroad experience.

Latin American Studies (Minor Only)

College: College of Liberal Arts

Department: Interdisciplinary

Student Type: Traditional Undergraduate

Faculty:

J. Timothy Goines, Ph.D.

Rafael Iglesias, Ph.D.

Joaquin Montero, Ph.D.

Jack Thornburg, Ph.D.

Beth Vinkler, Ph.D.

Objectives:

The program and courses are designed to:

1. Provide courses from a range of disciplines focused on Latin America;
2. Provide an interdisciplinary approach to the study of Latin America; and
3. Prepare students from any major at the University for work in Latin America or with Latin American colleagues, clients, patients and business partners by increasing their sensitivity to, and knowledge of, Latin American cultures.

Requirements - Minor:

A minor in Latin American Studies consists of 24 hours of courses completed with a "C" or better from designated courses. At least 12 semester hours must be at the 200 level of which at least three semester hours must be at the 300 level.

Required courses (18 hours): ANTH 210(3); SPAN 201(3)/202(3); INTB 320(3) or ECON 391(3); ANTH 283(3) or HIST 191(3); and PLSC 391(3).

Elective Courses (six hours): SPAN 221(3), 231(3), 291(1), 232(3); INTB 391(1). Students are encouraged to study abroad or do an internship abroad.

Management (Bachelor of Arts)

College: Margaret and Harold Moser College of Adult and Professional Studies

Department: Adult and Professional Studies

Student Type: Adult Accelerated Undergraduate

Campus: Springfield Branch Campus

Division: Adult Programs

Student Type: Adult Accelerated Undergraduate

Faculty: Janet Kirby, Ph.D., Division Chair

Objectives:

This program and courses are designed to:

1. Articulate how the functional areas of business interrelate within organizations;
2. Improve skills in communication, analytical thinking and appreciating the human element in organizations;
3. Evaluate the role of economics and business in the social environment of our culture; and
4. Develop specific skills applicable to various aspects of the functional areas of business.

This program is designed to:

1. Enable you to perform effectively in professional and career positions in management; and
2. Prepare you for graduate and professional study in business or management.

All students in this program will receive a thorough grounding in:

1. Economics (the theoretical basis for the discipline);
2. Mathematics (the tool for the discipline); and
3. The principles pertinent to all of the functional areas of business, accounting, management, information technology and marketing, in an integrated manner and with adequate focus on strategic management.

The Bachelor of Arts in Management program is offered in a learning-team/blended format through evening and weekend classes, as well as in a fully online format. These options provide time periods and formats designed for the needs of adult learners. Bachelor of Arts in Management students must complete a minimum of 120 semester credit hours for degree completion. The online courses are restricted to students admitted into the adult online program.

Requirements – General Education

1. Successful completion of the following basic skills courses with a grade of "C" or better: WRIT 101(3), WRIT 102(3), SPCH 110(3), and MATH 105(3).
2. Successful completion of the following liberal arts requirements: Three arts and humanities core courses, including PHIL 245(3) and at least one course from a

discipline other than philosophy; two natural sciences core courses from at least two of the areas of life sciences, physical sciences, or math/computer science; three social sciences core courses, which must include PSYC 100(3) or PSYC 210(3), plus ECON 101(3) and ECON 102(3). Both ECON 101 and 102 must be completed with a grade of "C" or better.

3. Successful completion of HUMN 240(3) and HUMN 250(3) to meet the Cultural Heritage requirement.

Requirements – Business Cognates

Bachelor of Arts in Management students must complete the following business cognate courses with a grade of "C" or better: MGT 150(3), ACCT 111(3), and ACCT 112(3).

Requirements – Major

Bachelor of Arts in Management students must complete the following major courses with a grade of "C" or better: MGT 217(3) which must be the first course taken, MGT 247(3), CIS 127(3), ECON 227(3), MKTG 300(3), MGT 320(3), MGT 251(3), MGT 330(3), MGT 302(3), MGT 275(3), MGT 347(3), and MGT 387(3). As the capstone course, MGT 387 should be one of the last two major courses taken.

Transfer Credits

Transfer credits for major courses and MATH 105 will not be accepted after a student starts the Bachelor of Arts in Management program. The following courses must be completed at Benedictine University: HUMN 240(3), HUMN 250(3), MGT 217(3), MGT 247(3), CIS 127(3), and MGT 387(3).

Writing Assessment

The University expects all Adult Accelerated students to possess at the time of admission the appropriate writing skills that are necessary for success in the program. Therefore, all applicants are required to complete an assessment of their writing skills prior to starting the program. Students that score below a college writing level will be required to enroll in a developmental writing course and earn a grade of 'C' or better.

Work /Life Experience Credits

General elective credit hours may be demonstrated through the Prior Learning Assessment program by the submission and approval of a Work/Life Experience portfolio. Students need to complete all of the requirements of the Prior Learning Assessment program within one year of starting their degree program. The maximum number of credits that may be obtained through work/life experience is 18 semester hours.

Concentrations

For Bachelor of Arts in Management students, optional concentrations provide an opportunity to expand knowledge in different areas. Each concentration is composed of four courses for a total of 12 semester hours of credit. In order to qualify for a concentration, a grade of "C" or above must be obtained for each course. The following two concentrations are available:

- The Human Resources Management Concentration requires completion of the following courses: MGT 262(3), MGT 264(3), MGT 266(3), and MGT 270(3).). It is recommended that students complete MGT 330 prior to taking the concentration courses.
- The Marketing Concentration requires completion of the following courses: MKTG 310(3), MKTG 330(3), MKTG 331(3), and MKTG 350(3).

Other Information:

Certificate Programs: The Certificate programs provide a concentrated focus for those professionals looking to expand their knowledge in a particular area. Each program is composed of an 18 credit hour series of six online courses. Courses are five to eight weeks in length. Instructional methods include lectures, simulations and case studies. Each class forms online interactive learning teams to assist in the learning process. All students interested in entering a certificate program should contact their academic advisor. Certificates are offered in the areas of:

Human Resources Management

The Human Resources Certificate program is designed to meet the needs of those students interested in entering the field of Human Resources as well as experienced HR professionals interested in expanding their knowledge and career potential. This series focuses on the fundamental issues related to employee recruitment, training and retention strategies, employee relations, performance appraisal, compensation and benefits, and employment law.

Certificate Eligibility: Successfully completing all six courses in a program qualifies a student for the corresponding Academic Certificate. All courses must be completed with a grade of "C" or better in order to be eligible for the certificate.

Application for Certificate: To apply for the Certificate, students must submit the Application for Graduation form, specifying the Certificate Area on the application and sending the completed form to Ben Central with appropriate fee.

Management and Organizational Behavior

College: College of Business

Department: Undergraduate Business

Student Type: Traditional Undergraduate

Faculty:

Deborah Cernauskas, M.S., M.B.A., Ph.D., Department Chair

Charles L. Gahala, M.B.A., Ed.D., CCE

Donald Henschel, M.B.A., CPA

Nona Jones, Ph.D.

Jeffrey Madura, M.B.A., CPA

Vicki Jobst, M.B.A., D.B.A., CPA

Campus: Springfield Branch Campus

Division: Business

Student Type: Traditional Undergraduate

Faculty: Joana Ramsey, M.S., Division Chair

Campus: Springfield Branch Campus

Division: Adult Programs

Student Type: Adult Accelerated Undergraduate

Faculty: Janet Kirby, Ph.D., Division Chair

Objectives:

This program and courses are designed to:

1. Evaluate the role of economics and business in the social environment of our culture;
2. Articulate how the functional areas of business interrelate within organizations;
3. Improve skills in communication, analytical thinking and appreciating the human element in organizations; and
4. Develop specific skills applicable to the various aspects of the functional areas of business.

This program and major are designed to:

1. Prepare you for entry level positions;
2. Enable you to perform effectively in professional and career positions in management; and
3. Prepare you for graduate and professional study in business or management.

All students in this program will receive a thorough grounding in:

1. Economics (the theoretical basis for the discipline);
2. Mathematics and statistics (the tool subjects);
3. The principles pertinent to all of the functional areas of business, accounting, finance, management, and marketing, in an integrated manner and with adequate focus on their international aspects; and
4. The important functional areas of management; including human resources, operations management, organizational behavior and the management process of planning, implementation and control.

The management and organizational behavior major is designed so that the entire degree is available through day classes for the traditional undergraduate students. The management and organizational behavior major is also offered in time periods and formats that are designed for the needs of adult learners, offered through evening and weekend classes.

Requirements - Major:

Management and organizational behavior majors must complete the University core requirements, which are partially satisfied by MGT 252 Business Ethics (which also counts as religion core) or one core approved philosophy course in ethics, MATH 105(3) or MATH 110 (3), and MATH 115(3). All business majors must complete CMSC 180 and one of CMSC 181 through 184, depending on the student's background. CMSC 181 should be taken by students who believe they already have a background in the Office Suite. CMSC 183 or 184 is recommended for those students who need to develop skills using the Office Suite. ACCT 310 may be substituted for CIS/CMSC 180, 181/183, with advisor approval.

Majors must complete each of the business core courses with a "C" or better: ACCT 111(3), 112(3); ECON 101(3), 102(3); FINA 300(3); MKTG 300(3); MGT 150(3), MGT 251(3) or BALT 301(3), and MGT 300(3).

Majors must complete with a "C" or better: MGT 320(3), 330(3), 333(3), 380 and two courses from among MGT 301(3), 302(3), 303(3), 305(3), 323(3), 334(3), 335(3), 347(3), MGT 235(3), 237(3), ACCT 311(3), or an international business elective at the 300 level.

Students in the Second Major Program that is housed outside of the department must complete the ethics, mathematics and computer science requirements of the first paragraph above and all of the requirements of the second and third paragraphs above.

CLEP, life experience, work experience, internships, advanced placement and other external credit do not substitute for upper level (300) courses.

Management and Organizational Behavior majors who elect to earn a second major in the Undergraduate Business Department must complete "specialization courses" for the second business major. Specialization courses may only be used to satisfy the requirement for one business major.

Requirements - Minor:

Only courses in which a student has received a "C" or better may be applied to the minor. Students are limited to one minor in the accounting, business and economics, economics, finance, international business and economics, management and organizational behavior, and marketing programs. Students (except Bachelor of Arts in Management students) seeking a minor in management and organizational behavior must complete with a grade of "C" or better 21 semester hours which must include ECON 101(3), 102(3); ACCT 111(3); MGT C300(3); and at least three unique 300-level courses in management. A Bachelor of Arts in Management student may not minor in Management and Organization Behavior. A student who majors in management and organizational behavior may not earn a minor in the undergraduate business department.

Sports Management Minor: intended for traditional, undergraduate students who are in a major outside of the UBD. This program provides an opportunity for non-business majors to gain a focus upon the opportunities and to hone the skills essential to the sports management field.

Requirements: Seven courses; 21 semester hours to be completed as follows: MKTG 305, MGT 235, 300, 301, 305, 320, and 330.

Requirements - Concentration:

Management and Organizational Behavior majors must select a concentration (main campus only). Concentrations in Business Analytics, Integrated Marketing Communications, Managing Human Resources, Operations Management, Personal Financial Planning, Sports Management and Sports Marketing are available in combination with this major. Requirements listed below must be completed with a "C" or better.

Business Analytics Concentration: BALT 310, BALT 320, BALT 330 and BALT 340.

Integrated Marketing Communications Concentration: MKTG 330, 331, 332, 333 and COMM 208.

Managing Human Resources Concentration: MGT 330, 334, 335 and one of MGT 235, 302 or 320.

Operations Management Concentration: MGT 333, BALT 350, INTB 340, and MGT 235.

Personal Financial Planning Concentration: FINA 220, 320, ACCT 312 and one of MGT 235 or ACCT 120 along with FINA 120.

Sports Management Concentration: MGT 305, MKTG 305 and two courses from MGT 235, 297, 301.

Sports Marketing Concentration: MKTG 305, MGT 305 and two courses from MKTG 297, 330, INTB 371.

Marketing

College: College of Business

Department: Undergraduate Business

Student Type: Traditional Undergraduate

Faculty:

Deborah Cernauskas, M.S., M.B.A., Ph.D., Department Chair

Charles L. Gahala, M.B.A., Ed.D., CCE

Nona Jones, Ph.D.

Jeffrey Madura, M.B.A., CPA

Donald Henschel, M.B.A., CPA

Vicki Jobst, M.B.A., D.B.A., CPA

Campus: Springfield Branch Campus

Division: Business

Student Type: Traditional Undergraduate

Faculty: Joana Ramsey, M.S., Division Chair

Objectives:

This program and courses are designed to:

1. Evaluate the role of economics and business in the social environment of our culture;
2. Articulate how the functional areas of business interrelate within organizations;
3. Improve skills in communication, analytical thinking and appreciating the human element in organizations; and
4. Develop specific skills applicable to the various aspects of the functional areas of business.

This program and major are designed to:

1. Prepare you for entry level positions;
2. Enable you to perform effectively in professional and career positions in management; and
3. Prepare you for graduate and professional study in business or management.

All students in this program will receive a thorough grounding in:

1. Economics (the theoretical basis for the discipline);
2. Mathematics and statistics (the tool subjects);
3. The principles pertinent to all of the functional areas of business, accounting, finance, management and marketing, in an integrated manner and with adequate focus on their international aspects; and
4. Marketing strategy involving decisions on markets, product, price, promotion and place of distribution.

The marketing major is designed so that the entire degree is available through day classes.

Requirements - Major:

Marketing majors must complete the University core requirements, which are partially satisfied by MGT 252 Business Ethics (which also counts as religion core) or one core approved philosophy course in ethics, MATH 105(3) or MATH 110(3), and MATH 115 (3). All business majors must complete CMSC 180 and one of CMSC 181 through 184, depending upon the student's background. CMSC 181 should be taken by students who believe they already have a background in the Office Suite. CMSC 183 or 184 is recommended for those students who need to develop skills using the Office Suite. ACCT 310 may be substituted for CIS/CMSC 180, 181/183, with advisor approval.

Majors must complete each of the business core courses with a "C" or better: ACCT 111(3), 112(3); ECON 101(3), 102(3); FINA 300(3); MKTG 300(3); MGT 150(3), MGT 251(3) or BALT 301(3), and MGT 300(3).

Majors must complete with a "C" or better: MKTG 310(3), 330(3), 360(3), 380(3); and two from among ECON 202(3), ACCT 311(3), FINA 380(3), MKTG 305(3), 350(3), 331(3), 333(3) MGT 301(3), 305(3), 320(3), 333(3), COMM 208(3) or 263 (3).

Students in the Second Major Program that is housed outside of the department must complete the ethics, mathematics and computer science requirements of the first paragraph above and all of the requirements of the second and third paragraphs above.

CLEP, life experience, work experience, internships, advance placement and other external credit do not substitute for upper-level (300) courses.

Marketing majors who elect to earn a second major in the undergraduate business department must complete the unique specialization courses for the second business major. Specialization courses may only be used for satisfying the requirements for one business major.

Requirements - Minor:

Only courses in which a student has received a "C" or better may be applied to the minor. Students are limited to one minor in accounting, business and economics, economics, finance, international business and economics, management and organizational behavior or marketing. Students (except Bachelor of Arts in Management students) seeking a minor in marketing must complete with a grade of "C" or better 21 semester hours, which must include ECON 101(3); 102(3); ACCT 111(3); MKTG 300(3), and at least three unique 300-level courses in marketing. A Bachelor of Arts in Management student seeking a minor in Marketing must complete with a grade of "C" or better the following courses and their prerequisites: MKTG 305, MKTG 310, MKTG 330, MKTG 350, MKTG 360 and MKTG 380. A student who majors in marketing may not earn a minor in the undergraduate business department.

Sports Marketing Minor: intended for traditional, undergraduate students who are in a major outside of the UBD. This program provides an opportunity for non-business majors to gain a focus upon the opportunities and to hone the skills essential to the sports marketing field. Requirements: Seven

courses; 21 semester hours to be completed as follows: MKTG 305, 330, INTB 385, MGT 235, 305, 300 and MKTG 300.

Concentrations in Business Analytics, Integrated Marketing Communications, Managing Human Resources, Operations Management, Personal Financial Planning, Sports Management and Sports Marketing are available in combination with this major. Requirements listed below must be completed with a "C" or better.

Requirements - Concentration:

Business Analytics Concentration: BALT 310, BALT 320, BALT 330, and BALT 340.

Integrated Marketing Communications Concentration: MKTG 330, 331, 332, 333 and COMM 208.

Managing Human Resources Concentration: MGT 330, 334, 335 and one of MGT 235, 302 or 320.

Operations Management Concentration: MGT 333, BALT 350, INTB 340, and MGT 235.

Personal Financial Planning Concentration: FINA 220, 320, ACCT 312 and one of MGT 235 or ACCT 120 along with FINA 120.

Sports Management Concentration: MGT 305, MKTG 305 and two courses from MGT 235, 297, 301.

Sports Marketing Concentration: MKTG 305, MGT 305 and two courses from MKTG 297, 330, INTB 371.

Only students who major in accounting, business and economics, finance, marketing or management and organizational behavior may complete the concentration.

Mathematics

College: College of Science

Department: Mathematics

Student Type: Traditional Undergraduate

Faculty:

Timothy Comar, Ph.D.
Anthony DeLegge, Ph.D.
Manmohan Kaur, Ph.D.
Jeremy Nadolski, Ph.D.
Thomas Wangler, Ph.D.
Ellen Ziliak, Ph.D.
Rose A. Carney, Ph.D., Professor Emeritus†
Rev. Paul Tsi, Ph.D., Professor Emeritus†
Phyllis M. Kittel, Ph.D., Professor Emeritus
James M. Meehan, D.A., Professor Emeritus†

Lecturers:

Beth Dunn, M.Ed.
Marian Flattum, M.S.
Andrea Holba, M.Ed.
Hillary Holecek, M.S.
Dhananjay Joshi, M.S.
Ken Leszczynski, M.S.
Chris Nelson, M.S.
Kathleen Ramsey, M.A.
Viola Vajdova, M.Sc., M.Ed.
Holly Wangler, M.A.
Dennis Wozniak, M.S.

The lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Objectives:

General education courses in mathematics are designed to develop the quantitative skills you will need as an educated person and for use in other disciplines. The program for majors is designed to:

1. Develop your abilities in disciplined mathematical reasoning and problem solving;
2. Teach you the basic techniques and models of the mathematical sciences; and

3. Prepare you for graduate study in pure mathematics, applied mathematics, statistics, operations research, or computer science, as well as for careers as mathematical analysts, actuarial scientists and as high school or college teachers.

Acceptance into the Mathematics Program:

A student will gain acceptance to the Mathematics program by completing the introductory sequence of MATH 210, 211, 212 with a GPA of 2.50 or above and a grade of "C" or better in each of these courses. A transfer student will gain acceptance by meeting these requirements through equivalent transfer courses. Additionally a transfer student must earn a GPA of 2.5 or above in all major classes (excluding labs) during the first semester at Benedictine in order to be accepted into the Mathematics program.

If it is determined at any time that a student cannot gain acceptance to the Mathematics program or cannot graduate with a Mathematics degree, the student will be required to change his or her major and seek academic advising outside of that program.

Requirements - Major:

Students seeking a major in mathematics must complete, with a grade of "C" or better, a minimum of 37 hours of mathematics coursework at the 200 level or above, including MATH 200(4) or 210(4) and 207(1), 211(4), 212(4), 260(4), 300(3), 331(3), 341(3), and 6 more credit hours at the 300 level. This coursework must include one sequence from the following: 331-332, 341-342, 260-361, 310-350, or 371-373. In the second course of the sequence, students must complete a written report and an oral presentation on a topic related to the subject matter of the course. MATH 399(3-6), Internship, does not count as 300-level coursework. MATH 397(1-3) and 398(1-3), Mathematical Research I and II, does count as 300-level coursework up to a maximum of 3 hours. Students must also take an externally administered comprehensive mathematics examination and achieve the proficiency level set by the department.

Requirements - Minor:

Students seeking a minor in mathematics must complete, with a grade of "C" or better "C" or better, at least 21 hours of mathematics coursework at the 200 level or above, including 6 hours at the 300 level. MATH 399 does not count as 300-level coursework. MATH 397 and 398 can be counted toward the 21 hours, but only if student has 6 hours of mathematics coursework at the 300 level.

Requirements - Concentration:

Students seeking a concentration in actuarial science must satisfy the requirements for a math major and complete the following courses with a "C" or better: MATH 370(3), 371(3), 373(3) and either ECON 101(3) or 102(3). Actuarial science students are encouraged to minor in one of the following areas: accounting, business and economics, economics, finance, international business and economics, management and organizational behavior or marketing. In addition to completing a minor in one of the above areas, students are encouraged to take the actuarial exams as early as possible, usually in the junior year. It is strongly recommended that students pass the first two courses (=actuarial exams) before graduation.

Requirements - Teaching Certification:

Students desiring to be certified to teach mathematics at the secondary level (grades 6-12) are to declare themselves as mathematics majors and education minors and register with the Benedictine University School of Education as teaching certificate candidates. Advisement is then a joint responsibility of the mathematics and the education programs. Students must complete MATH 240 (4), 310 (3), 312 (3), 371 (3) and 373 (3) as part of the major requirements and CMSC 180 (2) and CMSC 181 (2) in addition to the other course requirements for a major in mathematics.

Medical Humanities

College: College of Liberal Arts

Department: Language and Literature

Student Type: Traditional Undergraduate

Administrators: Elizabeth Kubek, Ph.D., Program Director

Objectives:

The Medical Humanities major is designed to prepare students for medical school, graduate work in interdisciplinary science/humanities programs, or other profession careers that require advanced work at the intersections of the life sciences and the humanities. The coursework for the major reflects both the emergence of Medical Humanities as a graduate-level discipline at highly selective medical schools and universities and the increased preference of all medical schools for applicants with a significant background in the humanities.

The goals of the Medical Humanities Program at Benedictine University are as follows:

- To foster students' awareness of the interconnectedness and relevance to life of the disciplines which are the object of academic study;
- To expose students to the current ideas and practices that "humanize" the medical sciences, and vice versa;
- To encourage students to make productive connections between their practical knowledge, their daily activities, their ethical values, and their relations with other beings and with the environment;
- To foster a spirit of collaboration between students and faculty, and provide students with opportunities to work closely with faculty and professionals;
- To educate future professionals who are both accomplished in their fields and engaged, responsible global citizens;
- To promote the creation of a medical community that includes regard for the patient and for practitioners as whole persons;
- To provide future professionals with critical and ethical tools that will enable them to transform their profession and to remain informed and engaged throughout their lives.

Requirements - Major:

Major requirements are as follows:

1. MCAT "Core" sequence: MATH 111 (3), CHEM 113 (3), 114 (1), 123 (3), 124 (1), 242 (3), 243 (1), 247 (3), 248 (1); BIOL 197 (3), 198 (3), 199 (1), 250 (3), 251 (1), 258 (4), 340 (3), plus 259 (1) or 203 (4) or 341 (1); BCHM 261 (3); PHYS 113 (3), 114 (1), 118 (3), 119 (1);
2. Proficiency in a modern language to 202 (up to 12 credit hours); or one year Latin, one year Greek (no proficiency option, although AP credit can be applied) (6 credit hours)
3. Interdisciplinary track A or B:
 - a. Five-course concentration in a CLA discipline (courses selected by the program director/Department Chair with input from faculty, approved by the Medical

Humanities Advisory Group; two at the 300 level), and five from a list of approved courses (selected by Departments) in CLA disciplines other than the concentration discipline. Concentration discipline not to "double-count" towards a minor but other five courses might. Must total at least 30 credit hrs. During the senior year, student will also complete and submit a final major research project (which must entail writing a paper of significant length), and must also have been approved (by signature) by two faculty members, at least one of whom must represent a CLA discipline, and who will supervise the student and grade the final project.

OR

- b. Self-Designed Medical Humanities Program. Ten courses, of which no more than four may be from a College other than CLA, and at least three of which must be at the 300 level; these courses should add up to a concentration in a field or topic appropriate to the Medical Humanities discipline (for examples, students should refer to such professional resources as the Medical Humanities central website at <http://medhum.med.nyu.edu> or the peer-reviewed journal Medical Humanities at <http://mh.bmj.com>). Students wishing to design such a program must submit a written rationale to the Medical Humanities Advisory Group for approval (by majority vote). This rationale must demonstrate a clear connection between the selected courses and a major senior research project (which must entail writing a paper of significant length), and must also have been approved (by signature) by two faculty members, at least one of whom must represent a CLA discipline, and who will supervise the student and grade the final project. The student's plan of study should be based on a reasonable expectation that the courses selected will be offered within the timeframe proposed for completion of the degree. Must total at least 30 credit hours.
4. Total of 40 documented service hours, normally by the end of the Junior year, at co-operating sites with medical service function (hospice, etc.), including sites abroad. All majors must meet practica requirements, including successful completion of BIOL 258 or 203, 30 Benedictine University hours earned, and a 3.2 GPA. These service hours may be integrated into the capstone course.
5. 300-level capstone course (3), Medical Humanities in Action, which includes group research project in interdisciplinary areas that serve the public interest, i.e. public health, epidemiology and policy, provider/patient relations, medicine "across borders" (disciplinary, global, cultural, etc.), health and medicine in schools; should involve team teaching, outside speakers, "authentic" work in the community.

Music

College: College of Liberal Arts

Department: Music

Student Type: Traditional Undergraduate

Faculty:

Luis E. Loubriel, D.M.A., Department Chair

Alicia Cordoba Tait, D.M.A.

Allen R. Legutki, Ph.D.

Wilbert Watkins, Ph.D.

Lecturers:

Aaron Stampfl, D.M.A..

Anne Kreft, M.M.

Br. Augustine Mallak, O.S.B.

Patrick Infusino

Fr. John Moulder, M.M.

Rev. John Palmer, C.S.V., Mus.M., A.R.C.T., L.Mus., F.T.C.L., Professor Emeritus

Marc Stingley, M.M.

Victoria VerHoven, M.M.

Angela Yang

The lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Objectives:

The music program and its courses are designed to:

1. Provide a strong foundation in music theory, aural skills, performance, music history, literature, technology, and education.
2. Provide opportunities to better understand and appreciate various kinds of music and their relationships to culture, education and history;
3. Combine musicianship with a liberal arts education to establish a base for both artistic and intellectual growth in a manner by which the student can understand, experience and articulate musical artistry within a variety of perspectives in which their skills can be of use to themselves and to society;
4. Provide an environment—through well-defined course offerings and nationally and internationally known music faculty—that guides the learning process within more intimate instructional settings that improves the students' practicing, rehearsing, and performance skills while developing disciplinary knowledge of history, repertoire, pedagogy and technology;

The information contained on this page is from the 2013-2014 Undergraduate Catalog and is valid until August 1, 2014.

5. Develop a mastery of performance practice through intimate ensemble experiences;
6. Develop a closer association with the audience and an increased understanding of the impact their music-making has on the community;
7. Create the professional musicians who are equipped with the skills and confidence necessary to be successful in any music career.

Requirements - Major:

Music majors are required to:

1. Audition for the department to show competencies in solo performance, scales and sight-reading;
2. Take a music entrance exam in theory, keyboard and aural skills.
3. Perform a music jury each semester.

The music major must complete at least 59 credit hours in music courses in performance, history, literature, and theory including 15 hours at the 300 level. Required major and cognate courses are: 200-level Applied Music(4), 300-level Applied Music(2), Ensembles (6), MUSI 101(3), MUSI 102(3), MUSI 104(3), MUSI 112(1), MUSI 113(1), MUSI 194(1), MUSI 195(1), MUSI 201(3), MUSI 202(3), MUSI 204(3), MUSI 205(3), MUSI 206(3), MUSI 212(1), MUSI 213(1), Junior and Senior recitals MUSI 250(1) and MUSI 350(2), MUSI 360(3), 300-level music electives (6), and Internship (2). Students must complete at least six credit hours in a secondary language.

Requirements - Minor:

Music majors are required to:

1. Audition for the department to show competencies in solo performance, scales and sight-reading;
2. Take MUSI 101 and MUSI 112 during their first semester;
3. Perform a music jury each semester.

Minor in Music (22 credits): 4 credit hours of Applied music (200-level Applied – must be continuously enrolled prior to MUSI 250), MUSI 101 (3), MUSI 112 (1), MUSI 205 (3), MUSI 206 (3), MUSI 300 elective (3), Ensembles (4 semesters minimum), MUSI 250 – Junior Recital (1)

Music Education

College: College of Liberal Arts

Department: Music

Student Type: Traditional Undergraduate

Faculty:

Luis E. Loubriel, D.M.A., Department Chair

Alicia Corboda-Tait, D.M.A.

Allen R. Legutki, Ph.D.

Wilbert Watkins, Ph.D.

Objectives:

The primary objectives and practical purpose of a Bachelor of Arts in Music Education, to be part of the Department of Music and Department of Education offerings, is to provide a well-rounded, liberal arts education for students who wish to engage in a career as music educators in elementary, junior high, and high school private or public educational institutions. The primary objectives for the Bachelor of Arts in Music Education include the acquisition of the essential conceptual knowledge in music history, music theory, and music performance coupled with the development of the technical skills necessary for composing and producing, interpreting, performing, listening, assessing, and teaching music with excellence.

Through this program, students will:

- 1) Develop the knowledge and understanding that concerns the structure and history of music in relation to composing and producing, interpreting, performing, listening, assessing, and teaching,
- 2) Produce and perform with meaningful artistic expression and musical sensitivity in their final recital performance.
- 3) Develop the technical skills necessary for composing and producing, interpreting, performing, listening, assessing, and teaching music.

Requirements – Major:

Music Education majors must complete each of the following with a grade of "C" or better:

MUSI 101 (3); MUSI 102 (3); MUSI 201 (3); MUSI 202 (3); MUSI 112 (1); MUSI 113 (1); MUSI 212 (1); MUSI 213 (1); MUSI 205 (3); MUSI 206 (3); Applied Piano, Keyboard Skills or voice (Applied piano for vocalists, Voice Lessons for pianists, and Keyboard Skills for instrumentalists)- MUSI 144, 148, or 194 (4); Applied Music- MUSI 140, 144, or 148 and Applied Music- MUSI 240, 244, 248, 340, 344, or 348 (10); MUSI 130 (2); MUSI 131 (2); MUSI 132 (2); MUSI 133 (2); MUSI 250 (1); MUSI C 121 or 122 (8 semesters - 8 or 0 credits options); MUSI 241 (0); MUSI 242 (0); MUSI 342 (3); MUSI 303 (3); MUSI 352 (3); EDUC 376 (12); MUSIC 360 (0); EDUC 260 (3); EDUC 310 (3); EDUC 344 (3) ; EDUC 350 (0); EDUC 353 (3); EDUC 354 (0); EDUC 210 (3); EDUC 205 (3); PHED 257 (2)

Nuclear Medicine Technology

College: College of Science

Department: Pre-Professional Health

Student Type: Traditional Undergraduate

Clinical Lecturers:

Nancy McDonald, CNMT, Program Director - Northwestern Memorial Hospital
Stewart Spies, M.D., Medical Director, School of Nuclear Medicine - Northwestern Memorial Hospital

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Advisor: Alice N. Sima, RN, M.S.N., M.B.A.

Objectives:

The program for majors in nuclear medicine technology is designed to prepare students to:

1. Provide patient care which includes concern for radiation safety, understanding patient concerns and fears concerning their illness and pending procedures and recognizing emergency patient conditions;
2. Develop technical skills which include quality control and assurance for the preparation and administration of radiopharmaceuticals, performance of in-vivo and in-vitro diagnostic procedures and operation of related equipment;
3. Develop administrative capability which includes supervisory and record keeping functions and radionuclide accountability; and
4. Become a certified nuclear medicine technologist by passing the national certifying examinations.

Requirements - Major:

Students in the nuclear medicine technology program must complete at least 90 semester hours with a minimum GPA of 2.8 at Benedictine University. Students **MUST APPLY** for admission to Northwestern Memorial Hospital, our clinical education program affiliate hospital, during their junior year. The admissions process is competitive. Your senior year is a 12-month, 34-semester-hour clinical education curriculum in an American Medical Association accredited hospital program affiliated with the University. Upon completion of this B.S. program the student is eligible to take certifying examinations administered by the Nuclear Medicine Technology Certification Board and by the American Registry of Radiologic Technologists and the Board of Registry of the American Society of Clinical Pathologists. Students majoring in nuclear medicine technology must complete the following courses with a grade of "C" or better: CHEM 113(3), 114(1), 123(3), 124(1); BIOL 197(3), 198(3), 199 (1), 203(4), 250(3), 251(1), 258(4); MATH 111(3); CMSC 180(2), 182(1);

PHIL 240(3); and ECON 150(3); PHYS 113(3), 114(1), 118(3), 119(1); and NMTC 331(2), 332(3), 333(3), 334(9), 335(3), 336(3), 337(2), 338(3), 339(3), 340(2), 341(1).

Nursing

College: College of Education and Health Services

Department: Nursing and Health

Student Type: Adult Accelerated Undergraduate

Faculty:

Elizabeth Ritt, Ed.D., M.S.N., RN, CNE, NEA-BC, Department Chair
Gina Canny, M.S.N., RN, Springfield Branch Campus
Margaret Delaney, M.S., RN, PNP-BC
Valerie Ellinger, M.S.N., RN, Springfield Branch Campus
Margaret Richey, Ed.D., M.M.S.N., RN
Brian Higgerson, D.N.Sc., M.S.N., RN, FNP-BC
Laura Holland, M.S.N., RN, CNE
Susan Hovey, M.S.N., RN, Coordinator of Nursing Programs – Springfield Branch Campus
Margaret Kipta, M.S., RN, FNP- BC, CRNA, Nursing Laboratory Coordinator
Joan Libner, Ed.D., M.S.N., RN-BC; CNE, RN to B.S.N. Program Director
Ethel C. Ragland, Ed.D., M.N., RN
Alison Ridge, D.N.P., M.S.N., RN, CNE, MSN Program Director
Sharon Ware, Ed.D., M.S.N., M.A., RN, CCHC

Lecturers:

Shelly Baldwin, M.S.N., RN, CWOCN
Kathleen Ball, M.S., B.S.
Mary Barnes, M.S.N., CCRN, RN
Jeffrey Coleman, M.S.N., RN, CMSRN, CNML
Ellen Davel, Ed.D., M.S.N., RN
Hillary Holecek, M.B.A., M.S.
Mary L. Micklus, M.S., RN
Beth Phelps, , M.S.N., RN
Allison Retzer, M.S.N., RN
Tessa Sanson, M.S.N., RN
Dawn Sarginson, M.S.N., RN
Aline Tupa, M.S.N., RN
Amy Yeates, M.S.N., RN
Margaret Young, M.S.N., RN

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Campus: Springfield Branch Campus

The information contained on this page is from the 2013-2014 Undergraduate Catalog and is valid until August 1, 2014.

Division: Nursing

Student Type: Adult Accelerated Undergraduate

Objectives:

The Nursing program is designed to prepare graduates who will:

1. Synthesize theories and concepts from the arts and humanities and the natural and social sciences in professional practice.
2. Apply critical thinking, decision making, and clinical reasoning skills in providing quality nursing care to individuals, families, groups and communities.
3. Translate research findings to provide evidence based practice of nursing.
4. Manage information and technology to deliver quality patient care in a variety of settings.
5. Use leadership skills and knowledge of the healthcare, financial and regulatory systems to advance high quality, safe professional practice.
6. Communicate effectively and collaborate with other health care professionals to provide quality, patient-centered care.
7. Apply principles of prevention and health promotion in providing care to individuals, families, groups and communities..
8. Integrate Benedictine and professional values and ethical, moral and legal aspects of nursing into own professional practice.
9. Apply a process of lifelong learning in the development of one's self, nursing practice, and the profession.
10. Demonstrate evolving competence in professional role within a dynamic, multicultural, global society.

Admission Requirements

1. Have a minimum 2.5/4.0 cumulative GPA
2. Hold a current, unencumbered registered nurse (RN) license in Illinois;
3. Demonstrate computer proficiency (word processing, e-mail, internet use) as evidenced by transcripts, employer documentation, or student documentation.
4. Transfer in a minimum of 55 semester hour credits, including WRIT 101 and WRIT 102 or equivalent for non-partner applicants and 83 designated credit hours for 3 +1 partner applicants.
5. Letter of recommendation from a manager or supervisor. New graduates may obtain letter from a clinical nursing instructor.

Requirements - Major:

The nursing major is offered in an accelerated format designed for the adult learner.

Nursing majors must:

1. Meet University core and skills requirements;
2. Successfully complete the following courses or their equivalent: BIOL 203(4); BIOL 208(4); BIOL 258(4); CHEM 101(3); PHIL 245(3); PSYC 100(3); PSYC 200(3) or PSYC 202; SOCL 100(3);
3. Successfully complete the following courses with a grade of "C" or better: NRHL 200(3); NRHL 213(3); NRHL 250(3); NRHL 290(3); NRHL 295(3); NRHL 300(3); NRHL 301(4); NRHL 311(3); NRHL 320(3); NRHL 378(3);

4. If required by affiliating agency, show evidence of current TB test, proof of immunizations and other health requirements and criminal background check prior to planned clinical/field experience(s). (See advisor for further information).
5. Complete all program requirements within three years after commencing nursing cohort classes.

Up to 30 semester hours of lower division nursing credits can be accepted as transfer credit.

Degree Status

Registered nurses who have previously received a bachelor's degree from Benedictine University may enroll in the RN to B.S.N. Program as degree seeking students and receive a second Bachelor's degree upon completion of the Program.

Accreditation

The baccalaureate program for the registered nurse has received accreditation through 2013 from the Commission on Collegiate Nursing Education (CCNE) (One Dupont Circle NW, Suite 530, Washington, DC 20036-1120, 202-887-6791)

Nutrition

College: College of Education and Health Services

Department: Nutrition

Student Type: Traditional Undergraduate

Faculty:

Catherine Arnold, Ed.D., RD, LDN, Department Chair
Bonnie Beezhold, Ph.D., CHES
Traci Beierwaltes, M.S., RD, LDN (Mesa branch campus)
Julie Davis, M.S., RD, LDN
McKale Davis, Ph.D., RD (Mesa branch campus)
Stephanie Ellis, M.P.H., RD, LDN
Karen Plawecki, Ph.D., RD, LDN

Lecturers:

Cindy Baranoski, M.S., RD, LDN
LouAnn Chvatal, M.S., RD, LDN
Jan Dowell, M.S., M.H.S., C.S.S.D., RD, LDN
Michel Harris, M.S., RD, LDN, CDE
Thomas Jordan, M.S., RD, LDN
Sarah McNicholas, M.S., RD, LDN
Nancy Moran, M.P.H., RD, LDN, CDE
Christine Palumbo, M.B.A., RD, LDN
Lindsay Sawyer, M.B.A., M.P.H., RD, LDN
Laurie Schubert, Ph.D., RD, LDN
Jodie Shield, M.Ed., RD, LDN
Paula Milas Sochacki, M.P.H., RD, LDN
Lisa Eaton Wright, M.S., RD, LDN

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Objectives:

Upon completion of the Nutrition Major, the student will successfully:

1. Develop beliefs, values, attitudes, and behaviors for professional practice, including:
 - a. Effective and professional communication skills.
 - b. Application of education principles.
 - c. Applied knowledge of ethical principles.
2. Apply principles of food and techniques of food preparation.

3. Demonstrate knowledge and strategic application of principles of management theories and systems.
4. Integrate scientific information and research into practice.
5. Participate in opportunities to develop teamwork, cultural competence, problem solving and critical thinking skills.

Requirements - Major:

The nutrition major must complete, with a "C" or better

University Skills and Core: WRIT 103(3) and 102(3), SPCH 110(3); PSYC 100(3); and a core approved ethics course.

Cognates: CHEM 101(3) and 102(1) [or CHEM 113(3), 114(1), 123(3), and 124(1)]; CHEM 103(3) and 104(1) [or 242(3), 243(1), 247(3), and 248(1)] ; BIOL 197(3), 198(3), 199(1), 208(4), and 258(4); and BIOL 229(3) or PSYC 150(3) or PSYC 250(3).

Nutrition Science Courses - Foundation:

NUTR 150(1), 241(3), 244(3), 245(1), 251(3), 271(3), 280(3), 298(2), 345(3), and 392(2).

Major Electives:

Students must also complete at least 24 additional hours from one of three options below, with a grade of a "C" or better.

- Nutrition major without a specified Concentration: NUTR 300(4); MGT 300(3) or 320(3); and 17 additional elective hours from the following programs: COMM, MGT, MKTG, NUTR, HLSC, and/or BIOL, to be selected in consultation with an academic advisor in Nutrition.
- OR Nutrition major with Dietetics Concentration: Students accepted into the Dietetics Program must complete all of the following courses with a grade of "C" or better: BIOL 203(4) or BIOL 359(3); MGT 300(3) or 320(3); and NUTR 246(1), 250(3); 341(3), 350(2); 371(4), 372(2), 373(1), 391(1), and 395(1). *Courses unique to this concentration are available only on the Lisle Campus.*
- OR Nutrition major with a Health Education Concentration: Students in pursuit of this concentration must complete all of the following courses with a grade of "C" or better: NUTR 246(3), 300(4), 361(1), 362(3), 363(3), 364(3), 365(3), 366(3), 391(1) and MGT 323(3). Students in the Health Education Concentration must maintain a cumulative GPA of 2.5/4.0. *Courses unique to this concentration are available only on the Mesa Branch Campus.*

Dietetics Concentration Application Requirements (Lisle Campus only):

Candidates desiring to enter the Dietetics Program Concentration consult with their academic advisors early in their academic career to ensure that they enroll for the appropriate courses needed for admission to the Dietetics Concentration. Nutrition majors meeting the following eligibility criteria have the opportunity to apply to enter the Dietetics Concentration at Benedictine University:

1. Completion of the following courses with a grade of "C" or better: CHEM 101 [or CHEM 113 and 123], CHEM 103 [or CHEM 242 and 247], BIOL 197, BIOL 198, BIOL 199, and NUTR 241.
2. Completion of Basic Skills Courses (with a grade of "C" or higher).

3. Completion of 24 semester hours of Benedictine courses/6 semester hours for transfer students.
4. Benedictine University cumulative GPA of at least 2.8
5. Evidence of membership in the Academy of Nutrition and Dietetics.

Students who do not maintain a Benedictine University cumulative GPA of at least 2.8 will be dropped from the Dietetics Concentration; such students can continue to pursue the Nutrition Major, as well as reapply to the pursue the Dietetics Concentration if eligible in the future.

Students in the Dietetics Concentration are strongly encouraged, although not required, to maintain a cumulative GPA of 3.4 or higher if considering applying for a position in a Dietetic Internship program in the future.

Requirements – Minor (Lisle Campus only):

Students seeking a minor in nutrition must complete, with a grade of "C" or better, CHEM 101(3) and 102(1) [or CHEM 113(3), 114(1), 123(3), and 124(1)]; CHEM 103(3) and 104(1),] [or 242(3), 243(1), 247(3), and 248(1)]; BIOL 258(4); NUTR 200(3) or 201(3) or 241(3); NUTR 251; two courses from among the following: NUTR 271 (3), 280(3), and/or 345 (3); and one of the following: NUTR 300(4) or 371(4).

Didactic Program in Nutrition and Dietetics (DPD) Verification Statement (Lisle Campus only):

Candidates seeking a career as a Registered Dietitian (RD) should have a sincere desire to provide individualized counseling which could include medical nutrition, show intellectual promise, and display personal, professional and academic characteristics indicative of Registered Dietitians. The requirements for attaining the RD credential are established by ACEND, and include completion of academic course requirements prescribed by a Didactic Program in Nutrition and Dietetics (DPD; Plan III and IV are not accepted) and an ACEND accredited Dietetic Internship program, then passing of the Registration Examination for Registered Dietitians.

To qualify for receipt of the Didactic Program in Nutrition and Dietetics Verification Statement, Benedictine University students must have earned a minimum of a bachelor degree with a cumulative GPA of at least 2.8/4.0, and met all the requirements (e.g., NUTR courses, cognates, skills, grades, Dietetics Concentration application requirements) of the Benedictine University Dietetics Concentration in the Bachelor of Science in Nutrition Major.

Credits to be transferred from other regionally accredited institutions are evaluated on the basis of their equivalence at Benedictine University. Benedictine University accepts course credit in transfer from regionally accredited colleges and universities if the courses are comparable in scope and level of difficulty to courses offered at Benedictine University. Acceptance of transfer credit to be applied to the areas of nutrition, food, and/or dietetics is determined by the DPD director. Courses taken prior to specific dates may be unacceptable as transfer credit because of substantial subsequent developments.

Those seeking DPD Verification of coursework after completing a Baccalaureate degree granted by another U.S. regionally accredited college or university, or equivalent as determined by ECE, must

have earned a minimum cumulative GPA of at least 2.8/4.0 on all undergraduate college/university coursework. These individuals must meet all the requirements (e.g., NUTR courses, cognates, skills, grades, Dietetics Concentration application requirements) of the Benedictine University Dietetics Program in the Bachelor of Science in Nutrition (Major), as determined by the undergraduate Didactic Program in Dietetics Director at Benedictine University, Lisle campus. To have external (to Benedictine University) transcripts evaluated and accepted, the prospective student must first apply to the Enrollment Center of Benedictine University as a Second Degree candidate and submit an original copy of all college and university transcripts, along with his/her application materials. At the time of course acceptance, courses completed at another university must meet the Course Acceptance and Validation Policy, as stated in the *Nutrition Major Handbook*. Students accepted into this program are required to successfully complete at least 12 hours of 200/300 level classroom courses at Benedictine University within a seven year time period. Typically, more than twelve semester hours are required for completion of the DPD. Upon successful completion of all of the requirements, the Didactic Program in Nutrition and Dietetics Verification Statement will be awarded. A second degree will be awarded to those completing the Second Degree Program.

Accreditation Information (Lisle Campus only):

Those accepted into the Dietetics Concentration of the Nutrition major on the Lisle, IL campus are enrolled in a Didactic Program in Dietetics which is externally accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (120 South Riverside Plaza, Suite 2000, Chicago, Illinois 60606-6995, 312/899-0040). As a Didactic Program in Nutrition and Dietetics (DPD), this curriculum meets the specific required knowledge and skills competencies, as listed in the *2012 Standards for Didactic Programs in Nutrition and Dietetics* at <http://www.eatright.org/ACEND/content.aspx?id=7877>.

Certification Information (Mesa Campus only):

The Health Education Concentration of the Nutrition major on the Mesa, AZ branch campus is designed to prepare students to pursue the Certified Health Education Specialist (CHES) certification, which grants licensure to qualified individuals. The CHES examination is offered through the National Commission for Health Education Credentialing, Inc. (NCHEC – <http://www.nchec.org>).

Health Educators foster awareness of positive health behaviors and promote behavior change for health promotion and disease risk reduction. The Health Education Concentration provides students with the knowledge and practice of skills to assess, create, plan, implement, monitor, and evaluate programs designed to promote, maintain, and improve the health of individuals, groups, and communities, as well as impact environments and policies. Students learn to coordinate the provision of health education services and act as resources during field experiences, communicating needs, concerns, and resources. This Concentration provides a unique focus on nutrition for risk reduction.

Affiliation with Graduate Programs (Lisle Campus only):

With careful planning of the undergraduate course sequence, the Nutrition Major offers the student the possibility of completing select cross-listed courses to meet some of the requirements of the following graduate programs while an undergraduate student. These graduate programs include: the Master of Science in Nutrition and Wellness, Master of Public Health, and Master of Science in Clinical Exercise Physiology. Space in these cross-listed courses is limited. Admission to the graduate

program is not automatic. The student must meet apply to, and receive acceptance into, the respective graduate program in his/her senior year in order to have the opportunity to take NTR (cross-listed as NUTR) courses during his/her undergraduate senior year.

Organizational Leadership

College: Margaret and Harold Moser College of Adult and Professional Studies

Department: Adult and Professional Studies

Student Type: Adult Accelerated Undergraduate

Objectives:

This program and its courses are designed to prepare graduates who will:

1. Assume functions and roles in leadership and management in organizations in local and global communities;
2. Acquire the analytical skills necessary to assess the behavioral aspects of groups and organizations; and be prepared for graduate study, particularly in the behaviorally-oriented management programs.

The Bachelor of Arts in Organizational Leadership program is offered in a learning-team/blended format through evening and weekend classes, as well as in a fully online format. These options provide time periods and formats designed for the needs of adult learners. Bachelor of Arts in Organizational Leadership students must complete a minimum of 120 semester credit hours for degree completion. The online courses are restricted to students admitted into the adult online program.

Requirements – General Education

1. Successful completion of the following basic skills courses with a grade of "C" or better: WRIT 101(3), WRIT 102(3), SPCH 110(3), and MATH 105(3).
2. Successful completion of the following liberal arts requirements: Three arts and humanities core courses, including PHIL 245(3) and at least one course from a discipline other than philosophy; two natural sciences core courses, from at least two of the areas of life sciences, physical sciences, and math/computer science; three social sciences core courses which must include PSYC 100(3), ECON 101(3), and ECON 102(3). Both ECON 101 and 102 must be completed with a grade of "C" or better.
3. Successful completion of HUMN 240(3) and HUMN 250(3) to meet the Cultural Heritage requirement.

Requirements – Business Cognates

Bachelor of Arts in Organizational Leadership students must complete the following business cognate course with a grade of "C" or better: MGT 150(3).

Requirements – Major

Bachelor of Arts in Organizational Leadership students must complete the following major courses with a grade of "C" or better: MGT 217(3) which must be the first course taken, MGT 247(3), SOC 290(3), ANTH 200(3), PSYC 210(3), MGT 320(3), MKTG 300(3), MGT 303(3), MGT 330(3), INTB 300(3), MGT 251(3), MGT 333(3), PSYC 298(3), and PSYC 389(3). PSYC 389 should be the last major course taken, and it should immediately follow PSYC 298.

Transfer Credits

Transfer credits for major courses and MATH 105 will not be accepted after a student starts the Bachelor of Arts in Organizational Leadership program. The following courses must be completed at Benedictine University: HUMN 240(3), HUMN 250(3), MGT 217(3), MGT 247(3), PSYC 298(3) and PSYC 389(3).

Writing Assessment

The University expects all Adult Accelerated students to possess at the time of admission the appropriate writing skills that are necessary for success in the program. Therefore, all applicants are required to complete an assessment of their writing skills prior to starting the program. Students that score below a college writing level will be required to enroll in a developmental writing course and earn a grade of 'C' or better.

Work /Life Experience Credits

General elective credit hours may be demonstrated through the Prior Learning Assessment program by the submission and approval of a Work/Life Experience portfolio. Students need to complete all of the requirements of the Prior Learning Assessment program within one year of starting their degree program. The maximum number of credits that may be obtained through work/life experience is 18 semester hours.

Concentrations

For Bachelor of Arts in Organizational Leadership students, optional concentrations provide an opportunity to expand knowledge in different areas. Each concentration is composed of four courses for a total of 12 credit hours of credit. In order to qualify for a concentration, a grade of "C" or above must be obtained for each course. The following two concentrations are available:

- The Human Resources Management Concentration requires completion of the following courses: MGT 262(3), MGT 264(3), MGT 266(3) and MGT 270(3). It is recommended that students complete MGT 330 prior to taking the concentration courses.
- The Marketing Concentration requires completion of the following courses: MKTG 310(3), MKTG 330(3), MKTG 331(3) and MKTG 350(3).

Other Information

Certificate Programs: The Certificate programs provide a concentrated focus for those professionals looking to expand their knowledge in a particular area. Each program is composed of an 18 credit hour series of six online courses. Courses are five to eight weeks in length. Instructional methods include lectures, simulations and case studies. Each class forms online interactive learning teams to assist in the learning process. All students interested in entering a certificate program should contact their academic advisor.

Certificates are offered in the areas of:

Human Resources Management

The Human Resources Certificate program is designed to meet the needs of those students interested in entering the field of Human Resources as well as experienced HR professionals

interested in expanding their knowledge and career potential. This series focuses on the fundamental issues related to employee recruitment, training and retention strategies, employee relations, performance appraisal, compensation and benefits, and employment law.

Certificate Eligibility: Successfully completing all 6 courses in a program qualifies a student for the corresponding Academic Certificate. All courses must be completed with a grade of "C" or better in order to be eligible for the certificate.

Application for Certificate: To apply for the Certificate, students must submit the Application for Graduation form, specifying the Certificate Area on the application and sending the completed form to Ben Central with appropriate fee.

Philosophy

College: College of Liberal Arts

Department: History, Philosophy and Religious Studies

Student Type: Traditional Undergraduate

Faculty:

Patrick Flynn, Ph.D.

Bernard Toussaint, Ph.D.

Martin Tracey, Ph.D.

Objectives:

Philosophy seeks answers to such fundamental questions as: What is ultimately real? What is the nature and extent of our knowledge? What is the source and nature of our moral obligations? What form of government is the best? Is beauty only in the eye of the beholder? Our aim is to assist students (1) in developing an appreciation of the various answers to these questions and (2) in formulating their own answers in a way that can be defended in the arena of reasoned controversy. Philosophy draws on material from all areas of human endeavor--science, the arts, religion, and politics for example. Thus, philosophy is uniquely suited to equip students with not only an appreciation for the examined life, but also with the critical thinking, writing and communication skills necessary for success in the 21st century.

Courses in philosophy are designed to:

1. Investigate the ultimate principles of knowledge, reality and human conduct;
2. Establish rational methods of evaluating ideas and arguments;
3. Explore the underlying unity and diversity of experience;
4. Provide an historical survey of philosophical ideas;
5. Offer a systematic treatment of major philosophical questions;
6. Afford you a general enrichment in philosophy; and
7. Prepare you for graduate work in philosophy or for advanced study in law, theology, or education.

Requirements – Major:

Students majoring in philosophy must complete a minimum of 36 hours of courses toward their major, with a grade of "C" or better. Of these 36 hours, these courses must include at least 24 hours of formally registered philosophy courses, and may include up to 12 hours of philosophy department approved courses. This latter refers to department agreed substitutions for formally registered philosophy courses from related academic fields. Of the formally registered philosophy courses, 24 course hours must be at the 200 level or above and 9 course hours must be at the 300 level or above. Courses toward the philosophy major must also include: PHIL 120(3), 200(3), 210(3), either 225(3) or 335(3), and one of 245, 246, 247, 248, 249 or RELS 250(3). In addition, if a student is contemplating attending graduate school in philosophy following their bachelor's program, we strongly recommend that they also take all or most of the following course offerings: PHIL 205 or 305, 315(3), 320(3), 325(3), 330(3), 335(3), 355 and 365. Philosophy majors are also required to

demonstrate competency in a modern or classical language by completion of at least one modern language course at or above the 202-level, or by completing 12 course hours of New Testament Greek I & II and Ecclesiastical Latin I & II.

Philosophy Major for Pre-law Students:

"The free and spirited consideration of philosophical questions is almost the classic model for legal training" (Statement on Pre-legal Education of the Association of American Law Schools). While no single major is required for admission to law school, philosophy has long been recognized as excellent preparation for the study of law. Pre-law students who choose philosophy as a major may choose to also take ACCT 111(3), 112(3); HIST 111(3); and PLSC 230(3) or 312(3). Some or all of these courses may count as philosophy approved courses.

Requirements - Minor:

Students desiring to minor in Philosophy must complete a minimum of 21 hours toward their minor with a grade of "C" or better. Of these 21 hours, these courses must include at least 15 hours of formally registered philosophy courses, and may include up to 6 hours of philosophy department approved courses. Of the formally registered philosophy courses, 12 course hours must be at the 200 level or above and 3 course hours must be at the 300 level or above. Courses toward the philosophy minor must also include: PHIL 200(3), 210(3), and one of 245, 246, 247, 248, 249, or RELS 250(3).

Philosophy as a Second Major:

Students desiring a major in philosophy are encouraged to combine their major in philosophy with a second major in another academic field, related to their particular philosophical interests, or to combine their major in philosophy with one or more academic minors, related to their particular interests in philosophy. Philosophy has always been an intrinsically inter-disciplinary academic field. Philosophical reflection presupposes the knowledge of a wide variety of many different (academic and non-academic) fields and topics. It is this presupposed knowledge that provides the critical starting point for philosophical reflection. We wish to encourage our philosophy students to engage, as fully as they are capable, in this basic inter-disciplinary, philosophical spirit.

Physical Education

College: College of Education and Health Services

Department: Education

Student Type: Traditional Undergraduate

Faculty:

Elizabeth Bell, Ed.D.

Objectives:

The Physical Education program is designed to prepare students to teach Physical Education in elementary, middle, and high school levels. The program includes studies in education as well as the sciences. The program also emphasizes the importance of physical activity and the ability to teach such activities. Field experiences are included in the program at all levels of education K-12.

Students who complete the program successfully will:

1. Become certified as a teacher in physical education for grades K-12.
2. Understand and demonstrate success methods to teaching physical education
3. Demonstrate knowledge in the areas of health education and adaptive/corrective physical education
4. Integrate science and health related knowledge in the areas of kinesiology, anatomy, exercise physiology, and nutrition.

Requirements for the Major:

Students majoring in physical education must complete the following requirements. These align with, but are not totally inclusive of, all of the University core requirements for an undergraduate degree at Benedictine University.

Requirements – Major:

Physical Education majors must pass the core courses and the following courses with a "C" or better. The professional education requirements are: EDUC 200(1), 205(3), 207(0), 215(3), 260(3), 310(3), 345/350(3), 353/354(3), 374(6), 375(6), PHED 200(3), 201(2), 240(2), 241(2), 243(2), 257(2), 260(3), 270(2), 300(3), 302(3), 305(3), 308(3), 320(3), NUTR 201(3), BIOL 155(4), and HLSC 200(4). Also, preclinical experiences are required.

Physics

College: College of Science

Department: Physics/Engineering

Student Type: Traditional Undergraduate

Faculty:

Peter H. Nelson, Ph.D.

Ralph D. Meeker, Ph.D.

Andrew Wig, Ph.D.

Joseph C. Bowe, Ph.D. Professor Emeritus

Duane J. Buss, Ph.D. Professor Emeritus[†]

Fr. William J. Shonka, O.S.B., Ph.D., Professor Emeritus[†]

John J. Spokas, Ph.D. Professor Emeritus

Lecturers:

John Baliga, Ph.D.

David Baran, Ph.D.

Kevin Beyer, M.S.

Randall Hicks, Ph.D.

June Lee, Ph.D.

Timothy Schmidt, M.S.

Philip Schreiner, Ph.D.

Mel Swieton, M.S.

Luisa Torres, Ph.D.

The lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Objectives:

The courses in physics are designed to:

1. Develop a scientific style of reasoning; and
2. Increase one's understanding of our physical environment.

The program for majors is designed to:

1. Provide students with a thorough introduction to classical physics and to the basic concepts of quantum physics;
2. Provide students with the mathematical foundation required to study physics in a rigorous manner at the introductory level and beyond;

3. Develop students' laboratory skills and to expose you to modern experimental techniques needed to study physics in a laboratory setting;
4. Provide sound, coherent, and complete collegiate programs so as to accommodate a wide range of student interests; and
5. Prepare majors for physics research, engineering, law, medicine or high school teaching.

Acceptance into the Physics Program:

A student will gain acceptance to the physics program by completing the introductory sequence of PHYS 211, PHYS 212, MATH 210, and MATH 211 with a GPA of 2.50 or above and a grade of "C" or better in each of these courses. A transfer student will gain acceptance by meeting these requirements through equivalent transfer courses. Additionally a transfer student must earn a GPA of 2.5 or above in all major classes (excluding labs) during the first semester at BU in order to be accepted into the physics program.

If it is determined at any time that a student cannot gain acceptance to the physics program or cannot graduate with a physics degree, the student will be required to change his or her major and seek academic advising outside of that program.

Requirements - Major:

Within the physics major you may select either of two concentrations:

PHYSICS CONCENTRATION:

This program is designed to provide a rigorous introduction to the concepts of physics through a mix of theoretical and experimental course work which will prepare students for graduate studies, a career in engineering, or applied physics. It also provides a sound basis for a career in science education on the high school or elementary school level.

BIOLOGICAL PHYSICS CONCENTRATION:

This program provides you with an interdisciplinary introduction into the exciting field of biological physics designed to prepare you for graduate work in biophysics or biomedical engineering. The program combines mathematics, physics, and biology in an unusual and exciting opportunity for undergraduates. You will be involved in significant research, working directly with world-class faculty at the forefront of this field.

Requirements for a Physics major are:

PHYSICS CONCENTRATION: Majors are required to present a minimum of 36 hours in physics courses numbered 200 or above, including PHYS 205(1), 206(1), 207(1), 211(4), 212(4), 213(3), 220(3), 264(3), 313(3), 315(3), 340(3), and 398(2); a 200-300 Physics Elective (2); and a 300-level Physics Elective (may substitute MATH 361 or CMSC 350). Students must also complete MATH-210(4) and 207(1) or 170(4) and 171(1) plus 200(4), 211(4), 212(4), 260(4); CHEM 113(3), 114(1), or 115(1), or NTSC 151(1.5); CHEM 123(3), 124(1), or 125(1) or NTSC 152(1.5), and CMSC 180(2), CMSC 181 or 185(2). Only courses in which a student earns a grade of "C" or better may be counted toward the major. Students planning graduate studies are advised to take MATH-300(3), 361(3), 365(3); PHYS 323(3), 374(2).

BIOLOGICAL PHYSICS CONCENTRATION: Majors are required to complete; BIOL 197(3), 198(3), 199(1), 250(3), 251(1), CHEM 113(3), 114(1), or 115(1) or NTSC 151(1.5), 123(3), 124(1), or 125(1) or NTSC 152(1.5), MATH 210(4) and 207(1) or 170(4) and 171(1) plus 200(4), 211(4), 212(4), PHYS 211(4), 212(4), 213(3), 205(1), 206(1), 207(1), PHYS 313(3), PHYS 315(3), PHYS 323(3), PHYS 398(1) plus 3 additional hours at the 200 to 300 level in Physics, and 3 additional hours at the 300 level in any of BIOL, BCHM, CHEM, MATH or PHYS. Only courses in which a student earns a grade of "C" or better may be counted toward the major.

A student cannot major in both Health Science and Physics.

Requirements - Minor:

Students seeking a minor in Physics must complete, with a grade of "C" or better: PHYS 211(4), 212, 213(3), 205(1), 206(1), 207(1) and 6 hours in physics courses numbered 200 and above, including at least 3 credit hours at the 300 level. Only courses in which a grade of "C" or better was received may be counted toward the minor.

Requirements - Teaching Certification:

Requirements to be a high school Physics teacher: Students desiring to be certified to teach physics on the secondary level (grades 6-12) are to declare themselves as physics majors and education minors and register with the Benedictine University Education Program as teaching certificate candidates. Advisement is then a joint responsibility of the physics and the education programs. Students must complete the following courses with a grade of "C" or higher: PHYS 205(1), 206(1), 207(1), 211(4), 212(4), 213(3), 220(3), 264(3), 313(3), and 315(3). Students must also complete MATH 210(4) and 207(1) or 170(4) and 171(1) plus 200(4), 211(4), 212(4), 260(4); CHEM 113(3), 114(1), or 115(1), or NTSC 151(1.5); CHEM 123(3), 124(1), or 125(1) or NTSC 152(1.5), and CMSC 180(2), CMSC 181 or 185(2), as well as the requirements of the Teacher Certification Program in Secondary Education which includes an education minor (see education). Students must also complete PHYS 107, NTSC 111 and PHIL 290.

Political Science

College: College of Liberal Arts

Department: Political Science

Student Type: Traditional Undergraduate

Faculty:

Joel Ostrow, Ph.D., Department Chair

Phil Hardy, Ph.D.

Tammy Sarver, Ph.D., J.D.

Lecturers:

Jim Ryan, Benedictine University Distinguished Fellow

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Objectives:

Political Science students at Benedictine University learn both theoretical and practical material about political systems and their processes, both domestic and international, as part of our overarching goal to develop a strong understanding of the concept of citizenship and commitment to service. Our faculty take pride in challenging our students and helping them to developing critical research, writing and oral communications skills. The Department houses nationally-recognized Mock Trial and Model United Nations programs, and the Center for Civic Leadership and Public Service, directed by Distinguished Fellow and former Illinois Attorney General Jim Ryan. The Center's mission is to inspire students to consider careers in public service and help them to become effective citizens. The program prepares students to pursue career opportunities in national, state and local governments, journalism, education, non-profit organizations, and international development, among others, and graduate study in political science, law, public administration, business, or other advanced study.

The program is designed to:

1. Provide theoretical and practical knowledge about politics in the United States and political systems and processes around the world;
2. Prepare students to pursue careers in law, journalism, business, advocacy groups, non-profit organizations, politics and public service, government, and international organizations and agencies, among others;
3. Provide students an opportunity to choose from concentrations in pre-law or international affairs;
4. Develop writing and research ability and critical thinking essential for success in any career choice;

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5. Develop a strong understanding of the concept of citizenship and a commitment to public service;
6. Provide internships and other non-classroom learning experiences in government, law, and business, and other opportunities under the Center for Civic Leadership and Public Service led by J. Ryan, Distinguished Fellow;
7. Encourage participation in our award-winning Model United Nations and Mock Trial teams.

Requirements - Major:

Political science majors must complete SOCL 100(3); ECON 101(3); and PSYC 100(3). HIST 111(3), 112(3) are strongly recommended. Also recommended are 12 hours in a modern language and HIST 223(3). The major itself consists of a minimum of 36 hours in political science, completed with a grade of "C" or better, including PLSC 103(3), 105(3) or 205(3), 201(3), 210(3), 299(3), 399(3), and 18 hours in other political science courses, nine hours of which must be at the 300 level. All major and cognate courses must be completed with a grade of "C" or better. Although repeatable for credit, both PLSC 215(3) and 237(3) courses can be counted only once toward completion of the 36-hour Political Science major requirement.

Global Studies (PLSC 101) will not count towards a Political Science major or minor requirement. Credit will not be granted for both PLSC 102 and PLSC 103. Credit will not be granted for both PLSC 105 and PLSC 205.

PRELEGAL CONCENTRATION:

In response to law school recommendations, the pre-legal concentration does not require a specific course of study but focuses on a broad range of offerings out of six academic programs. The thrust is a broad liberal arts background, which makes the student aware of pressing social problems, knowledgeable about the American system of government and capable of reading critically and writing in a clear, concise manner.

The student in the prelegal concentration is required to complete the following courses political science with a grade of "C" or better: PLSC 103(3), 205(3), 201(3), 210(3), 230(3)/330(3), 231(3)/331(3), 243(3)/343(3), 299 and 399, ECON 101(3), and five electives from the following courses: ACCT 111(3), 112(3); COMM 317(3); ENVS 205(3); GENS 100(3); HIST 112(3), 260(3), 265(3); MGT 235(3), 236(3), PHIL 200(3), 240(3), 245(3), 250(3), 260(3), 355(3); PSYC 210(3); SOCL 205(3), 240(3), 260(3), 306(3), 321(3), 391(3); other courses related to the law, as approved by the Pre-Law advisor; or any PLSC 200- or 300-level course.

Requirements - Minor:

Twenty-one semester hours, with a grade of "C" or better, are required for a minor in political science. These 21 hours must include PLSC 103(3), 201(3), 105(3) or 205(3), 210(3), 299(3) and six more hours above 200, including three hours at the 300 level. PLSC 215 and PLSC 237, while repeatable for credit, may only be counted once towards satisfying requirements for the minor.

Requirements - Teaching Certification:

Students desiring to be certified to teach political science/civics at the secondary level (grades 6-12)

are required to major in social science (See Social Science major). Students must also complete the Teacher Certification Program in Secondary Education described in the education program.

Other Information:

Course repeat policy for majors and minors in Political Science: A student who has received an unsatisfactory grade (below a "C") in a course that satisfies requirements within the major or minor may repeat that course one time only. The course must be completed satisfactorily at Benedictine University. After three attempts (defined as enrollment beyond the add/drop date), a student will be denied further enrollment in a course within the major or minor. A student who has completed PLSC 399 Thesis Research and Writing and received letter grade may not repeat the course.

Pre-Professional Health Programs

College: College of Science

Department: Pre-Professional Health

Student Type: Traditional Undergraduate

Faculty: Alice N. Sima, RN, M.S.N., M.B.A., Director

Objectives:

The Office of Pre-Professional Health Programs is responsible for the supervision of the baccalaureate degree program in related health professions. This office also coordinates all health science practica and is responsible for clinical affiliations, external funding and accreditation of the University's health care education programs. The office is the primary advising center within the University for the health professions and provides career information to students interested in medicine (allopathic and osteopathic), pharmacy, dentistry, optometry, podiatry, chiropractic, veterinary science, occupational therapy, and physical therapy.

Requirements - Major:

Pre-Chiropractic Program:

To enter chiropractic school it is strongly recommended that students complete four years at Benedictine University. Suggested programs for the biochemistry/molecular biology, health science or biology major should be followed as most chiropractic schools require eight hours of physics (all with labs), and a minimum of 30 hours of humanities and social sciences. Interviews by, and a recommendation letter from, the Health Science Recommendations Committee should be arranged for during the spring semester of the junior year or fall semester of the senior year.

Pre-Dental Program:

Although it is possible to enter dental school after three years of college, it is strongly recommended that students complete four years at Benedictine University. Suggested programs for the biology, health science or biochemistry major should be followed. Most dental schools require one year of organic chemistry; one year of physics; and biology courses including genetics, anatomy, embryology and physiology. It is also recommended that the student take the Dental Aptitude Test (DAT) during the spring semester of the junior year. Interviews by, and a recommendation letter from, the Health Science Recommendations Committee should be arranged for during the spring or fall semesters of the junior or senior year respectively.

Pre-Medical Program:

A student seeking a career in allopathic or osteopathic medicine should plan on completing four years at Benedictine University. The well-qualified candidate should have a strong foundation in basic science and mathematics and advanced science courses should emphasize biology or biochemistry. A good selection of appropriate advanced courses is offered by both the biology department and the chemistry and biochemistry department, namely histology, endocrinology, cell biology,

biochemistry, clinical chemistry and intermediary metabolism. It is also recommended that the student take the Medical College Admissions Test (MCAT) during the spring semester of the junior year. Interviews by, and a recommendation letter from, the Health Science Recommendations Committee should be arranged for during the spring or fall semesters of the junior or senior year respectively.

Pre-Occupational Therapy Program:

Students seeking a career in occupational therapy should plan on completing a degree in health science or psychology. They would continue their education in a master's degree program in occupational therapy. Graduates from these programs are qualified to sit for the American Occupational Therapy Association Certification Examination. Interviews by, and a recommendation letter from, the Health Service Recommendations Committee should be arranged for during the spring or fall semesters of the junior or senior year.

Pre-Optometry Program:

A student seeking a career in optometry should plan on completing four years at Benedictine University. The well-qualified candidate should have a strong foundation in basic science and mathematics and advanced science courses should emphasize biology or biochemistry. Suggested programs for the biology, health science or biochemistry/molecular biology major should be followed. It is also recommended that the student take the Optometry College Admissions Test (OCAT) during the spring semester of the junior year. Interviews by, and a recommendation letter from, the Health Science Recommendations Committee should be arranged for during the spring or fall semesters of the junior or senior years respectively.

Pre-Pharmacy Program:

Students interested in entering pharmacy school should complete the first two years of the pre-pharmacy program. See the Director of the Pre-Professional Health Programs for further information. It is also recommended that the student take the Pharmacy College Admissions Test (PCAT) during the fall semester of the sophomore year. Benedictine University offers a Dual Acceptance Program with Midwestern University-Chicago College of Pharmacy (CCP) for selected students who successfully complete the specified course work; such students will be granted an early acceptance to CCP. Eligible students must rank in the top 20 percent of their high school graduating class; must score in the top quartile on a college entrance exam (ACT of 25 or higher; SAT of 1700 or higher); be accepted by Benedictine University; and be selected for an interview by the CCP Admissions Committee.

Successful applicants will be ensured a seat at CCP upon successful completion of the pre-pharmacy requirements at Benedictine University within two years; achievement of a minimum cumulative GPA of 3.20; and earning a grade of "C" or better in all required courses. Students are not permitted to repeat courses for a higher grade. The PCAT is waived for students who successfully complete the pre-pharmacy program at Benedictine University and who are admitted to CCP via the Dual Acceptance Program. Any student who fails to complete the program can apply to CCP via the traditional route.

Pre-Physical Therapy Program:

Students seeking a career in physical therapy should plan on completing a degree in health science

or psychology. They would continue their education in master's degree or doctoral programs in physical therapy in order to be eligible to apply for and complete the licensing examination in Illinois and other states. Interviews by, and a recommendation letter from, the Health Science Recommendations Committee should be arranged for during the spring or fall semesters of the junior or senior year.

Pre-Physician Assistant Program:

Student seeking a career as a physician assistant, should plan to complete four years of college. You should have a strong foundation in basic sciences of biology, chemistry, physiology, anatomy and microbiology, and a balance of studies in the applied behavioral sciences. A GPA of 3.4/4.0 (on a 4-point scale) and a graduate admissions exam may be required. Most physician assistant schools require prior health care experience (example, 2,000 work hours). Students should arrange for interviews with the Health Sciences Recommendations Committee during the spring or fall of your junior year. The majority of the applicants to the pre-physician programs apply through the Central Application Service for Physician Assistants the summer prior to senior year.

Pre-Podiatry Program:

Although it is possible to enter podiatry school after three years of college, it is strongly recommended that students complete four years at Benedictine University. Suggested programs for the biochemistry/molecular biology, health science or biology major should be followed as most podiatry schools require eight hours of biology, 16 hours of chemistry, eight hours of physics and a minimum of 30 hours of humanities and social sciences. It is also recommended that the student take the Medical College Admissions Test (MCAT) during the spring semester of the junior year. Interviews by, and a recommendation letter from, the Health Science Recommendations Committee should be arranged for during the spring or fall semesters of the junior or senior year respectively.

Pre-Veterinary Program:

Students may apply to the University of Illinois College of Veterinary Medicine after completing three years of college, but the majority of students accepted have earned their bachelor's degree. Suggested programs for the biology, health science or the biochemistry/molecular biology major should be followed as the minimum requirements for admission are eight hours of biology, 16 hours of chemistry, eight hours of physics, three hours in animal science and at least 30 hours of humanities and social sciences. It is also strongly recommended that the student take the Graduate Record Exam (GRE) during the spring semester of the junior year. Interviews by, and a recommendation letter from, the Health Science Recommendations Committee should be arranged for during the spring or fall semesters of the junior or senior year respectively.

The Health Science Recommendations Committee:

The purpose of this committee is to send out letters of recommendation for students seeking admission to professional programs in the health care areas such as medicine, dentistry, optometry, podiatry, veterinary medicine. To carry out this work the committee meets two times each year, in October and February, to interview applicants. Announcements as to the procedures to be followed in making application to the committee for interviews will be posted on-line. All students seeking admission to professional schools should plan to interview with the members of this committee during the junior year or at the beginning of the senior year.

Psychology

College: College of Liberal Arts

Department: Psychology, Sociology, Criminal Justice, and M.S. in Clinical Psychology

Student Type: Traditional Undergraduate

Faculty:

James Crissman, Ph.D., Department Chair

Sandra Chmelir, Ph.D.

Dianne Moran, Ph.D.

Kelly Kandra, Ph.D.

Brian Patterson, Ph.D.

Campus: Springfield Branch Campus

Division: Humanities/Social Sciences

Student Type: Traditional Undergraduate

Faculty: Patricia Giacomini, M.A., M.S., Division Chair

Campus: Springfield Branch Campus

Division: Adult Programs

Student Type: Adult Accelerated Undergraduate

Faculty: Janet Kirby, Ph.D., Division Chair

Objectives:

Psychology is a science that studies individual, group and societal behaviors and investigates them using experimental, clinical and social-developmental methods. The professional psychologist uses principles derived from research to solve individual, group and organizational problems. This program is designed to:

1. Inform students of results from the experimental, clinical and social developmental areas of research;
2. Introduce the student to the statistics and research methods of psychology;
3. Provide a sound background applicable to the wide variety of careers available with a bachelor's degree; and
4. Serve as a basis for graduate work in psychology or other related professional careers such as medicine, law, social work and business.

Requirements - Major:

Psychology majors must complete MATH 105(3), 108(3) or 110(3) with a grade of "C" or better and fulfill the social science requirement of the core by taking one course in sociology, one in economics and one in political science/anthropology. (Psychology Pre-Physical Therapy or Pre-Occupational Therapy majors must take MATH S110 to meet the math skills requirement.) Majors are required to complete, with a grade of "C" or better, the departmental core: PSYC 100(3), 250, 351(3), 395(3), three courses at the 200 level exclusive of PSYC 250 and 351, and 17 credit hours at the 300 level, exclusive of PSYC 395 and one course at either the 200 or 300 level. Of the 300-level courses, two of these must be four-hour lab courses. One lab course must be from 314-15(4), 316-17(4), or 318-19(4), and one from PSYC 354(4) or 356(4).

Psychology majors in Pre-Physical Therapy or Pre-Occupational Therapy must complete at least 78 hours of courses in this interdisciplinary program. It includes SOCL 213(3), which fills a core social science requirement, MATH 111(3), 15 hours in Biology: BIOL 108/109(4), 203(4), 258(4), and a 300-level elective(3); eight hours in Chemistry: CHEM 113/114(4), 123/124(4); and eight hours in Physics: PHYS 113/114(4), 118/119(4). (Note that the Natural Science core is fulfilled by this program's requirements). There are 41 hours required in Psychology including PSYC 100(3), 250, 351(3), and five additional 300 level courses, including two lab courses, with PSYC 318/319(4) as one of them. Three courses at the 200 level and one course at the 200 or 300 level.

Students pursuing graduate school should take the following classes: PSYC 220 Personality, PSYC 300 Abnormal, and PSYC 391 Topics: Tests and Measurement.

Requirements - Minor:

A minor in psychology consists of a program of courses totaling at least 21 hours with a grade of "C" or better, submitted to and approved by the department chair, including at least 12 hours at the 200 level or above, of which at least three hours must be at the 300 level. PSYC 250 and 351 may not be included for the minor. Requirements for a Life Span minor include a minimum of 25 hours of courses including SOCL 213(3), SOCL 231(3), SOCL/PSYC 310(3), SOCL 356(4), SOCL 371(3), SOCL 386, SOCL 398, SOCL elective. Non-Sociology majors must take SOCL 350(3).

Radiation Therapy

College: College of Science

Department: Pre-Professional Health

Student Type: Traditional Undergraduate

Lecturers:

Bharat.Mittal, M.D., Medical Director, Radiation Oncology - Northwestern Memorial Hospital
Aleksander Zafirovski, R.T., Program Director - Northwestern Memorial Hospital

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Objectives:

Radiation Therapy uses high energy X-rays, electron beams, or radioactive isotopes as cancer-killing agents. These therapies change the direct physical process of individual cells. The radiation therapist is a highly specialized healthcare professional who is an important part of the healthcare team. The team includes physician, physicists, and nurses. Radiation therapy is one of the most effective treatments today for many cancers and an increasing number of other medical conditions. The radiation therapist delivers highly technical skills to patients requiring high touch care.

Radiation therapy has a great deal of patient contact; patients are usually seen 15-40 different times over the course of their treatment. The program for majors in Radiation Therapy is designed to prepare students to: Interact compassionately and effectively with people who range from healthy to terminally ill.

Professional responsibilities include, but are not limited to:

1. Performing radiation therapy simulations (setting the patients up for their daily treatments);
2. Delivering daily radiation treatments;
3. Evaluating and monitoring treatment delivery equipment;
4. Performing radiation dose calculations;
5. Working under supervision as a member of the medical team, and
6. Collaborating with physicians and other members of the healthcare team. The Radiation Oncology Team includes physicians, nurses, dosimetrists, radiation therapists, physicists, social workers and administrative staff.

Requirements - Major:

Students in the radiation therapy program must complete at least 90 semester hours with a minimum GPA of 2.8 at Benedictine University. Students **MUST APPLY** for admission to Northwestern Memorial Hospital, our clinical education program affiliate hospital, during their junior year. The

admissions process is competitive. Your senior year is a 12-month, 33 semester hour clinical education curriculum in an American Medical Association accredited hospital program affiliated with the University. Upon completion of this B.S. program, the student is eligible to sit for the national registry examination in radiation therapy administered by the American Registry of Radiologic Technologists.

Students majoring in radiation therapy must complete the following courses: MATH 111(3); CMSC 180(2), 182(1); PHIL 240(3); CHEM 113(3), 114(1), 123(3), 124(1); MGT 150(3); BIOL 197(3), 198(3), 199 (1), 203(4), 250(3), 251(1), 258(4); PHYS 113(3), 114(1), 118(3), 119(1). In addition, the following courses must be completed with "C" or better: RADT 330 (2), 331(3), 332(2), 333(2), 334(3), 335(2), 336(2), 337(2), 338WI(3), 339(2), 340(2), 341(2), 342(2), 343(2), 345(2).

Religious Studies (Minor Only)

College: College of Liberal Arts

Department: History, Philosophy and Religious Studies

Student Type: Traditional Undergraduate

Faculty:

John Kloos, Ph.D.

Christine M. Fletcher, M.A.(Oxon), Ph.D.

Rita George Tvrtković, Ph.D.

Lecturers:

Sr. Karen Nykiel, O.S.B., M.S.N.S., M.A.

Fr. Philip Timko, O.S.B., S.T.D.

Fr. Julian von Duerbeck, O.S.B., M.A.

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Objectives:

Students in religious studies will:

1. Show knowledge of how different religions view humanity, the natural world, and the divine;
2. Understand the study of religion as an interdisciplinary task, relating to the arts and humanities on the one hand, and the social and natural sciences on the other;
3. Recognize the diversity of viewpoints and practices in the contemporary world of religious pluralism. Problem solve claims related to "the One and the Many";
4. Engage ethical problems thoughtfully and actively, and contribute to the work of peace and justice.

Requirements - Minor:

Religious Studies minors: 21 hours, can meet 21 hours through any of the following courses:

RELS 100(3), RELS 120(3), RELS 130(3), RELS 140(3), RELS 150(3), RELS 160(3), RELS 165(3), RELS 220(3), RELS 221(3), RELS 250(3), RELS 285(3), THEO 104(3), THEO 225(3), THEO 235(3), THEO 250(3) and must include a 300-level course arranged with faculty, with a grade of "C" or better. At least 12 credit hours at the 200 level or above, including at least three credit hours at Benedictine at the 300 level, must also be completed.

Social Science

College: College of Liberal Arts

Department: History, Philosophy and Religious Studies

Student Type: Traditional Undergraduate

Advisor: Susan Mikula, Ph.D.

Objectives:

This major provides you with a broad introduction to the various social sciences. It is designed for both teaching certificate candidates and those not interested in becoming teachers.

The courses in this program for students in the Teacher Education program were selected to meet the requirements of the Illinois State Board of Education for Social Studies Teachers. The basic major for teachers consists of a 24 hour history field, covering both world and American history, a nine hour political science field and three hours each in anthropology, geography and sociology.

The general social science major, for those not pursuing the teacher certification program, consists of a 21 hour option in history, economics, political science, psychology or sociology, along with either an 18 hour option in another of the above fields, or two 9 hour options in two of the above fields.

Requirements - Major:

The advisor for this program depends on the track chosen: teacher education or general, and in the latter case, on the 21 hour option.

For social science/teacher education or for history, see Dr. Susan Mikula.

For political science, see Dr. Joel Ostrow.

For economics, see Dr. Tim Goines.

For psychology and sociology, see Dr. James Crissman.

For criminal justice, see Dr. James Crissman

Students desiring to teach social studies at the secondary level (grades 6-12) complete the social science/teacher program. Students must complete, with a grade of "C" or better, 24 hours in history, nine hours in political science and three additional courses in the social sciences. At least 24 hours have to be at the 200 level or above, including nine hours at the 300 level. The major will ordinarily consist of the following:

I. History - 24 hours: HIST 111(3), 112 (3), 203/303 (3), 240 (3), 399 (3), nine additional hours, three each from American, European and world history, at least three of which are to be at the 300 level.

II. Political Science - 9 hours: PLSC 101(3), 102(3), 201(3).

III. Nine hours consisting of these courses: ANTH 200(3), GEOG 106(3) and SOCL 100(3).

Students must also complete the Teacher Certification Program in Secondary Education described in the education section.

Students majoring in social science who are not going to be teachers will complete at least 42 hours with a grade of "C" or better. At least 24 hours must be at the 200 level or above, of which at least nine hours must be at the 300 level. In this program, students have two options: a 21 hour concentration combined with an 18 hour secondary concentration, selected from the fields of economics, history, political science, psychology or sociology-anthropology OR a 21 hour concentration and two concentrations of nine hours each, selected from the above fields. Requirements for the 21, 18 and nine hour options are:

1. ECONOMICS

- a. If 21 hours then ECON 101(3), 102(3), 202(3), 310(3), three additional 200 level and six additional 300-level economics hours are required.
- b. If 18 hours, then ECON 101(3), 102(3), 202(3), 310(3) are required.
- c. If nine hours, then ECON 101(3), 102(3) are required.

2. HISTORY

- a. If 21 hours, then HIST 111(3), 112(3), 203(3) and 399(3), and nine additional hours of history, of which six hours are to be from European or world history (three hours at the 300 level).
- b. If 18 hours, then HIST 111(3), 112(3), 203(3) and nine additional hours of history at the 200 level or above, of which three hours must be from world history.
- c. If nine hours, then HIST 240(3) and an additional six hours of world history, or HIST 111(3), 112(3) and another three hour American history course.
- d. Required Cultural Heritage courses are HUMN 220(3) and 230(3).

3. POLITICAL SCIENCE

- a. If 21 hours, then PLSC 103(3), 105/205(3), 210(3), 201(3), 299(3), and an additional six hours at the 200 level of which one course must be at the 300 level are required.
- b. If 18 hours, then PLSC 103(3), 105/205(3), 210(3) 201(3), 299(3) are required.
- c. If nine hours, then PLSC 103(3), 201(3) and 210(3) are required.

4. PSYCHOLOGY

- a. If 21 hours, then PSYC 100(3), nine 200 and nine 300-level psychology hours.
- b. If 18 hours, then PSYC 100(3), nine 200 level and six 300-level psychology hours.
- c. If nine hours, then PSYC 100(3) and six 200-level psychology hours.

5. SOCIOLOGY-ANTHROPOLOGY

- a. If 21 hours, then SOCL 100(3), and 18 additional hours, including nine 300-level hours in sociology or anthropology are required.
- b. If 18 hours, then SOCL 100(3), and 15 additional hours from sociology and anthropology are required.
- c. If nine hours, in sociology, then SOCL 100(3) and six 200-level sociology hours: or, if solely in anthropology, then ANTH 200(3), 208(3) and three additional anthropology hours are required.

6. CRIMINAL JUSTICE

- a. If 21 hours, then CJUS 260(3), and 18 additional hours, including nine 300-level hours in criminal justice.
- b. If 18 hours, then CJUS 260(3), and 15 additional hours from criminal justice.

- c. If nine hours, then CJUS 260(3), and six 200-level criminal justice hours.

Sociology

College: College of Liberal Arts

Department: Psychology, Sociology, Criminal Justice, and MS in Clinical Psychology

Student Type: Traditional Undergraduate

Faculty:

James Crissman, Ph.D., Department Chair

Jane Boumgarden, M.S.W., L.C.S.W., A.C.S.W.

Jonathan Lewis, Ph.D.

Campus: Springfield Branch Campus

Division: Humanities/Social Sciences

Student Type: Traditional Undergraduate

Faculty: Patricia Giacomini, M.A., M.S., Division Chair

Objectives:

Sociology is the scientific study of the variety of ways in which people organize themselves in society and behave. It offers a cross-cultural perspective to understand human behavior. The professional sociologist researches aspects of society such as changing family life or applies sociological research methods and principles to the solution of social problems. This program is designed to:

1. Inform students of sociological research into family, human diversity, neighborhoods, communities and various organizational systems;
2. Introduce students to the statistics and research methods of sociology;
3. Provide a broad background applicable to the wide variety of careers available with a bachelor's degree, focusing especially on social and police agency opportunities; and
4. Serve as a basis for graduate work in sociology, social work, criminal justice, or Life Span Services.

Requirements - Major:

Majors must complete MATH 105(3) or 108(3), or 110(3) with a grade of "C" or better and fulfill the social science requirement of the core by taking one course in psychology, one in economics and one in political science/anthropology. All majors are required to complete a core of: SOCL 100(3), 205(3), 250, 350(3), 351 (3) and 395(3) with a grade of "C" or better.

Majors must select one of the two concentrations within the program that have the following requirements, which must be completed with a grade of "C" or better:

SOCIOLOGY: Seven courses from SOCL 210(3), 213(3), 231(3), 234(3), 235(3), 240(3), 245(3), 260(3), 265(3), 270(3), 290(3), 291(3), 301(3), 306(3), 310(3), 321(3), 356(4), 371(3), 394(3), 397(3).

CRIMINAL JUSTICE: SOCL 260(3), 306(3), 356(4), 390(3), plus four courses from SOCL 240(3), 245(3), 265(3), 270(3), 321(3), 371(3), 391(3).

Field placements require a minimum GPA of 2.5.

Requirements - Minor:

A Sociology minor consists of a program of courses totaling at least 21 hours, submitted to and approved by the program director, including at least 12 hours of courses at the 200 level or above, of which at least three hours must be at the 300 level and must be completed with a "C" or better. PSYC 250, and 351 may not be included for the minor.

Requirements for a Social Work Minor:

A Social Work minor consists of twenty-five hours of courses including SOCL 265(3), 301(3), 356(4), 392(3-6), 270(3), PSYC 202(3) or SOCL 310(3) and SOCL 306(3) and one of the following sociology electives: SOCL 210(3), 240(3), 290(3), 245(3) and 231(3). For non-sociology majors, the elective must be SOCL 350(3).

Requirements for a Life Span Services Minor:

A minimum of 22 hours of courses, including SOCL 213(3); SOCL 231(3); SOCL/PSYC 310(3), 356(4), 371(3), 386(3), 398(3-6), must be completed with a "C" or better and approved by the Director of Life Span Services. Non-sociology majors must take SOCL 350(3).

Requirements - Teaching Certification:

Requirements to be a high school Sociology-Anthropology teacher: Students desiring to be certified to teach sociology-anthropology at the secondary level (grades 6-12) are required to major in social science. (See social science major).

Spanish

College: College of Liberal Arts

Department: Language and Literature

Student Type: Traditional Undergraduate

Faculty:

Rafael Iglesias, Ph.D.

Joaquin Montero, Ph.D.

Beth Vinkler, Ph.D.

Objectives:

The faculty of the Spanish program firmly believes that, for the person who possesses the knowledge of another language and a sensitivity toward other cultures, the world will have fewer boundaries. The development of this knowledge and sensitivity toward other cultures, the world will have fewer boundaries. The development of this knowledge and sensitivity will stimulate students' self-growth and broaden their perspective, thus enabling them to become responsible citizens and leaders in the world community.

We currently offer a major and a strong minor in Spanish. In addition, students can combine the Spanish major with other majors such as international business and economics, education, pre-law, pre-med, and social work.

The faculty subscribes to the proficiency guidelines of the American Council on the Teaching of Foreign Languages and uses them as a basis for instruction.

Courses in Spanish are designed to enable students to achieve the following goals:

1. Initiate and progressively develop communicative skills in listening, speaking, reading, writing and culture;
2. Help students recognize the close relationship between language and culture, enabling them to become culturally sensitive to non-English speaking peoples and societies; and
3. Broaden career opportunities and marketability in an increasingly interdependent world.

The program for majors in Spanish is designed to:

1. Enable students to develop at least intermediate-high level proficiency in all four skills, as stated in the guidelines of the American Council on the Teaching of Foreign Languages (ACTFL). At this level students will be able to:
 - a. Create with the language;
 - b. Handle successfully most uncomplicated communicative tasks and social situations;
 - c. Initiate, sustain, and close a general conversation with a number of strategies appropriate to a range of circumstances and topics, although errors will still be evident;
 - d. Ask and answer questions;

- e. Demonstrate emerging evidence of connected discourse, particularly for simple narration and/or description; and
 - f. Be generally understood even by interlocutors not accustomed to dealing with intermediate-high level speakers;
2. Immerse students in Hispanic culture through study abroad; and
 3. Familiarize students with Spanish and Latin American culture, literature, art, and current political issues and their international ramifications.

The program for minors in Spanish is designed to:

1. Enable students to develop at least Intermediate-Mid level proficiency in all four skills, as stated in the ACTFL guidelines. At this level students will be able to:
 - a. Create with the language;
 - b. Handle successfully a variety of uncomplicated, basic and communicative tasks and social situations;
 - c. Talk simply about self and family members;
 - d. Ask and answer questions and participate in simple conversations on topics beyond the most immediate needs, such as personal history and leisure time activities; and
 - e. Be generally understood by sympathetic interlocutors, although misunderstandings may still arise; and
2. Expose students to the culture, values and lifestyle of a society other than their own.

Requirements - Major:

A Spanish major must complete at least 36 hours from among Spanish courses numbered 201 or above, all with a grade of "C" or better. The 36 hours must include 201(3), 202(3), 211(3), 212(3), 220(3), C221(3), 230(3), 231(3), 305(3), either 307(3) or 310(3), 311(3) and 312(3). Students are also required to participate in a study abroad experience in a Spanish-speaking country. Majors must demonstrate Intermediate-High level proficiency, according to the ACTFL guidelines. Spanish proficiency will be measured in an oral interview with a member of the faculty. It is recommended that this interview be arranged as early as the junior year, but it must take place before the second semester of the senior year. The interview may be repeated until the required level of proficiency is demonstrated.

Requirements - Minor:

A minor in Spanish consists of at least 21 hours of Spanish courses at or above the 200 level completed with a "C" or better. Students must complete 201(3), 202(3), 211(3) and 212(3), plus nine more hours, at least three of which are at the 300 level. Minors must demonstrate intermediate-mid level oral proficiency, according to the ACTFL guidelines. Oral proficiency will be measured in an oral proficiency interview with a member of the foreign languages faculty. It is recommended that this interview be arranged as early as the junior year, but must take place before the second semester of the senior year. The interview may be repeated until the required level of proficiency is demonstrated.

Requirements - Teaching Certification:

Students desiring to be certified to teach Spanish at the secondary level (grades 6-12) are to declare themselves as Spanish majors and education minors. Advisement is a joint responsibility of the

Spanish and education programs. Students must complete requirements for the major, requirements for the Secondary Education program and for the Teacher Education Program (see Education).

Other Information:

Language Placement:

Students who have studied Spanish in high school will take a placement exam. Language placement exams will also be administered for students who have acquired a level of proficiency in Spanish in a non-classroom setting (e.g. native speakers, home use of Spanish or study abroad), and for those students who have a lapse of a year or more in their language studies.

Upon earning a grade of "C" or better in a language course at Benedictine University at or above the 102-level, students may apply for a maximum of six hours of proficiency credit in that language. The specific course(s) for which students receive credit will be determined by the Benedictine University course(s) taken.

All candidates for the B.A. degree majoring in English language and literature, history, philosophy, music, writing and publishing and international business and economics are required to demonstrate competency in a second language by successful completion of at least one language course at or above the 202-level. These students will be placed in language courses and awarded proficiency credit in languages in accordance with the procedures outlined above.

Study Abroad and Internships:

All majors and minors in languages are strongly encouraged to spend at least a summer, and preferably a semester, abroad in a country whose language the student has been studying. Students in teacher education may study abroad. This experience is vital in that it gives the student the opportunity to observe, firsthand, the culture he or she has been investigating at Benedictine. It also provides real-life intensive language exposure and practice that simply cannot be replicated in the classroom.

Benedictine students have access to a variety of internship and university study programs through Benedictine University and other accredited institutions. The languages faculty, in cooperation with the International Center director, will assist each student in selecting the program best suited to his or her needs and interests.

Language Honor Societies:

Benedictine University has chapters of two international language honor societies on campus. They are the Delta Nu chapter of Phi Sigma Iota, an honor society for students of all languages, and the Nu Kappa chapter of Sigma Delta Pi, the Spanish honor society. Initiation is held for these honor societies each spring. Students who have at least 18 semester hours of college credit in any one language, and who are in the top 35 percent of their class should contact the Chair of the Department of Languages and Literature for more information about these honor societies.

Departmental Distinction:

Students majoring in English Language and Literature or Spanish in the Department of Languages and Literature who meet the following criteria may apply for Departmental Distinction: 1) GPA in the

major of 3.5 or higher, 2) Overall GPA of 3.25 or higher, 3) Successful completion of a senior thesis, 4) Oral presentation of a paper at either a regional undergraduate conference or a colloquium sponsored by the department, 5) Active participation in department activities (e.g. Help organize and attend presentations by invited speakers, off-campus events, and Open Mic sessions, write for and/or work on Different Voices or Quantum Pulp, help organize and run initiation ceremonies for honor societies, etc.), and 6) At least 25 hours of community service related to the field (e.g. Tutoring in the ARC, community literacy volunteer, work at an area social service agency serving the Hispanic community, etc.).

Students interested in working towards Departmental Distinction should speak with their advisor and contact the Chair of the Department of Languages and Literature as early as possible in their academic career. Students must apply for Departmental Distinction during the semester BEFORE the semester in which they plan to graduate (October or February).

Special Education

College: College of Education and Health Services

Department: Teacher Education

Student Type: Undergraduate

Requirements - Minor: See Education

Studio Art

College: College of Liberal Arts

Department: Communication Arts

Student Type: Traditional Undergraduate

Faculty:

William Scarlato, M.F.A.

Teresa Parker, M.F.A.

Adjunct Faculty:

David Marcet, M.F.A.

Jennifer Scavone, M.A.

Vince Lucarelli, B.A.

Karen Brooks, B.A.

The adjunct faculty listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Objectives:

Courses in fine arts are designed to:

1. Train students to produce works of art within the traditional and contemporary traditions of Western Art, and to achieve an acceptable level of individual competency within at least one chosen medium of specialization;
2. Educate students within the Catholic liberal arts tradition, recognizing the ultimately interrelated nature of all knowledge and its ability to foster the mental and spiritual life of each individual;
3. Instill in each student a recognition that the process of education and artistic development is an ongoing, lifelong endeavor worth of setting future developmental goals; and
4. Provide students with an educational background sufficient for entry into graduate study or for entry-level employment in an art or art-related field.

Requirements - Major:

The studio art major must complete the following courses with a "C" or better: FNAR 101(3), 111(3), 203(3), 204(3), 210(3), 250(3), choice of two C200-level Printmaking (3), 293(3), 311(3), 398(3), and one 300-level course of choice(3).

An additional course in sculpture, or another 3-D course, must be taken at the College of DuPage or Consortium Institutions for completion of degree requirements.

The student will be expected to provide his/her own transportation to the off-site campuses.

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Cognate requirements:

In addition to the art courses, students are required to complete three credit hours from the communications discipline and six credit hours of foreign language.

Theology

College: College of Liberal Arts

Department: History, Philosophy and Religious Studies

Student Type: Traditional Undergraduate

Faculty:

Dr. Christine Fletcher, Ph.D.

Dr. Rita George-Tvrtkovic, Ph.D.

Lecturers:

Fr. Becket Franks, O.S.B., D.Min.

Sr. Karen Nykiel, O.S.B., M.S.N.S., M.A.

Fr. Julian von Duerbeck, O.S.B., M.A.

The lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Campus: Springfield Branch Campus

Division: Humanities/Social Sciences

Student Type: Traditional Undergraduate

Faculty: Patricia Giacomini, M.A., M.S., Division Chair

Objectives:

Our program is designed for a lay person who wishes to apply Catholic theology to the great questions of human life. Our goal is to prepare students for an intellectual engagement with the Catholic tradition which they will bring to their workplace, home, and community.

Students in Theology will:

1. Show knowledge of the fundamentals of Catholic Scripture and Tradition, and what they say about God, humanity, the natural world, and virtuous living.
2. Understand the study of religion as an interdisciplinary task, relating to the arts and humanities on the one hand, and the social sciences on the other;
3. Show knowledge of Catholic views on religious diversity.
4. Engage ethical problems thoughtfully and actively, and contribute to the work of peace and justice.

Requirements - Major:

All majors must submit at least 36 credit hours in Major courses, with a grade of "C" or better, of which 24 hours are at the 200 level or above, including 9 hours at the 300 level.

One Writing Intensive course must be completed within the major.

Requirements - Minor:

Minors must complete, with a grade of "C" or better, 21 hours including:

THEO 101, 102, 103, 104 plus six hours at the 200 level and three hours at the 300 level.

Requirements - Other:

Theology in Life Certificate: Certificate Students must complete THEO 101, 102, 103, 104.

Writing and Publishing

College: College of Liberal Arts

Department: Communication

Student Type: Traditional Undergraduate

Faculty:

Zubair Amir, Ph.D.

Wilson Chen, Ph.D.

Jean Marie Kauth, Ph.D.

Elizabeth B. Kubek, Ph.D.

Luigi Manca, Ph.D.

Peter B. Seely, M.A., Department Chair

Lecturers:

Kaleshia Page, M.A.

The lecturers listed are individuals who have been employed as instructors on an as-needed basis, within the last several years, to teach courses at Benedictine University. Instructors listed may not currently be employed by Benedictine University. The University is fortunate to be able to provide our students with part-time faculty whose experience, credentials and commitment to education add to the high quality of our resident faculty.

Campus: Springfield Branch Campus

Division: Arts and Letters

Student Type: Traditional Undergraduate

Faculty: David Logan, M.A., Division Chair

Objectives:

The program is designed to:

1. Develop the student's critical and imaginative thinking, reading and writing skills;
2. Develop skills to empower the student to communicate ideas effectively, through speaking, writing and the use of technology;
3. Develop textual interpretation skills media;
4. Foster aesthetic understanding in both production and interpretation of literary and media texts;
5. Develop knowledge of the methods to make responsible social and personal decisions;
6. Develop primary and secondary research methods;
7. Prepare graduates for careers in advertising, electronic and print media, journalism, public relations, publishing, writing or other careers requiring sophisticated communications skills;
8. Prepare for graduate or professional studies;

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9. Develop an appreciation and understanding of literature in English and in translation;
10. Increase understanding of significant writers, periods, genres and literary traditions;
11. Teach methodologies for interpreting literary texts;
12. Emphasize the vital role of imagination in cultures;
13. Develop an understanding of the history, structure and operation of the mass media;
14. Provide an understanding of the impact of mass media and messages on the individual and society;
15. Develop professional communication skills for a variety of media and audiences;
16. Develop professional-level production skills for both print and electronic media;
17. Encourage the development of creative expression; and
18. Help the student develop a professional media portfolio.

Requirements - Major:

Students majoring in writing and publishing must complete 39 hours of courses offered in the Communications Arts and English Language and Literature departments, with a grade of "C" or better, including courses in the following categories:

1. A core of the following communication arts courses: COMM 207(3), 208(3), 209(3), 253(3), 317(3), 353(3).
2. A core of the following five English language and literature courses: LITR 100(3), 263(3), 269(3); one course from LITR 264(3), 279(3), 280(3) or 281(3); and one course from LITR 362(3) or SPAN 310(3).
3. One theory elective from the following courses: COMM 385(3), 386(3), 387(3), 390(3); LITR 305(3), 381(3).
4. One elective from the following courses: COMM 337(3), 381(3); LITR 369(3), 370(3).

Through working with advisors, majors will be guided in the selection of courses within and outside the departments to plan a program of studies tailored to individual educational and career goals. Majors are required to complete at least one modern language course at or above the 202-level.

Requirements - Other:

Writing and Publishing major for pre-law students:

While stating that no single major is recommended for admission to law school, the "Statement on Prelegal Education of the Association of American Law Schools" emphasizes the necessity for the "need to master, at the undergraduate level, advanced writing skills and effective oral communication....Truly, the law-trained man or woman, to perform effectively the tasks expected, must be a precisionist in the use of language." Students interested in law school who choose communication arts, English language and literature or writing and publishing as a major are advised to take, in addition to requirements, the following courses, some of which may be applicable to the divisional cores: PHIL-260 or 355(3) and a history course; ECON 101(3), ACCT 111(4), PLSC 202(3) and Statistics; CMSC 100(3), BIOL 197(3) or 198(3), and BCHM C100(3).

LISLE COURSE DESCRIPTIONS

Academic Discourse Undergraduate

ADU 100 Orientation. This course is designed to provide an introduction to the Benedictine University community for international students. Students will become comfortable with key aspects of the academic culture and community of the University, will be provided with support and information for various aspects of academics and campus life, and will build confidence and skills through interaction with members of the Benedictine University community. Typically offered: Fall and Spring Terms. *Department Consent Required.*

ADU 101 Introduction to Academic Discourse. This course focuses on the development of reading, writing and study skills for a range of academic purposes, disciplines and audiences. Assessment of student work is by portfolio submission. Corequisite: ADU 100. 3 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

ADU 102 Success in the American Classroom. This course integrates and extends academic discourse skills practiced in ADU 101 with a focus on longer writing assignments, oral presentation skills, and discipline-specific research and writing. Assessment of student work is by portfolio submission. Prerequisites: ADU 100; ADU101, or placement. Prerequisite or corequisite: WRIT 101 designated section or placement. 3 semester credit hours. Typically offered: Spring Term.

ADU 110 Introduction to Spoken Academic Discourse. This course focuses on developing advanced listening and speaking skills for a range of academic purposes, disciplines and audiences. Assessment of student work is by portfolio submission. Prerequisite or corequisite: ADU 100 or placement. 3 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

ADU 111 Academic Skills Lab. Sequence of lab sessions designed to support and consolidate speaking and listening skills. Repeatable once for credit. Prerequisites or corequisites: ADU 100; ADU 101 or WRIT 101 designated section; or placement. 1.5 semester credit hours. Typically offered: Spring Term, Even Years. *Department Consent Required. Course Repeatable. Maximum number of units allowed 3.*

ADU 112 Individual and Small Group Study Lab. Sequence of study groups and activities that support academic skills across the curriculum. Repeatable for credit. Prerequisite or corequisite: ADU 100, ADU 101 or WRIT 101 designated section or placement. 1.5 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 90.*

ADU 113 Self-Guided Skills Lab. Sequence of individual study sessions using online and other self-paced materials. Prerequisites or corequisites: ADU 100; ADU 101 or WRIT 101 designated section. 1.5 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 90.*

ADU 114 Advanced Academic Skills Lab. Sequence of study groups and activities that support advanced academic skills across the curriculum. Prerequisites or corequisites: ADU 100; ADU 101 or

WRIT 101 designated section. 1.5 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 90.*

ADU 203 English for Academic Purposes: Advanced English Writing. An immersion experience in a controlled environment which requires that students use English only for communication and academic work. 3 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

Accounting

ACCT 100 Fundamentals of Accounting for Decision-making. This course is designed for non-business majors who would like to learn the basics of accounting. Students are introduced to fundamental accounting concepts and information. They will learn to apply and use accounting fundamentals to start and run their own business or nonprofit organization and for their personal use. Students are introduced to fundamental accounting concepts and information. Yearly. 3 semester credit hours. Business Core Elective. Typically offered: Annually.

ACCT 111 Accounting I. Principles of financial accounting; including the basic structure of accounting, accounting systems and controls, the preparation and use of financial statements, and problems related to financial disclosures. Credit will not be granted for both ACCT 111 and ACCT 115. IAI BUS 903. Prerequisite: MATH 105 or MATH 110 or coregistration in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall and Spring Terms.

ACCT 112 Accounting II. Principles of managerial accounting; including cost accounting, planning and control systems, and analysis and interpretation of financial statements. IAI BUS 904. Prerequisite: ACCT 111. 3 semester credit hours. Typically offered: Fall and Spring Terms.

ACCT 120 VITA Service Learning. A service learning course built around the Internal Revenue Service (IRS) volunteer income tax assistance (VITA) program. Students must participate in the training, successfully complete an IRS take-home exam, and participate in at least one volunteer income tax advising session. 1 semester credit hour. *Department Consent Required. Course Repeatable. Maximum number of units allowed 3.*

ACCT 211 Intermediate Accounting I. A thorough study of balance sheet accounts integrated with an analysis of their relationship to the income statement. Prerequisite: ACCT 111. 3 semester credit hours. Typically offered: Fall Term.

ACCT 212 Intermediate Accounting II. A thorough study of balance sheet accounts integrated with an analysis of their relationship to the income statement. Prerequisite: ACCT 211. 3 semester credit hours. Typically offered: Spring Term.

ACCT 215 Accounting Research. Students will become familiar with sources of accounting standards and current information affecting the accounting profession. Their communication and research skills will be used to learn about and report on the reasoning behind the development of accounting standards and current issues in accounting. This course is required by Illinois for CPA candidates. Prerequisite: ACCT 211 and sophomore standing. 2 semester credit hours. Typically offered: Fall and Spring Terms.

ACCT 297 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Typically offered: Periodically. Department Consent Required. Course Repeatable. Maximum number of units allowed 12.

ACCT 310 Accounting Information Systems. Students will learn to analyze the role of accounting information systems within a company's operating systems; appreciate the wider view of accounting's role in an organization as an integrated and comprehensive database; and learn the connections between transaction cycles, internal controls and computer ethics. Students will use accounting software to complete projects and study auditing of accounting information systems, databases and e-business. Sophomore standing. Cross listed with MIS 510. Prerequisite: ACCT 111 and ACCT 112. 3 semester credit hours. Typically offered: Fall Term.

ACCT 311 Cost Accounting. A comprehensive study of methods used to develop cost information for manufacturing and service operations and of models for business planning and control. Prerequisite: ACCT 112. 3 semester credit hours.

ACCT 312 Federal Taxation. An introductory study of federal regulations covering income taxation of individuals and businesses. Prerequisite: ACCT 112. 3 semester credit hours. Typically offered: Fall Term.

ACCT 313 Auditing and Assurance Services. An intensive study of PCAOB auditing standards, generally accepted auditing standards and procedures. Prerequisite: ACCT 212. 3 semester credit hours. Typically offered: Fall Term.

ACCT 315 Advanced Accounting. A study of the accounting methods for consolidations, foreign subsidiaries, governmental organizations, non-profit entities, and partnerships. Prerequisite: ACCT 212. 3 semester credit hours. Typically offered: Spring Term.

ACCT 321 Forensic Accounting. A comprehensive study of forensic accounting topics. This course provides students of all majors, concentrations and level of study with a background in the field of forensic accounting - fundamentals, tools and accounting applications. Cross listed with MBA 606. Prerequisite: ACCT 111. 3 semester credit hours.

ACCT 322 Fraud Examination. An examination of schemes used by executives, managers and employees to commit fraud against their organizations and the prevention, detection and investigation strategies used to combat these schemes. Cross listed with MBA 607. Prerequisite: ACCT 321. 3 semester credit hours.

ACCT 323 Computer Fraud. This course provides an understanding of how fraud is accomplished by the use of computers and the Internet. It discusses the types of computer fraud that can occur in organizations and how computer fraud can be prevented. Cross listed with MBA 609. Prerequisite: ACCT 321. 3 semester credit hours.

ACCT 324 Fraud and the Legal Environment. This course examines criminal theory relating to fraud, existing legislation governing fraud and preparation of fraud cases in the court system. Cross listed with MBA 608. Prerequisite: ACCT 321. 3 semester credit hours.

ACCT 380 Issues in Corporate Financial Reporting. An intensive and extensive study of corporate reporting to understand and evaluate the application of financial accounting theory and concepts. This course has a substantial accounting research component comprising two-thirds of the course. Prerequisite: ACCT 212, senior standing. 3 semester credit hours. Typically offered: Spring Term.

ACCT 391 Topics. Specially designed courses in various business topics to supplement the business curriculum. Prerequisite: Varies based upon the specific topic being explored. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

ACCT 395 Independent Study. Provides an opportunity for an advanced student in the major to pursue study in a field of business related interest. Prerequisite: Consent of instructor. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

American Studies

AMS 200 U.S. Cultural Studies. Incorporates elements of fiction and non-fiction in the study of various topics of race, gender and class in American Studies. Topics will vary. 3 semester credit hours.

Anthropology

ANTH 200 Cultural Anthropology. Study of the origins of mankind and culture. Development of human language, culture and institutions, cross-cultural analysis of societies and cultures. IAI S1 901N. 3 semester credit hours. Anthro Core and Multi-Cultural.

ANTH 201 Physical Anthropology. Focuses on forces producing humans in their present form. The study of evolution, population genetics and the fossil record. Prerequisite: "C" or better in: BIOL197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

ANTH 207 Contemporary Industrial Society. This course examines the social and cultural make-up of advanced industrial societies in terms of technology, lifestyles, urbanism and environment. 3 semester credit hours.

ANTH 208 The Anthropology of the Third World. A study of developing nations. Analyzes the relationship between culture, environment and society in economic spheres, emphasizing the Third World. 3 semester credit hours. Anthropology Core Elective.

ANTH 210 Peoples and Cultures of World Regions. Alternating People/Cultures of Latin America, Africa and East Asia. 3 semester credit hours. Anthro Core and Multi-Cultural.

ANTH 290 Social and Cultural Change. Analysis of large scale historical change, the succession of types of societies and the emergence of the contemporary world. Evolution of social institutions (the family, religion) and speculation about significant future change. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

ANTH 291 Topics in Anthropology. Topics such as globalization, cultural survival of indigenous peoples, Native American cultures, development and readings in anthropology. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 3.*

ANTH 292 Business Anthropology: Culture and International Business. Introduction to the impact of cultural variation on the functional areas of business with emphasis on globalization and the development of the world system. 3 semester credit hours. Anthropology Core Elective.

ANTH 295 Independent Study. Directed readings, independent research, or student projects on areas of individual academic interest; topics, meeting times, and outcomes arranged with instructor. 3 semester credit hours. *Department Consent Required.*

ANTH 309 People, Culture and Environment. The relationship between environment and social organization including subsistence activities, resource exploitation and development. 3 semester credit hours. Anthropology Core Elective.

ANTH 391 Topics in Anthropology. Topics such as globalization, cultural survival of indigenous peoples, Native American cultures, development and readings in anthropology. 3 semester credit hours. Typically offered: Periodically.

Arabic

ARBC 101 Elementary Arabic I. Introduction to the basic structure of the language. Designed to enable the student to develop oral proficiency and written skills. 3 semester credit hours. Typically offered: Fall and Spring Terms.

ARBC 102 Elementary Arabic II. Introduction to the basic structure of the language. Designed to enable the student to develop oral proficiency and written skills. Spring. Prerequisite: ARBC 101 or placement. 3 semester credit hours. Typically offered: Fall and Spring Terms.

ARBC 191 Conversation and Culture. This course provides an introduction to and highlights of Arabic culture and basic language skills. Spring term. 1 semester credit hour. Typically offered: Spring Term.

ARBC 201 Intermediate Arabic I. Review of the basic structure of the language. Emphasis on extensive language practice in simulated cultural settings which will enable students to continue to develop their oral and written proficiency. Periodically. Placement. 3 semester credit hours.

ARBC 202 Intermediate Arabic II. Review of the basic structure of the language. Emphasis on extensive language practice in simulated cultural settings which will enable students to continue to develop their oral and written proficiency. Periodically. Prerequisite: ARBC 201 or placement. 3 semester credit hours.

Astronomy

ASTR 105 Astronomy. Examines astronomical phenomena and concepts including the solar system, stars, galaxies, planetary motions, atoms, radiation, and the origin and evolution of the universe. 4 semester credit hours.

Benedictine Beginnings

BENB 100 Benedictine Beginnings. New Student Orientation. Typically offered: Periodically.

BENB 95 Bridge to Success. The Bridge to Success program is designed to help incoming freshmen who may need additional academic support or opportunities to build confidence and prepare for the challenges of college learning. This week-long program combines instruction and hands-on learning activities in writing, math and study skills with career exploration and personal leadership development activities to help students prepare academically, encourage them to get involved in campus life and engage them in career development functions. Invitation by referral. Typically offered: Summer Term. *Department Consent Required.*

BENB 99 Benedictine Beginnings-Freshman Success Seminar. Mandatory eight-week seminar for all first-year freshmen who are placed on academic probation. Students will examine classroom success strategies, participate in self-exploration exercises, develop an understanding of University expectations, explore campus resources and practice effective communication techniques. A framework will be built for future success not only as a student, but also as a member of the Benedictine community. Pass/Fail. Typically offered: Spring Term. *Department Consent Required.*

Bilingual Journalism

BIJR 150 Bilingual Journalism. Introduction course in Bilingual Journalism. A hands-on approach to teaching news editing for Spanish publications parallels COMM 150: Introduction to Communications. 3 semester credit hours.

BIJR 207 Editing Publications - in Spanish. A hands-on approach to teaching news editing for Spanish publications parallels COMM 207: Editing for Publications. Prerequisite: COMM 209. 3 semester credit hours. Typically offered: Even Years.

BIJR 337 Advanced Journalism Writing - in Spanish. A hands-on approach to teaching advanced journalism writing for Spanish publications parallels COMM 337: Advanced Journalism Writing. Prerequisite: COMM 209. 3 semester credit hours. Typically offered: Even Years.

BIJR 353 Advance Writing, Editing and Page Design for Publications - in Spanish. A hands-on approach to teaching advanced writing, editing and page design for Spanish publications parallels COMM 353: Adv Writing, Editing and Page Design for Publications. Prerequisite: COMM 208. 3 semester credit hours. Typically offered: Even Years.

Biochemistry

BCHM 100 Impact of Science and Technology on Society. Current scientific issues of personal and national interest, e.g. drugs, nutrition, energy, pollution, etc. 3 semester credit hours. Life Science Core Elective. Typically offered: Fall and Spring Terms.

BCHM 251 Introduction to Biochemistry. The structures and functions of carbohydrates, lipids, proteins and nucleic acids and their reactions in metabolic pathways. Restricted to Nutrition majors. Prerequisite: CHEM 103. (Students cannot earn credit in BCHM 251 and BCHM 261 or BCHM 361). 3 semester credit hours. Life Science Core Elective. Typically offered: Fall Term.

BCHM 261 Principles of Biochemistry. The structures and functions of carbohydrates, lipids, proteins and nucleic acids and their reactions in metabolic pathways. (Students cannot earn credit in both BCHM 261 and 361). IAI CLS 910; NUR 910. Prerequisite: CHEM 247. 3 semester credit hours. Life Science Core Elective. Typically offered: Fall and Spring Terms.

BCHM 290 Selected Topics in Biochemistry. Current topics in Biochemistry. 1-3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

BCHM 292 Research Literature. Discussion and application of online sources containing scientific publications and other information, e.g., SciFinder. The introduction of a report for a research project will be completed. 1 semester credit hour.

BCHM 295 Biochemistry Teaching. Opportunity for a student to work as a teaching assistant in the chemistry department. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 8.*

BCHM 361 Biochemistry. The structure and function of the major chemical components of biological systems are described. The major topics include water, buffers and pH; proteins; enzymes; carbohydrates; lipids; and vitamins. Prerequisite [Main Campus]: CHEM 247. Prerequisite [Springfield Campus]: CHEM 241. 3 semester credit hours. Life Science Core Elective. Typically offered: Fall Term.

BCHM 362 Protein Biochemistry Lab. A laboratory course in which protein purification and characterization will be carried out. In addition, some of the aspects of the structure and function of proteins and enzymes will be explored. This course is intended for biochemistry/molecular biology majors. Prerequisite: BIOL 260 and credit or co-registration in BCHM 361. 1 semester credit hour. Typically offered: Fall Term.

BCHM 365 Intermediary Metabolism. The major metabolic pathways and cellular bioenergetics are discussed. An emphasis is placed upon the chemistry of these processes. Prerequisite: BCHM 361. 3 semester credit hours. Typically offered: Spring Term.

BCHM 390 Selected Topics. Current advanced topics in Biochemistry. 1-3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

BCHM 393 Biochemical Internship. Practical experiences in biochemistry under the supervision of the program faculty. 1-6 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

BCHM 398 Biochemical Research. Required for all biochemistry/molecular biology majors. Original experimental research conducted under the supervision of a faculty or adjunct faculty member. Projects may be conducted on campus or at an affiliated research facility. Publication of the data in a scientific journal is a course objective. 1-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

Biology

BIOL 105 Physical Geography. An introduction to hydrology and the physical processes operating in and on the planet earth. Topics of study will include ground and surface water, the hydrologic cycle, watershed models, groundwater recharge, geomorphology, tectonics, structural features, and geological processes relating to natural resource management, environmental processes and concerns. 3 semester credit hours. Physical Science Core Elective. Typically offered: Periodically.

BIOL 120 Genetics of Everyday Life. Introduces the non-science major to the classical principles of genetics. Emphasis is on human genetic disease and genetic biotechnology including social, cultural and ethical implications. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

BIOL 130 The Search for Life in Outer Space. Integration of biology and astronomy to address the provocative questions of whether we are alone in the universe, how life originated on earth and whether we can find or contact extraterrestrial life. Intended for non-biology majors. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

BIOL 135 Forensics. Fundamental principles and methods of biological forensics. Intended for non-biology majors. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

BIOL 140 Origins of Humanity. Introduction to human evolution. Introduces the nonscience major to what the fossil record reveals, the place of humans in the natural world and the biological reasons for modern human physical variation. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

BIOL 150 Biology of Women. Discusses biology of gender with special emphasis on the physical structure, function and health concerns of women. The intention is that both women and men understand the complex functioning of the female body and women's unique health issues. Intended for non-biology majors. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

BIOL 155 Anatomy and Physiology. Integrated approach to structure and function of the human body. All the major organ systems will be studied. For physical education majors. Prerequisite: High School Biology and Chemistry. 4 semester credit hours. Life Science Core Elective. Typically offered: Spring Term. *Department Consent Required.*

BIOL 160 Plagues and People. This course for non-biology majors is an introductory survey of microbiology that focuses on plagues and their effects on people. It introduces students to collegiate-level thinking and investigating issues in science and biology. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

BIOL 165 Wine Laboratory and Winery Operations. This course will explore wine-making, including all phases of small scale wine production, and the biology and chemistry of wine and wine production. For non-science majors. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

BIOL 170 Animal Behavior. Exploration of animal behavior including how evolution, genetics and ecology play a role in animal diversity. Intended for non-biology majors. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

BIOL 175 Wild Chicago. This course explores the unique biodiversity of the Chicago Region by studying local plants, animals and habitats; investigates past and present negative ecological problems regarding regional natural areas, and delves into the endeavors made to reverse these ecological problems. For non-science majors. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

BIOL 180 The Ecology of a Changing Planet. Introduces the non-science major to the basic ecological processes and science that are involved in many environmental concerns. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

BIOL 191 Selected Topics. Special topics in biology at an introductory level. Periodically. 1-3 semester credit hours. Life Science Core Elective. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

BIOL 197 Principles of Organismal Biology. Key concepts in organismal biology on which advanced courses will build. Includes introduction to evolution, ecology, development, and reproduction and survey of bacteria, protists, fungi, plants and animals. 3 semester credit hours. Life Science Core Elective. Typically offered: Fall and Spring Terms.

BIOL 198 Principles of Biology. Key concepts in biology on which advanced courses will build. Includes basic biological molecules, molecular biology, cell structure/function, transport processes, bioenergetics and genetics. For science majors. Prerequisite: Co-registration or credit in CHEM 113 or CHEM 103. 3 semester credit hours. Life Science Core Elective. Typically offered: Fall, Spring and Summer Terms.

BIOL 199 Principles of Biology Lab. Methods and techniques of laboratory investigation. Coregistration or "C" or better in BIOL 198 or equivalent and "C" or better in MATH 110 or MATH 105 or MATH 108 or above. 1 semester credit hour. Life Science Core Elective. Typically offered: Fall and Spring Terms.

BIOL 201 Physical Anthropology. Focuses on forces producing humans in their present form. The study of evolution, population genetics, and the fossil record. Prerequisite: "C" or better in: BIOL197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 203 Human Anatomy. Study of human organism structure through online interactive software and cadaver observation. Lecture and Lab. A biology major cannot receive credit for both BIOL 203 and 254. IAI CLS 903; NUR 903. Prerequisite: "C" or better in: BIOL197, BIOL 198, CHEM 101 or 113, and CHEM 103 or 123. Fee: \$130. 4 semester credit hours. Typically offered: Fall and Spring Terms.

BIOL 204 Advanced Botany. A detailed study of the plant kingdom using a morphological and anatomical approach. Labs will consist of microscope slide work, dissections and aspects of plant ecology and physiology. Prerequisite: "C" or better in BIOL 197, BIOL 198, BIOL 199 or 299, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Fall and Spring Terms.

BIOL 205 Environmental Science. A survey of environmental science with an emphasis on global concerns, biological and physical resources, resource use, conservation issues, and the interactions among science, society, and the environment. Prerequisite: "C" or better in: BIOL197, BIOL 198, CHEM 113, and CHEM 123. Cross listed BIOL 205/ENVS 205. 3 semester credit hours. Typically offered: Fall Term.

BIOL 208 General Microbiology. -Comprehensive survey of the biology of microorganisms, especially bacteria. Includes topics in growth, metabolism, physiology, taxonomy, ecology and biotechnology. Lecture and lab. IAI CLS 905; NUR 905. Prerequisite [Main Campus]: "C" or better in BIOL 197, BIOL 198, BIOL 199 or 299, CHEM 101 or 113, and CHEM 103 or 123. Prerequisite [Springfield Campus]: BIOL 193, CHEM 121. 4 semester credit hours. Typically offered: Fall and Spring Terms.

BIOL 224 Field Botany. Identification and classification of native and naturalized flowering plants of Illinois. Prerequisite: "C" or better in BIOL 197, BIOL 198, BIOL 199 or 299, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 228 Vertebrate Embryology. Developmental anatomy, genetics and physiology of vertebrates with emphasis on human development, pregnancy, and birth. Lecture and lab. Prerequisite: "C" or better in: BIOL197, BIOL 198, CHEM 113, and CHEM 123. 4 semester credit hours. Typically offered: Spring Term.

BIOL 229 Biostatistics. A quantitative approach to biology; emphasis is on the design and analysis of biological experiments. Prerequisites [Main Campus]: "C" or better in MATH 110 or placement higher than 110, BIOL 197, 198, and 199 or 299 or NTSC 152, CHEM 113, and CHEM 123. Prerequisites [Springfield campus]: MATH 110 or higher, BIOL 194. 3 semester credit hours. Typically offered: Fall and Spring Terms.

BIOL 230 Plant-Soil Relationships. Topics include effects of soil on plant growth and nutrition, and how plants affect the soil. ACCA Cooperative College Botany Program with the Morton Arboretum. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 249 Parasitology. The morphology and life histories of animal parasites and their relation to the spreading of disease. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 250 Genetics. A survey course emphasizing Mendelian inheritance, molecular, cellular and medical genetics as well as current genetic research and its applications. Prerequisite of "C" or better in BIOL 197 and 198, CHEM 113 and 123. 3 semester credit hours. Typically offered: Fall and Spring Terms.

BIOL 251 Genetics Laboratory. Designed to illustrate principles formulated in BIOL 250. Prerequisite: Co-registration or "C" or better in BIOL 250. 1 semester credit hour. Typically offered: Fall and Spring Terms.

BIOL 254 Comparative Vertebrate Anatomy. Comparative and phylogenetic study of the anatomy of vertebrates. Lab and museum work. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 4 semester credit hours. Typically offered: Periodically.

BIOL 256 Comparative Animal Physiology. A study of basic life functions in animals emphasizing the mechanisms for maintenance of homeostasis in response to environmental factors such as water and dehydration, salts and ions, temperature, light, and daily and seasonal rhythms. May or may not be offered with lab. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3-4 semester credit hours. Typically offered: Periodically.

BIOL 258 Human Physiology. The study of the control and function of human organ systems. Lecture only. IAI CLS 904; NUR 904. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 101 or 113, and CHEM 103 or 123. 4 semester credit hours. Typically offered: Fall and Spring Terms.

BIOL 259 Human Physiology Laboratory. Lab uses standard clinical equipment to illustrate principles of physiology. IAI CLS 904; NUR 904. Prerequisite: "C" or better in BIOL 258. 1 semester credit hour. Typically offered: Fall and Spring Terms.

BIOL 260 Recombinant DNA Lab. Current techniques in manipulating DNA, such as PCR and subcloning, for expression of proteins. Gene product will be studied further in subsequent labs in the series. This lab is intended for Biochemistry/Molecular Biology majors. Prerequisite: "C" or better in BIOL 250. 1 semester credit hour. Typically offered: Spring Term.

BIOL 263 Tropical Ecology. A course on the composition and change in contemporary and historical tropical forests. Includes surveys of plants and animals and their interactions, and ecological concepts controlling biodiversity. Depending on the year, either Spring term on-campus lectures with local weekend field trip(s), or Summer term longer trip to site in Costa Rica. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 271 Biology of Mammals. The habits, classification, life histories, and economic relations of North American mammals. Museum work. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 272 Zoology. An organized presentation of the animal kingdom. The class emphasizes the structure of animal traits and how they help the animal function as an integral whole entity. A secondary goal is comparative anatomy of the animal classes. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 273 Biology of Birds. The habits, classification, and life histories of North American birds. Museum and field study. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 275 Invertebrate Zoology. Survey of major invertebrate animal groups through comparative study of their biodiversity, anatomy, physiology, development, and ecology. Focus on evolutionary relationships and importance of reproductive, development, feeding, mobility, skeletonization, bilaterality, cephalization, terrestrialization, parasitism and carnivory. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 279 Freshwater Ecology. Relationships between water, animals, plants and humans are investigated using the Shedd Aquarium as the laboratory. An introduction to the components of a freshwater habitat and a survey of the plants and animals that exist there, offered through the ACCA Cooperative College Program. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 280 Marine Mammology. Classification, distribution, feeding habits, physiology anatomy and reproduction of marine mammals will be investigated using the Shedd Aquarium as the laboratory, offered through the ACCA Cooperative College Program. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 281 ACCA Seminar. Evening seminar dealing with advanced topics in biology. Topics are announced. 1 semester credit hour. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

BIOL 282 Vascular Plant Taxonomy. An introduction to the theory and practice of vascular plant classification. Field work and a personal collection are required. ACCA Cooperative College Botany Program with the Morton Arboretum. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 4 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 283 Contemporary Ethnobotany. A study of the influence of plants on our economic, social and political history, and plants humans have chosen to protect and cultivate. Lab includes horticultural and identification work with economically important plants, and trips to plant conservatories. ACCA Cooperative College Botany Program with the Morton Arboretum. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 284 Woody Plants of the Western Great Lakes Region. An introduction to the composition and identification of the woody flora of the western Great Lakes region. The impact of geology, climate and soils on the development of woody flora will also be considered. ACCA Cooperative College Botany Program with the Morton Arboretum. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 4 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 285 Biology of Algae. An introduction to the algae, including the classification, structure and reproduction of major groups. Lab includes field collections and laboratory studies of local freshwater and soil algae. Practical applications in waste management, environmental monitoring and agriculture will be considered. ACCA Cooperative College Botany Program with the Morton Arboretum. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 4 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 286 Biology of the Fungi. An introduction to the fungi; including classification, structure, ecology, and identification of the significant groups. ACCA Cooperative College Botany Program with the Morton Arboretum. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 4 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 287 Plant Ecology. Examination of the structure/function relationships of plants to environmental factors, interrelationships of plant communities, laboratory and field techniques, and appropriate literature. ACCA Cooperative College Botany Program with the Morton Arboretum. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 4 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 288 Medical Botany. Study of use of plants in medical practice and as sources of medicine. ACCA Cooperative College Botany Program with the Morton Arboretum. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 289 Plant/Animal Interactions. Studies the special ecological and evolutionary relationships between plants and animals (herbivory, pollination and seed dispersal). Includes natural history, experiments, theory and current research. ACCA Cooperative College Botany Program with the Morton Arboretum. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 4 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 290 Marine and Island Ecology of the Bahamas. Exploration of habitats and animals found on and around the Bahamian Islands. Includes a nine-day field experience in the Bahamas. Course offered ACCA Cooperative College Program at the Shedd Aquarium. Prerequisite: "C" or better in BIOL 197, BIOL 198, BIOL 199 or 299, CHEM 113, and CHEM 123. 4 semester credit hours. Typically offered: Spring Term. *Department Consent Required.*

BIOL 291 Selected Topics. Special topics in biology chosen for the interests or needs of students. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-4 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

BIOL 292 Biology Teaching. Opportunity for motivated students that have demonstrated excellent ability in theoretical aspects and practical techniques covered in prior laboratory coursework with experience to (1) assist in the teaching of an undergraduate laboratory science course, (2) grade assignments and tests, and (3) prepare reagents and equipment for laboratory use. Maximum of 2 credits allowed towards major. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1 semester credit hour. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

BIOL 295 Independent Study. Provides opportunity for advanced major to pursue study in a field of biological interest. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

BIOL 299 Quantitative Biology Laboratory for Transfer Students. Methods and techniques of biology laboratory investigation. Experimental design, data collection and statistical analysis, graphical representation of data, interpretation of results. Includes Biological Science Department orientation activities for transfer students. Credit may not be earned in BIOL 199 and BIOL 299 at Benedictine University. Required for transfer students majoring in the biological sciences. Prerequisite: Transfer credit for BIOL 197, BIOL 198, and BIOL 199. 1 semester credit hour. Typically offered: Fall and Spring Terms.

BIOL 300 Limnology. The study of the interrelations among the physical, chemical, and biological components of freshwater ecosystems. Includes taxonomy, adaptations, distributions, and abundance of aquatic organisms. Prerequisite: "C" or better in BIOL 229, CHEM 124 or CHEM 236. Cross listed ENV5 / BIOL 300. 3 semester credit hours. Typically offered: Periodically.

BIOL 301 Human Evolution. An in-depth look at the physical and behavioral evolution of humans. This course will focus primarily on the human fossil record from seven million years ago to the origin of Homo sapiens, with concentration on the functional anatomy of early humans. Prerequisite: "C" or better BIOL 201 or BIOL 203. 3 semester credit hours. Typically offered: Periodically.

BIOL 305 Environmental Toxicology. A study of the toxic effects of chemicals on human and ecological populations. Includes the physiological, genetic, and teratogenic effects of chemicals on humans and the study of biomagnification of chemicals through the food chain. Case studies and risk modeling using computers will be included to integrate theory and regulatory compliance. Prerequisite: "C" or better in BIOL 256 or BIOL 258. Cross listed with ENVS / BIOL 305. 3 semester credit hours. Typically offered: Periodically.

BIOL 310 Physiological Modeling. Students will develop simple models that can be implemented in an Excel spreadsheet and compared with experimental or clinical data when available. Topics covered include drug elimination; distribution of O₂, CO₂ and glucose; osmosis and homeostasis of erythrocytes; fluid dynamics and blood flow; kinetics of motors, carriers, and RNA; membrane transport and drug delivery; diffusion of neurotransmitters; ion channel permeation and gating; ion channels and the action potential. Intended for Biology and Health Science Majors. Prerequisites: "C" or better in BIOL 197, BIOL 198, CHEM 113, CHEM 123, and MATH 111. 3 semester credit hours. Typically offered: Spring Term.

BIOL 313 Evolution. A study of evolutionary processes, including Darwinian and non-Darwinian evolutionary theory, genetic mechanisms, social issues, and the role of natural selection in the formulation of species and higher categories. Emphasis is placed on the phylogeny of major animal groups. Prerequisite: "C" or better in BIOL 250. 3 semester credit hours. Typically offered: Fall Term.

BIOL 319 Histology. The microscopic anatomy of the tissues and organs of vertebrates. Lecture and lab. Prerequisite [Main Campus]: "C" or better in BIOL 258. Prerequisite [Springfield Campus]: BIOL 217. 4 semester credit hours. Typically offered: Periodically.

BIOL 321 Ornithology. The basic biology, evolution, behavior, identification and ecology of birds. Laboratory, museum and field study. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 4 semester credit hours. Typically offered: Periodically.

BIOL 322 Paleobiology. Using fossils to understand the evolutionary and ecological history of life. Topics such as mass extinctions, evolutionary diversifications, quantification of evolutionary rates, microevolution and speciation in the fossil record, evolutionary development, evolutionary transitions, fossilization, climate change, competition, functional morphology, conservation biology, and long-term trends in evolution and ecology are covered. Prerequisites: "C" or better in BIOL 204 or 229 or 275. 4 semester credit hours. Typically offered: Spring Term.

BIOL 323 Biophysics. This course provides a calculus based introduction to biophysics and physiological modeling. The course is an integrated lecture and computer lab experience that focuses on scientific modeling and hypothesis testing. Topics covered will be selected from experimental data analysis, drug elimination (pharmacokinetics) and single molecule biophysics. Poisson processes, ligand binding, enzyme kinetics and saturation, ion channel gating, motor proteins and dwell time distributions; molecular dynamics; transport diffusion and random walks; computational fluid dynamics; ion channel permeation and the action potential; osmosis, gastrointestinal and renal functioning; statistical thermodynamics and the second law; free energy transduction, passive transporters and active pumps; hemoglobin, oxygen transport and metabolism. Prerequisites: "C" or better in CHEM 113, CHEM 123, PHYS 212, and MATH 211 or 221. Cross listed as BIOL/CHEM/PHYS 323. 4 semester credit hours. Typically offered: Spring Term.

BIOL 325 Biology of Complex Systems. Survey of emergent and organizing principles in complex biological systems modeled as networks. Topics include genome and cellular interaction networks, anatomical networks such as brain and cardiovascular systems, social, linguistic, cultural, and technological networks, and ecological networks. Graph theory and computer software are used to visualize and analyze system properties. Prerequisite: "C" or better in BIOL 250. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 333 Plant Physiology. The study of plant functions at all levels - molecular, cellular, organismic and environmental. Prerequisite: "C" or better in BIOL 204 and CHEM 247. 3 semester credit hours. Typically offered: Periodically.

BIOL 340 Cell Biology. The study of life processes at the level of molecules, macromolecules, subcellular particles and organelles; integration of structure and function of living things on the suborganismic level. Prerequisite: "C" or better in BIOL 250 and CHEM 242. 3 semester credit hours. Typically offered: Fall and Spring Terms.

BIOL 341 Cell Molecular Biology Laboratory. Techniques in cell and molecular biology. Prerequisite: "C" or better in BIOL 109 or 199; Registration or credit in BIOL 340. 1 semester credit hour. Writing Intensive Course. Typically offered: Fall and Spring Terms.

BIOL 342 BMB Cell Biology Laboratory. Laboratory research problems in cell biology, including literature review, experimental design, data gathering, and evaluation of results. Students keep a laboratory journal, write a formal journal-style report about their research, and present their work orally in a research symposium. Third lab in a 3-semester lab sequence intended for the BMB major. Prerequisite: "C" or better in BIOL 340 and BCHM 362. Writing Intensive. 2 semester credit hours. Typically offered in Spring Term. *Department Consent Required.* 2 semester credit hours. Typically offered: Spring Term. *Department Consent Required.*

BIOL 344 Gross Dissection Anatomy. Dissection of the human cadaver. Prerequisite: "C" or better in BIOL 203 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 354 Immunology. Includes structural and functional components of the immune system, as well as types and control of immune response. Each semester. BIOL 208 or BIOL 340. Cross listed with CLSC 354. 3 semester credit hours.

BIOL 355 Cellular and Molecular Mechanisms of Human Disease I. Mechanisms of human disease that occur in the cardiovascular, lymphatic, pulmonary, renal and digestive systems. Prerequisite: "C" or better in BIOL 340 or BIOL 258. 3 semester credit hours. Typically offered: Periodically.

BIOL 356 Cellular and Molecular Mechanisms of Human Disease II. Mechanisms of human disease that occur in the neurological, endocrine, reproductive hematologic, musculoskeletal and integumentary systems. Prerequisite: "C" or better in BIOL 340 or BIOL 258. 3 semester credit hours. Typically offered: Periodically.

BIOL 358 Exercise Physiology. Provides an in-depth overview of how the body's physiological, hormonal and biochemical systems acutely and chronically respond to various forms of physical activity and environmental conditions in untrained and trained individuals. Prerequisite: "C" or better in BIOL 197, BIOL 198, BIOL 258, CHEM 101 or 113, and CHEM 103 or 123. Cross listed as BIOL 358 and EXPH 500. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

BIOL 359 Pathophysiology. Integrates the pathological processes of human disease with those of the normal functioning body. Cellular and organismal disease mechanisms are studied with reference to specific diseases, with opportunity to apply this learning to actual case studies. Prerequisite: "C" or better in BIOL 258 or 256, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 360 Endocrinology. A study of the structure and function of the endocrine system. Prerequisite: "C" or better in BIOL 258 and CHEM 123. 3 semester credit hours. Typically offered: Spring Term.

BIOL 363 Ecology. Study of the relationships of organisms to one another and to their environment. Includes evolutionary, behavioral, population, community, ecosystem, and applied ecology. Prerequisite: "C" or better in BIOL 205 or BIOL 250; MATH 200, 210, or 220. 3 semester credit hours. Typically offered: Fall and Spring Terms.

BIOL 364 Ecology Laboratory. A field and laboratory course designed to illustrate the principles of basic and applied ecology. Includes field trips, computer simulations, observational studies, and the design and implementation of ecological experiments. Prerequisite: "C" or better in BIOL 229, credit or co-registration in BIOL 363. 1 semester credit hour. Writing Intensive Course. Typically offered: Fall and Spring Terms.

BIOL 365 Molecular Pharmacology. A course introducing students to the molecular foundations of drug action with an emphasis on molecular structure-function relationships. Includes receptor-ligand interactions, agonists and antagonists, and signal transduction pathways. Prerequisite: "C" or better in CHEM 247 and BIOL 340 or BIOL 258. BCHM 261 is suggested. Fall. 3 semester credit hours. Typically offered: Fall Term.

BIOL 366 Medical Genetics. An advanced course in which the principles of genetics are applied and explored in clinical and other human settings. Problems in dysmorphology, inborn errors of metabolism, consanguinity, cancer etiology, pregnancy loss, prenatal diagnosis, gene therapy, genetic counseling and ethical issues are explored. Prerequisite: "C" or better in BIOL 250. 3 semester credit hours. Typically offered: Periodically.

BIOL 367 Human Embryology. Study of human development from gametogenesis through the neonatal period, including development after delivery. Topics include medical genetics, morphogenesis, normal and abnormal development processes and the role of environment in prenatal development. Prerequisite: "C" or better in BIOL 203 or BIOL 250. 3 semester credit hours. Typically offered: Periodically.

BIOL 368 Biomechanics. Principles from the fields of physics, engineering, anatomy and physiology are used to analyze motion of the human body and to describe the forces acting upon the various body segments during normal daily activities. Prerequisite: "C" or better in BIOL 197, BIOL 198, BIOL 203, CHEM 113, CHEM 123, and MATH 111. 3 semester credit hours. Typically offered: Spring Term.

BIOL 369 Neurobiology. Introduction to the nervous system including the human brain and its specialized functions. Topics covered include pathophysiology of the brain, how and why psychotic and other drugs affect the nervous system, and how and why memories are formed. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 370 Animal Behavior. A study of how and why animals act and react in their environment, with an emphasis on the evolutionary and ecological aspects. Topics covered include neural mechanisms of behavior, learning, game theory, foraging, communication, reproductive behavior and mating systems, and social behavior. Prerequisite: "C" or better in BIOL 250 and BIOL 256 or BIOL 258. 3 semester credit hours. Typically offered: Periodically.

BIOL 371 Molecular Biology. An advanced study of mechanisms controlling gene and genome organization, expression, regulation, and evolution. Includes viral, prokaryotic, and eukaryotic systems. Readings from the primary literature are used to integrate concepts and methods of data generation and analysis. Prerequisite: "C" or better in BIOL 340. 3 semester credit hours. Typically offered: Fall Term.

BIOL 372 Genomics and Bioinformatics. A survey of the fields of genomics, proteomics, and metabolomics with an emphasis on using bioinformatics resources and understanding the computational and mathematical basis behind many of the tools used for data mining and analysis. Prerequisite: "C" or better in BIOL 340 and MATH 224 or MATH 211. 2 semester credit hours. Typically offered: Spring Term.

BIOL 373 Tropical Ecology. A course on the composition and change in contemporary and historical tropical forests. Includes surveys of plants and animals and their interactions, and ecological concepts controlling biodiversity. Depending on the year, either Spring term on-campus lectures with local weekend field trip(s), or Summer term longer trip to site in Costa Rica. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 3 semester credit hours. Typically offered: Periodically.

BIOL 374 Research Techniques in Molecular Biology. A laboratory course designed to acquaint the student with research methodologies and instrumentation in molecular biology. Prerequisite: "C" or better in BIOL 341. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

BIOL 375 Research Techniques in Field Ecology. A hands-on field experience designed to acquaint students with research methodologies in ecology. Project required. Prerequisite: "C" or better BIOL 363 and BIOL 364. 1-2 semester credit hours. Typically offered: Periodically.

BIOL 380 Advanced Topics in Biology. A comprehensive study of some selected topic or area in a particular field of biology. Topics will be announced. Prerequisite: "C" or better in BIOL 197, BIOL 198, CHEM 113, and CHEM 123; Senior Standing. 1-2 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 2.*

BIOL 389 Biological Research. Research projects that require extensive use of laboratory or museum facilities. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

BIOL 391 Selected Topics. Special courses on various topics with which the student has not become acquainted in formal course work. May be an extension of or a supplement to material previously encountered, or lectures from a completely new area. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-4 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

BIOL 393 Great Ideas in Biology and Medicine. A study in the original writings of some of the great biologists and medical scientists to understand their thoughts and work and the historical development of the scientific method in biology. Capstone course for HLSC majors on the Main Campus. Prerequisites: "C" or better in BIOL 197, BIOL 198, CHEM 113, and CHEM 123; 75+ credit hours standing. 1 semester credit hour. Writing Intensive Course. Typically offered: Fall and Spring Terms.

BIOL 394 Nature Writing. This course will introduce the literary genre of Nature Writing and explore its ongoing relationship with science. This interdisciplinary course will explore the nature writing of the past and other cultures, as well as trends leading to its future. May be taken as the capstone course for HLSC majors. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1 semester credit hour. Writing Intensive Course. Typically offered: Annually.

BIOL 395 Independent Study. Provides opportunity for advanced major to pursue study in a field of biological interest. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

BIOL 397 Biology Internship. Practical experiences in the life sciences under the supervision of the biology faculty. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

Business Analytics

BALT 220 Introduction to SAS for Data Analysis. This course will provide an introduction to the SAS programming language. SAS is a 4th generation language that is used in many fields including marketing and finance to analyze data. The language is easy to learn and increases one's analytical capabilities and productivity. 1 semester credit hour. 1 semester credit hour. Typically offered: Spring Term.

BALT 301 Managerial Decision-making Under Uncertainty. This course introduces students to the art and science of decision-making under constraints such as limited data, uncertainty, and competing objectives. The course provides students with hands on experience using problem-solving techniques. Students will be introduced to simulation modeling, optimization techniques, and decision trees. 3 semester credit hours. Prerequisite: MGT 150. 3 semester credit hours. Typically offered: Fall Term.

BALT 310 Visualization Techniques and Dashboarding. There is a proliferation of data within organizations that can be used to reduce expenses and increase profits i.e. gain a competitive edge. Attempting to gain insight into the numbers through text is ineffective. Visualization techniques provide an opportunity to spot trends and patterns. This course focuses on using visualization techniques to develop business insights and dashboards to effectively convey those insights to a non-technical audience. 3 semester credit hours. 3 semester credit hours. Typically offered: Fall Term.

BALT 320 Data and Text Mining. Knowledge discovery and business analytics are core tools used by organizations to direct business decisions, improve strategies, reduce risk and create new business opportunities. This course focuses on algorithm techniques that can be used for knowledge discovery such as classification, association rule mining, clustering, and heuristics. Successful applications of this methodology have been reported in areas such as credit rating, fraud detection, database marketing, customer relationship management, and stock market investments. This course will cover data mining for business intelligence and will cover applications to both data and text. The focus is on several techniques that aim at discovering patterns that can bring value or "business intelligence" to organizations. Examples of such patterns include fraud detection, consumer behavior, and credit approval. The course will cover the most important data mining techniques including: classification, clustering, association rule mining, prediction – through a hands-on approach using SAS Data and Text Miner. 3 semester credit hours. 3 semester credit hours. Typically offered: Fall Term.

BALT 330 Database Structures and Queries. In this course, students will be introduced to the basic concepts of databases. The course stresses the storage, retrieval and manipulation of data using SQL and SAS. Computer software techniques used in business with emphasis on information management and database management systems. Data management and analysis. Major types of database management systems, query languages.

Content:

- (a) Introduction to the SAS programming language and SQL
- (b) Overview of data warehouse structure and access
- (c) Data retrieval for analysis

3 semester credit hours 3 semester credit hours. Typically offered: Fall Term.

BALT 340 Web Intelligence and Analytics. This course will focus on developing an understanding of web analytics and web intelligence. Students will learn how to: leverage Web site effectiveness and marketing; measure, identify, and interpret key Web metrics and KPIs. Additionally, students will gain an understanding of main data collection techniques, their impact on metrics, and their limitations. Insight into the potential of data mining and predictive analytics in the context of the Web will be explored as well as web spiders, web bots and social listening software. 3 semester credit hours. Prerequisite: BALT 320. 3 semester credit hours. Typically offered: Periodically.

BALT 350 Business Process Management. This course introduces the latest advances in business process technologies and management such as business process planning, business process requirements analysis, business process modeling, workflow system design and implementation. The course will emphasize a hands-on approach. 3 semester credit hours 3 semester credit hours. Typically offered: Spring Term.

BALT 360 Social Influence Networks. Social computing is a term used to describe the intersection of human social behavior and technology systems. This course will introduce students to the concepts of social networks from the viewpoint of economists, sociologists, psychologists and technologists. The focus of the course will be on viewing social groups as networks and decision-making as a form of game theory. Real world applications such as online auctions and prediction markets will be explored. 3 semester credit hours 3 semester credit hours. Typically offered: Periodically.

BALT 380 Business Analytics Capstone. Students will be asked to design and build an innovative research project for presentation at the end of the semester. Students should organize themselves into research project teams and develop their research project. A final written report will be submitted. 3 semester credit hours. 3 semester credit hours. Typically offered: Periodically.

Business with Science Applications

BSCI 200 Introduction to Science Management. Introduction to Science Management course objectives are: to provide an overview of science management functional areas and how they work in science based industries; to introduce managers from various industries to compare/contrast functional expectations in the context of contemporary industry practices, including: overview of

science management and industry; comparison and contrasts between scientific research (to discover knowledge) and business research (to produce value); introduction to finance in scientific companies (discovering valuable solutions and protecting that value in the competitive marketplace); comparing/contrasting the scientific with business research and development cycle; comparing/contrasting the role of the general business manager with other scientific related managers, including: scientific research project manager; development manager; start up CEO, human resources manager; accounting manager; production manager, health and safety manager; marketing manager; regulatory manager; business development manager, purchasing/supply chain manager. 3 semester credit hours. Typically offered: Annually. *Department Consent Required.*

BSCI 210 Science Management: Legal Aspects. Introduces students to at least four different applications of legal and regulatory requirements in scientific industries, including: introduction to intellectual property, patents, corporate intellectual property strategy, and negotiation approaches to corporate intellectual property strategy. 3 semester credit hours. Typically offered: Annually. *Department Consent Required.*

BSCI 220 Science Management: Innovation and Product Development. Innovation and Product Development provides an introduction to the critical skills for effective product development through teams, in the context of the highly professionalized nature of scientific industries. 3 semester credit hours. Typically offered: Annually. *Department Consent Required.*

BSCI 230 Science Management: Ethical and Quality Systems. Ethical and Quality Systems provides an introduction to the fundamental requirements for ethical practice and quality in high technology organizations, from both the personal and organizational perspectives. Included is a study of individual moral and value perspectives as the basis for ethical decision-making in the context of quality control systems in high technology businesses. Also included is material on corporate social responsibility and sustainability practices reinforced with recent business case analysis. Examples of unsustainable global energy usage as well as alternative, sustainable energy technologies are presented. Main lecture topics are effective character attributes; leading ethical paradigms as they pertain to corporate quality processes, identification of primary quality management tools such as Total Quality Management and Lean Six Sigma; characterization of high performance companies, and structuring high technology companies for optimum performance. 3 semester credit hours. Typically offered: Annually. *Department Consent Required.*

BSCI 297 Internship. BSCI 297 Internship provides an internship in a regional scientific organizational setting, to apply and develop program concepts and skills. 1-3 semester credit hours. Typically offered: Spring and Summer Terms. *Department Consent Required.*

BSCI 380 Capstone. Capstone provides each student a comprehensive research project and team based presentation, with professional external review and feedback on the student's business, scientific and communication skills. Senior standing. 3 semester credit hours. Typically offered: Spring Term. *Department Consent Required.*

Chemistry

CHEM 101 Introduction to Chemistry. The fundamental principles of chemistry with an introduction to inorganic chemistry; including acids, bases, gases, and solutions. Intended for nursing and allied health majors. IAI P1 902. 3 semester credit hours. Physical Science Core Elective. Typically offered: Fall Term.

CHEM 102 Introduction to Chemistry Laboratory. Experiments that explore the principles discussed in CHEM 101. IAI P1 902L. Prerequisite: Registration or credit in CHEM 101. 1 semester credit hour. Physical Science Core Elective. Typically offered: Fall Term.

CHEM 103 Introduction to Organic Chemistry and Biochemistry. The structure, nomenclature, and reactions of organic compounds and a brief introduction to biochemistry. IAI P1 904. Prerequisite: CHEM 101 or CHEM 123. 3 semester credit hours. Physical Science Core Elective. Typically offered: Spring Term.

CHEM 104 Introduction to Organic Chemistry and Biochemistry Laboratory. Experiments examine the applications of organic and biochemical theory. IAI P1 904L. Prerequisite: Registration or Credit in CHEM 103. 1 semester credit hour. Physical Science Core Elective. Typically offered: Spring Term.

CHEM 107 Chemistry: An Experimental Science. Lecture and laboratory component. Develop chemical principles, such as acid-base, kinetics, thermodynamics, and periodicity through observation, demonstration, and experimentation. Designed for education, humanities, and social science majors. 3 semester credit hours. Physical Science Core Elective. Typically offered: Periodically.

CHEM 113 General Chemistry I. Principles of stoichiometry, aqueous reactions, thermochemistry, gas laws, electronic structure and bonding, periodicity, phase-related properties and functional groups. IAI P1 902; BIO 906; EGR 961; CHM 911; CLS 906. Prerequisite: "C" or better in MATH 110 or placement into MATH 111 or better and one year of high school chemistry or CHEM 101. 3 semester credit hours. Physical Science Core Elective. Typically offered: Fall, Spring and Summer Terms.

CHEM 114 General Chemistry I Laboratory. Separations, quantitative measurements and transfers, and spectrochemical techniques involving organic and inorganic systems. IAI P1 902L; BIO 906; EGR 961; CHM 911; CLS 906. Prerequisite: Registration or credit in CHEM 113. 1 semester credit hour. Physical Science Core Elective. Typically offered: Fall, Spring and Summer Terms.

CHEM 115 General Chemistry I Laboratory. Intended for chemistry majors or students interested in chemistry or biochemistry. The study and application of laboratory techniques and methods of chemical/biochemical analysis that includes a variety of chromatographic and spectroscopic methods, titrimetry, and sample preparation, data acquisition and statistical analysis, molecular modeling, laboratory safety, and scientific ethics. IAI CHM 911. Prerequisite: Credit or co-registration in CHEM 113. 1 semester credit hour. Typically offered: Fall Term. *Department Consent Required.*

CHEM 123 General Chemistry II. Principles of intermolecular forces, kinetics, chemical equilibrium, acid/base chemistry, electrochemistry, and nuclear chemistry. IAI BIO 907; CHM 912; CLS 907; EGR 962. Prerequisite: "C" or better in CHEM 113. 3 semester credit hours. Physical Science Core Elective. Typically offered: Spring and Summer Terms.

CHEM 124 General Chemistry II Laboratory. Titrimetry, solubility, synthesis, qualitative analysis, and instrumentation for pH, kinetics, and electrochemical processes. IAI BIO 907; CHM 912; CLS 907; EGR 962. Prerequisite: "C" or better in CHEM 114 or CHEM 115 or NTSC 151 and coregistration or credit in CHEM 123. 1 semester credit hour. Physical Science Core Elective. Typically offered: Spring and Summer Terms.

CHEM 125 General Chemistry II Laboratory. Completion of the topics listed for CHEM 115 and pH, electrochemistry, equilibrium, and inorganic synthesis. IAI CHM 912. Prerequisite: CHEM 115 and credit or coregistration in CHEM 123. 1 semester credit hour. Physical Science Core Elective. Typically offered: Spring Term. *Department Consent Required.*

CHEM 190 Selected Topics in Chemistry. Current topics in chemistry. 1 semester credit hour. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

CHEM 231 Analytical Chemistry I. Statistical analysis of data, and the theory and applications of instrumental analysis including spectroscopy, chemical separation, and mass spectrometry. Prerequisite: "C" or better in CHEM 123 and CHEM 124 or CHEM 125 or NTSC 152. 3 semester credit hours. Typically offered: Fall Term.

CHEM 232 Analytical Chemistry II. Sampling and the theory and applications of gravimetric, titrimetric, electrochemical, thermal, automated and computer assisted methods of analysis. Prerequisite: "C" or better in CHEM 231. 3 semester credit hours. Typically offered: Spring Term.

CHEM 237 Analytical Chemistry I Laboratory. Optimization, operation, and applications of selected instrumental methods discussed in CHEM 231. Prerequisite: Credit or co-registration in CHEM 231, "C" or better in CHEM 124 or 125 or NTSC 152. 1 semester credit hour. Typically offered: Fall Term.

CHEM 238 Analytical Chemistry II Lab. Preparation of buffers and standardization of acid/base solutions. Quantitative analysis methods including gravimetry, titrations, potentiometry, voltammetry and amperometry that are discussed in CHEM 232. Prerequisite: Credit or co registration in CHEM 232, "C" or better in CHEM 237. 1 semester credit hour. Typically offered: Spring Term.

CHEM 242 Organic Chemistry I. Introduction to cyclic and acyclic molecules, with an emphasis on organic acids and bases, reaction mechanisms and stereochemistry. Intended for physical and biological science students. IAI BIO 908; CHM 913; EGR 963. Prerequisite: "C" or better in CHEM 123. 3 semester credit hours. Typically offered: Fall and Summer Terms.

CHEM 243 Organic Chemistry I Laboratory. Introduction to organic and biochemical laboratory techniques, separations, purifications and analysis. For non-chemistry majors. IAI BIO 908; CHM 913; EGR 963. Prerequisite: "C" or better in CHEM 124 or CHEM 125 or NTSC 152 and credit or coregistration in CHEM 242. 1 semester credit hour. Typically offered: Fall and Summer Terms.

CHEM 244 Organic Chemistry I Laboratory. Introduction to organic and biochemical laboratory techniques, separations and purifications, with an emphasis on chemical instrumentation. Intended for chemistry and biochemistry/molecular biology majors. IAI CHM 913. Prerequisite: "C" or better in CHEM 124 or 125 or NTSC 152, Credit or coregistration in CHEM 242. 1 semester credit hour. Typically offered: Fall Term. *Department Consent Required.*

CHEM 247 Organic Chemistry II. Organic synthesis. A study of the preparations and reactions of aliphatic and aromatic organic compounds and their inter-conversions. IAI BIO 909; CHM 914; EGR 964. Prerequisite: "C" or better in CHEM 242. 3 semester credit hours. Typically offered: Spring and Summer Terms.

CHEM 248 Organic Chemistry II Laboratory. The synthesis, isolation and identification of organic compounds. For non-chemistry majors. IAI BIO 909; CHM 914; EGR 964. Prerequisite: "C" or better in CHEM 243 and credit or coregistration in CHEM 247. 1 semester credit hour. Typically offered: Spring and Summer Terms.

CHEM 249 Organic Chemistry II Laboratory. The synthesis, isolation and identification of organic compounds with an emphasis on spectroscopic analysis. For chemistry and biochemistry/molecular biology majors. IAI CHM 914. Prerequisite: "C" or better in CHEM 244 and credit or coregistration in CHEM 247. 1 semester credit hour. Typically offered: Spring Term. *Department Consent Required.*

CHEM 290 Selected Topics in Chemistry. Current topics in chemistry. Prerequisite [Springfield Campus]: Division consent. 1-3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

CHEM 292 Research Literature. Discussion and application of online sources containing scientific publications and other information, e.g., SciFinder. The introduction of a report for a research project will be completed. 1 semester credit hour. Typically offered: Spring Term.

CHEM 295 Chemistry Teaching. Opportunity for a student to work as a teaching assistant in the chemistry department. 1-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

CHEM 313 Classical Thermodynamics. Properties of gases, relating heat and work, concepts of enthalpy and entropy, heat engines, mixtures, and phase changes. Prerequisite: "C" or better in CHEM 123, PHYS 212, and MATH 212. Cross listed as CHEM/PHYS 313. 3 semester credit hours. Typically offered: Fall Term.

CHEM 314 Physical Chemistry I Laboratory. Applies principles discussed in CHEM/PHYS 313. Prerequisite: Coregistration or credit in CHEM/PHYS 313. Cross listed as CHEM/PHYS 314. 1 semester credit hour. Writing Intensive Course. Typically offered: Fall Term.

CHEM 315 Quantum and Statistical Mechanics. Failures of classical physics, development of quantum theory, atomic structure and spectra, statistical mechanics, and statistical thermodynamics. Prerequisites: "C" or better in CHEM/PHYS 313 and coregistration or credit in MATH 260 or 300. Cross listed as CHEM/PHYS 315. 3 semester credit hours. Typically offered: Spring Term.

CHEM 316 Physical Chemistry II Laboratory. Applies principles discussed in CHEM/PHYS 315. Prerequisite: Credit or coregistration in CHEM/PHYS 315. Cross listed as CHEM/PHYS 316. 1 semester credit hour. Writing Intensive Course. Typically offered: Spring Term.

CHEM 320 Inorganic Chemistry. Principles of structure and bonding, coordination chemistry, organometallic chemistry, and descriptive chemistry. Prerequisite: "C" or better in CHEM 232 and 247. 3 semester credit hours. Typically offered: Fall Term.

CHEM 321 Inorganic Synthesis Laboratory. Applications of the topics discussed in CHEM 320 including vacuum-line manipulation, inert atmosphere techniques, spectroscopy, and separation methods. Prerequisite: "C" or better in CHEM 320. 1 semester credit hour. Writing Intensive Course. Typically offered: Spring Term. *Department Consent Required.*

CHEM 322 Bioinorganic Chemistry. Selected lecture topics include transition metals in biological systems, metals in photosynthesis, metal homeostasis, inorganic compounds in medicine, spectroscopy, and biological coordination compounds. Prerequisite: "C" or better in CHEM 232 and CHEM 247. 3 semester credit hours. Typically offered: Periodically.

CHEM 323 Biophysics. This course provides a calculus based introduction to biophysics and physiological modeling. The course is an integrated lecture and computer lab experience that focuses on scientific modeling and hypothesis testing. Topics covered will be selected from experimental data analysis, drug elimination (pharmacokinetics) and single molecule biophysics. Poisson processes, ligand binding, enzyme kinetics and saturation, ion channel gating, motor proteins and dwell time distributions; molecular dynamics; transport diffusion and random walks; computational fluid dynamics; ion channel permeation and the action potential; osmosis, gastrointestinal and renal functioning; statistical thermodynamics and the second law; free energy transduction, passive transporters and active pumps; hemoglobin, oxygen transport and metabolism. Prerequisites: "C" or better in CHEM 113, CHEM 123, PHYS 212, and MATH 211 or 221. Cross listed as BIOL/CHEM/PHYS 323. 4 semester credit hours. Typically offered: Spring Term.

CHEM 325 Materials Science. This course will explore many of the synthetic (high-temperature, solvothermal solution and flux crystal growth) and characterization (X-ray diffraction, Atomic Absorption) techniques common to solid-state/materials chemistry. Lecture and laboratory will be tightly integrated in a studio-style format. Individual, independent research projects aimed at the synthesis of novel inorganic materials will take the place of traditional experiments. On-site powder X-ray diffraction instrumentation will allow for immediate characterization of synthetic products. 3 semester credit hours. Typically offered: Summer Term. *Department Consent Required.*

CHEM 334 Bioanalytical Chemistry and Chemical Sensors. Selected lecture topics in spectroscopy, separations, and electrochemistry of biological macromolecules; immunoassays, enzymatic assays, nanomaterials, microfluidic systems and development and optimization of biological/chemical sensors. CHEM 231 and 247. Prerequisite: "C" or better in CHEM 231 and 247. 3 semester credit hours. Typically offered: Periodically.

CHEM 335 Advanced Chemical and Instrumental Analysis. Selected topics in spectroscopy, separations, ionic equilibria, electrochemistry, statistical analysis, and computer-aided instrument control, data acquisition and processing. Prerequisite: "C" or better in CHEM 232 and 247. 3 semester credit hours. Typically offered: Periodically.

CHEM 340 Advanced Organic Chemistry. Selected topics in synthetic organic chemistry, emphasizing current reaction methodologies, catalysis and asymmetric transformations. Prerequisite: "C" or better in CHEM 231, 237 and 247. 3 semester credit hours. Typically offered: Periodically.

CHEM 357 Molecular Dynamics and Kinetics. Electronic properties of molecules, molecular interactions, molecular motion, chemical kinetics, molecular reaction dynamics. Prerequisite: Credit or co-registration: CHEM/PHYS 315. Cross listed with CHEM/PHYS 357. 3 semester credit hours. Typically offered: Periodically.

CHEM 390 Selected Topics in Chemistry. Current advanced topics in Chemistry. 1-3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

CHEM 393 Chemical Internship. Practical experiences in chemistry under the supervision of the chemistry program. 1-6 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 6.*

CHEM 398 Chemical Research. Original experimental research conducted under the supervision of a faculty or adjunct faculty member. Projects may be conducted on campus or at an affiliated research facility. Publication and public presentation of the research are course objectives. 1-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

CHEM 399 Research Capstone. This course is intended for final semester seniors finishing their research experience, where students will focus on writing a research thesis and engaging in a public presentation. 1 semester credit hour. Typically offered: Fall and Spring Terms. *Department Consent Required.*

Chinese

CHIN 101 Elementary Mandarin I. Introduction to the basic structures of the language. Designed to enable the student to develop oral proficiency and written skills. 3 semester credit hours. Typically offered: Fall Term.

CHIN 102 Elementary Mandarin II. Introduction to the basic structures of the language. Designed to enable the student to develop oral proficiency and written skills. Prerequisite: CHIN 101 or placement. 3 semester credit hours. Typically offered: Spring Term.

CHIN 191 Conversation and Culture. This course provides an introduction to and highlights of Chinese culture and basic language skills. 1 semester credit hour. Typically offered: Spring Term.

CHIN 201 Intermediate Mandarin I. Review of the basic structure of the language. Emphasis on extensive language practice in simulated cultural settings, which will enable students to continue to develop their oral and written proficiency. Prerequisite: CHIN 102 or placement. 3 semester credit hours. Typically offered: Fall Term.

CHIN 202 Intermediate Mandarin II. This course is the second semester of intermediate-level (second year) study of the four skills (reading, writing, speaking, and listening). Prerequisite: CHIN 201 or placement by Department. 3 semester credit hours.

CHIN 211 Intermediate Grammar and Composition. Comprehensive review and synthesis of Chinese (Mandarin) grammar and writing practice. Prerequisite: CHIN 202 or placement by department. 3 semester credit hours. Typically offered: Periodically.

CHIN 291 Topics. Selected topics. 1-3 semester credit hours.

Clinical Laboratory Sciences

CLSC 354 Immunology. Includes structural and functional components of the immune system, as well as types and control of immune response. Prerequisite [Main Campus]: "C" or better in BIOL 208 or BIOL 340. Prerequisite [Springfield Campus]: BIOL 208 or BIOL 343. 3 semester credit hours. Typically offered: Spring Term.

CLSC 390 Hematology. Study of blood and bone marrow cells including the enumeration, identification, and classification of these cells. Comparison of normal structure and function versus the abnormal and malignant states in platelet, red cell, and white cells series. Includes lab. 5 semester credit hours. *Department Consent Required.*

CLSC 391 Clinical Microbiology. The various techniques, including Molecular Biology methodologies, involved in identification of normal human flora, the study and isolation techniques of aerobic and anaerobic pathogens, mycobacteria and viruses, and their relationship to disease. Includes lab. 6 semester credit hours. *Department Consent Required.*

CLSC 392 Clinical Biochemistry. The application of the principles of medical biochemistry and physiology related to the methodology and evaluation of clinical chemistry procedures. The correlation of chemistry data to disease manifestations. Includes lab. 8 semester credit hours. *Department Consent Required.*

CLSC 393 Immunoserology. Study of the principles and procedures involved in the humoral-and cell-mediated reaction in normal and abnormal states; including deficiency states, infectious states, autoimmune disease and transplantation. Includes lab. 3 semester credit hours. *Department Consent Required.*

CLSC 394 Immunoematology. Study of the many human blood antigens and antibodies, their identification by various standard techniques, cross-matching for transfusions and component therapy. Procurement and preparation of blood products and dispensing. Includes lab. 4 semester credit hours. *Department Consent Required.*

CLSC 395 Clinical Microscopy/Urinalysis. Study of principles and procedures of qualitative and quantitative urinalysis as related to renal function in health and disease. Examination of urine and other body fluids to correlate laboratory data to disease manifestations. Includes lab. 2 semester credit hours. *Department Consent Required.*

CLSC 396 Coagulation. Study of the coagulation mechanisms found in the normal and disease states, coagulation testing procedures, and their use in diagnosing bleeding disorders and hypercoagulable states. Includes lab. 2 semester credit hours. *Department Consent Required.*

CLSC 397 Special Topics. Designed to broaden the background of the medical technology students. 2 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 4.*

Communications

COMM 150 Introduction to Media Studies and Mass Persuasion. A writing and speaking-intensive introduction to communication arts theory and research, with an emphasis on analyzing mass media messages and understanding their underlying cultural and historical contexts. 3 semester credit hours. Writing Intensive Course. 3 semester credit hours. Writing Intensive Course.

COMM 207 Editing for Publications. Introduction to the principles and practices of editing for books, magazines, and newspapers. Prerequisite: WRIT 102 or 103 or HNRS 190. 3 semester credit hours. 3 semester credit hours.

COMM 208 Layout and Design for Publication. Graphic design principles and professional processes are emphasized. Print projects may include organizational identity, response, advertising, newsletter, book/magazine, and other projects, using InDesign. Online design principles are introduced to enable design of a simple website. 3 semester credit hours. 3 semester credit hours.

COMM 209 Newswriting and Reporting. Principles and practice in gathering and writing news as well as preparing copy for publication. IAI MC 919. Prerequisite: WRIT 101. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall Term. 3 semester credit hours. Writing Intensive Course.

COMM 235 Photojournalism. Teaches the skills in creating and evaluating images for photojournalism purposes. 3 semester credit hours. 3 semester credit hours.

COMM 250 Masters of the American Cinema. A historical study of representative fiction film makers from D.W. Griffith to Spike Lee. IAI F2 908. 3 semester credit hours. Communications Core Elective. 3 semester credit hours. Communications Core Elective.

COMM 251 History of Film. A cross-cultural study of the development of the cinema from its late 19th century origins to the present. IAI F2 909. 3 semester credit hours. Communications Core Elective. 3 semester credit hours. Communications Core Elective.

COMM 252 Technical Writing. A practical course designed to train students for various fields that require technical writing skills - engineering, computer science, industry, etc. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

COMM 253 Public Relations Writing. Focuses on writing for print media. Students prepare news releases, newsletters and feature stories. Prerequisite: WRIT 102 or 103 or HNRS 190 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

COMM 254 Writing for the Electronic Media. A practical course designed to expose students to the various approaches, forms and techniques of writing for the electronic media. IAI MC 917. Prerequisite: WRIT 102 or 103 or HNRS 190. 3 semester credit hours. 3 semester credit hours. Typically offered: Spring Term.

COMM 255 Television Production. Laboratory course introducing students to the technical and aesthetic principles utilized in preparing programming for television. IAI MC 916. Fee: \$45. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

COMM 256 International Film. A study of the film form as seen in the most important films produced outside the United States. 3 semester credit hours. Communications Core Elective. Typically offered: Periodically. 3 semester credit hours. Communications Core Elective. Typically offered: Periodically.

COMM 263 Advertising Copywriting. Covers the fundamentals of writing copy and designing advertising for all forms of print and electronic media. Prerequisite: WRIT 101. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Spring Term.

COMM 264 Sports Journalism. This course is designed for students to adapt skills learned in COMM 209 toward a variety of sports environments and applications. The students will write press releases and do hard news reporting, and be informed of the inner workings of the sports communication environment. 3 semester credit hours. 3 semester credit hours. Typically offered: Periodically.

COMM 265 Sports Broadcasting. Students will apply basic skills learned in COMM 254/255 to a variety of video and multimedia applications. Emphasis will be on writing effective sports stories, conducting professional-looking standups, and covering the sports beats on campus. Students will also produce a half-hour sports cable show. 3 semester credit hours. 3 semester credit hours. Typically offered: Periodically.

COMM 291 Topics. Study of aspects of communication on the intermediate level not listed as regular course offerings. Prerequisite: WRIT 102 3 semester credit hours. Course Repeatable. Maximum number of units allowed 99. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

COMM 295 Independent Study. Designed for the student who wishes to explore aspects of communications not normally offered in the regular curriculum. 1-3 semester credit hours. Department Consent Required. Course Repeatable. Maximum number of units allowed 99. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

COMM 297 Internship. Practical experience in public relations, electronic media, journalism, advertising or multimedia supervised by the Communication Arts department. Up to three internship hours may be applied toward the 39 hour major requirement. Up to 12 hours may apply toward the 120 hours for graduation. Prerequisite: Consent of internship coordinator, and at least 3.0 GPA 2-6 semester credit hours. Department Consent Required. Course Repeatable. Maximum number of units allowed 12. 2-6 semester credit hours. Typically offered: Annually. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

COMM 301 Research Practicum. Students conduct original research and present their findings at a student conference. Prerequisite: completion of one COMM theory course at the 300 level with a grade of B or above and consent of the Instructor. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

COMM 302 Arts Practicum. Students create original communication arts works to present at student exhibitions. Prerequisite: completion of one COMM Arts applied course at the 300 level and consent of the Instructor. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

COMM 309 Global Journalism. Students will gain the skills needed to cover news stories in a foreign country along with the ability to analyze global media content. 3 semester credit hours. Typically offered: Spring Term. Department Consent Required. 3 semester credit hours. Typically offered: Spring Term. *Department Consent Required.*

COMM 316 Advanced Television Production. Emphasis on development of directing and post-production skills, with focus on aesthetic and technical principles. Prerequisite: COMM 254 and COMM 255. 3 semester credit hours. Communications Core Elective. Typically offered: Spring Term. 3 semester credit hours. Communications Core Elective. Typically offered: Spring Term.

COMM 317 Mass Media Law and Ethics. Examines the many legal and ethical issues related to the mass media. Prerequisite: WRIT 102 or HNRS 191. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Spring Term.

COMM 335 Photojournalism. Teaches the skills in creating and evaluating images for photojournalism purposes. 3 semester credit hours. Typically offered: Periodically.

COMM 337 Advanced Journalism Writing. Students practice the major styles of journalistic writing beyond newswriting: public affairs reporting, feature writing, magazine writing and editorial writing. Prerequisite: COMM 209. 3 semester credit hours. Writing Intensive Course. Typically offered: Periodically. 3 semester credit hours. Writing Intensive Course. Typically offered: Periodically.

COMM 353 Advanced Seminar in Writing, Editing, and Page Design for Publications. In this seminar, students work on a major publications project, engage in critical reading of media content, discuss writing, editing and page design strategies, have drafts of their work critiqued in class, and develop a professional portfolio of the work. Prerequisite: COMM 150, COMM 207, COMM 208, and COMM 209. 3 semester credit hours. Writing Intensive Course. Typically offered: Periodically. Department Consent Required. 3 semester credit hours. Writing Intensive Course. Typically offered: Periodically. *Department Consent Required.*

COMM 381 Multimedia Production for the Web. Students experiment with a variety of web-based materials utilizing applications from text and visual media. Prerequisite: COMM 208, WRIT 102. 3 semester credit hours. Typically offered: Periodically. Department Consent Required. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

COMM 382 Nonlinear Editing for Audio and Video. Students learn and apply advanced computer editing skills in audio and video to produce a variety of video projects. Prerequisite: COMM 255. 3 semester credit hours. 3 semester credit hours.

COMM 385 Television and Society. An in-depth investigation of the television industry and its impact on American and world culture. Prerequisite: WRIT 102. 3 semester credit hours. Typically offered: Periodically.

COMM 386 Media and Government. Examines major theoretical models of a central problem in mass communications from historical and cross-cultural perspectives. Prerequisite: WRIT 102. 3 semester credit hours. Typically offered: Periodically.

COMM 388 Studies in Film Theory and Criticism. Selected topics in film theory and criticism. 3 semester credit hours. Communications Core Elective. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 9.*

COMM 390 Images of Men and Women in Advertising. A critical investigation of how we are influenced in the way we think about gender and gender relationships. Prerequisite: WRIT 102. 3 semester credit hours. Typically offered: Periodically.

COMM 391 Topics. Study of aspects of communications on the advanced level not covered in the above course offerings. Prerequisite: COMM 207, COMM 208, WRIT 102. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

COMM 392 Senior Project. Advanced applications in a focused area of communications beyond other upper level courses. Senior Project does not count towards the 39 hours required for a degree in communication arts. Prerequisite: Senior standing, completion of or concurrent enrollment in

communications courses totaling 39 hours, and approval of proposal prior to semester in which the student is enrolled. 3 semester credit hours. *Department Consent Required.*

COMM 393 Senior Portfolio. Required of all Communication Arts majors, this course is designed to help the student improve the appearance, content, and organization of their Senior Portfolio. Prerequisite: Senior Standing 3 semester credit hours.

COMM 395 Independent Study. Designed for the superior student who wishes to explore an aspect of communication beyond the scope of undergraduate course offerings through guided independent study. Prerequisite: COMM 207 and GPA of 3.5 in major. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

Computer Information Systems

CIS 127 Information Technology in Management. This course is designed to provide students with an awareness of the changing nature of technology and the related management issues. It will demonstrate solutions to business problems from a management, technical and organizational perspective. Finally, it will provide familiarity with the language of technologists to ease the communication gap between business and technology. The technology covered in the class will include hardware, software, communications, database, emerging technologies, internet and intranets. Prerequisite: Acceptance into Adult Learning Team or Online Program. 3 semester credit hours.

CIS 174 Web-Based Applications Development. An introduction to creating web applications. Topics include web-page authoring, markup languages, scripting languages, active server pages, multimedia applications, and client/server systems. Not for major credit. Periodically. 3 semester credit hours. Typically offered: Fall Term.

CIS 180 Introduction to Computing. An introduction to the fundamental principles of computing and the computers relevance and impact on the world today with an overriding theme of algorithms. Topics include hardware, software, data representation, networks, and databases with applications in simulation, modeling, electronic commerce and artificial intelligence. 2 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall and Spring Terms.

CIS 181 Visual Programming Laboratory. Provides programming fundamentals, with applications developed in a visual programming language. Programming topics include variables, formatted output, looping, conditional execution, subroutines, functions. Prerequisite: Coregistration or credit in CIS/CMSC 180. 2 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall and Spring Terms.

CIS 182 Science Applications Laboratory. A laboratory experience for all students interested in analyzing, processing, graphing, displaying, and presenting scientific data through the use of spreadsheet software (Microsoft Excel). Coregistration or credit in CIS /CMSC 180. 1 semester credit hour. Mathematics and Computer Science Core Elective. Typically offered: Fall and Spring Terms.

CIS 183 Office Suite Laboratory. Introduction to the software applications of word processing, spreadsheets, and presentation software using the Microsoft Office Suite for Windows. Prerequisite: Coregistration in CIS/CMSC 180. 1 semester credit hour. Mathematics and Computer Science Core Elective. Typically offered: Fall and Spring Terms.

CIS 184 Microsoft Excel Laboratory. Introduction to the software application of spreadsheets using Microsoft Excel. Designed for students interested in manipulating, organizing, analyzing, and presenting numerical data and information within the context of business applications. Coregistration or credit in CIS/CMSC 180. 1 semester credit hour. Mathematics and Computer Science Core Elective. Typically offered: Fall and Summer Terms.

CIS 185 Python Programming Laboratory. An introduction to the fundamentals of programming in Python for students interested in engineering, physics, and computer science. Programming topics include problem-solving, variables, calculations, I/O, conditions, looping, and functions. 2 semester credit hours. Typically offered: Fall Term.

CIS 200 Computer Programming. An introduction to software design, algorithm development and implementation with a high-level programming language. Elementary programming structures, functions, and text and file processing. Functional and object-oriented design and programming, real world and application modeling, testing and debugging. Prerequisites: CIS 181 or CMSC 181, MATH 105 or 110. 4 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Spring Term.

CIS 205 Data Structures and Algorithms I. The study of internal data structures, their applications and implementations including one and two dimensional arrays, lists, stacks, queues, linked lists, and tree structures. Introduction to object-oriented programming. Prerequisite: CIS 200 or CMSC 200. 3 semester credit hours. Typically offered: Fall Term.

CIS 220 Introduction to Computer Systems. Basic data representation, logic design, memory organization, CPU organization, bus structures, assembly language, arithmetic calculation, addressing modes, data organization, subprogram mechanisms, integer and floating point representations, instruction representation, pipelining, microprogramming, input and output, and interrupts. Fall. Prerequisite: CIS 200 or CMSC 200. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall Term.

CIS 264 Introduction to Web Application Development. An introduction to modern web application development with a focus on the client-side. Topics include HTML, XML, JavaScript, PHP, CSS and RESTful web services. 2 semester credit hours. Typically offered: Spring Term.

CIS 274 Object-Oriented Design and Programming. Investigation of object-oriented design and programming through the use of the Java programming language. Includes classes, inheritance, binding, persistence, and operator overloading. Prerequisite: CIS 205 or CMSC 205. 2 semester credit hours. Typically offered: Spring Term.

CIS 300 Information and File Storage Systems. Introduction to file systems and file processing. Data storage and access techniques for sequential, random and indexed file organizations. Hashing,

index structures, B-trees and their derivatives. Inverted and embedded multilist file organizations. Data Mining. Prerequisite: CIS 205. 3 semester credit hours. Typically offered: Periodically.

CIS 330 Database Management Systems. Designing, using, and implementing database systems and applications. Primary emphasis on the relational data model. ER diagrams, relational algebra, query languages, functional dependency theory, normalization techniques, query processing and optimization, concurrency control, recovery and security. Prerequisite: CIS 274 or CMSC 274. 3 semester credit hours. Typically offered: Spring Term.

CIS 331 Database Management Systems Practicum. A hands-on experience with current issues in database management systems. Topics may include Advanced SQL; database administration; and database connectivity through programming, windows applications, and the internet. Prerequisite: Credit or coregistration in CIS 330 or CMSC 330. 1 semester credit hour. Typically offered: Spring Term.

CIS 365 Computer Networks and Data Communication. An introductory course in computer networking and data communications. Theory of a computer network is presented and various types of networks including local area, wide area, and global networks are discussed. Detailed discussion of the Internet Protocol suite (TCP/IP) will be provided. Theory topics include network architecture, data transmission techniques, network topologies, network media, and network security. In addition, the student learns how to use network operating systems. Case studies cover Windows NT, Novell, the Internet, and intranet systems. Prerequisite: CIS 220 or CMSC 220 and junior standing. 3 semester credit hours. Typically offered: Spring Term, Odd Years.

CIS 366 Computer Networks Practicum. A hands-on experience with current issues in computer networks. Development and implementation of stand-alone and web-based client/server applications. Prerequisite: Credit or coregistration in CIS 365 or CMSC 365. 1 semester credit hour. Typically offered: Spring Term, Odd Years.

CIS 374 Advanced Web Application Development. An in-depth study of building large-scale Web Applications focusing on the MVC design pattern. Topics include XML, Java Servlets, JSP, JSTL, EJB, SOAP, mobile application development, database APIs, AJAX, application frameworks and system load testing. 3 semester credit hours. Typically offered: Periodically.

CIS 376 Systems Analysis and Design. Tools and techniques associated with the analysis and design of application systems are studied and evaluated. Traditional and state-of-the-art system development life-cycle methodologies are examined. Specific topics include construction and evaluation of user interviews, data flow diagrams, data dictionaries, decision tables and trees and use of prototyping techniques and computer-aided software engineering tools. The course project requires team analysis and design of a new application system. Prerequisite: CIS 205 and one of FINA 300, MGT 300, or MKTG 300. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

CIS 391 Selected Topics. Various topics to supplement the curriculum. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 12.*

CIS 395 Independent Study. Designed to encourage superior students to continue the study of computer information systems beyond the scope of undergraduate course offerings, through guided independent study. Department consent needed. 1-3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 3.*

CIS 396 ACCA Seminar. Evening seminar at Associated Colleges of Chicago Area schools dealing with advanced topics in computer science. Topics are announced in advance. 1 semester credit hour. Typically offered: Fall Term. *Department Consent Required. Course Repeatable. Maximum number of units allowed 3.*

CIS 397 Undergraduate Project. Independent work on a project supervised by a faculty member in the program. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

CIS 398 Capstone Project. A team-oriented, software engineering project experience to implement a solution to an information-based problem. Prerequisite: Senior Standing, CIS 376 or CIS 388. 3 semester credit hours. Typically offered: Spring Term.

CIS 399 Internship. Prerequisite: GPA of 2.5 in information system coursework. 1-6 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

Computer Science

CMSC 100 Introduction to PC Software Applications. Introduction to the software applications of word processing, spreadsheet, and database management using the Microsoft Office Suite for Windows. For non-majors. 3 semester credit hours.

CMSC 174 Web-Based Applications Development. An introduction to creating web applications. Topics include web-page authoring, markup languages, scripting languages, active server pages, multimedia applications, and client/server systems. Not for major credit. Periodically. 3 semester credit hours. Typically offered: Fall Term.

CMSC 180 Introduction to Computing. An introduction to the fundamental principles of computing and the computers relevance and impact on the world today with an overriding theme of algorithms. Topics include hardware, software, data representation, networks, and databases with applications in simulation, modeling, electronic commerce and artificial intelligence. 2 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall and Spring Terms.

CMSC 181 Visual Programming Laboratory. Provides programming fundamentals, with applications developed in a visual programming language. Programming topics include variables, formatted output, looping, conditional execution, subroutines, functions. Prerequisite: Coregistration in CIS/CMSC 180. 2 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall and Spring Terms.

CMSC 182 Science Applications Laboratory. A laboratory experience for all students interested in analyzing, processing, graphing, displaying, and presenting scientific data through the use of spreadsheet software (Microsoft Excel). Coregistration or credit in CIS/CMSC 180. 1 semester credit hour. Mathematics and Computer Science Core Elective. Typically offered: Fall and Spring Terms.

CMSC 183 Office Suite Laboratory. Introduction to the software applications of word processing, spreadsheets, and presentation software using the Microsoft Office Suite for Windows. Prerequisites: Coregistration in CIS/CMSC 180. 1 semester credit hour. Mathematics and Computer Science Core Elective. Typically offered: Fall and Spring Terms.

CMSC 184 Microsoft Excel Laboratory. Introduction to the software application of spreadsheets using Microsoft Excel. Designed for students interested in manipulating, organizing, analyzing, and presenting numerical data and information within the context of business applications. Coregistration or credit in CIS/CMSC 180. 1 semester credit hour. Mathematics and Computer Science Core Elective. Typically offered: Fall and Summer Terms.

CMSC 185 Python Programming Laboratory. An introduction to the fundamentals of programming in Python for students interested in engineering, physics, and computer science. Programming topics include problem-solving, variables, calculations, I/O, conditions, looping, and functions. 2 semester credit hours. Typically offered: Fall Term.

CMSC 200 Computer Programming. An introduction to software design, algorithm development and implementation in a high-level programming language. Elementary programming structures, functions, and text and file processing. Functional design and programming, real world and application modeling, testing and debugging. Prerequisites: CIS 180 or CMSC 180, MATH 105 or MATH 110. 4 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Spring Term.

CMSC 205 Data Structures and Algorithms I. The study of internal data structures, their applications and implementations including one and two dimensional arrays, lists, stacks, queues, linked lists, and tree structures. Introduction to object-oriented programming. Prerequisite: CMSC 200 or CIS 200. 3 semester credit hours. Typically offered: Fall Term.

CMSC 220 Introduction to Computer Systems. Basic data representation, logic design, memory organization, CPU organization, bus structures, assembly language, arithmetic calculation, addressing modes, data organization, subprogram mechanisms, integer and floating point representations, instruction representation, pipelining, microprogramming, input and output, and interrupts. Prerequisite: CIS 200 or CMSC 200. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall Term.

CMSC 264 Introduction to Web Application Development. An introduction to modern web application development with a focus on the client-side. Topics include HTML, XML, JavaScript, PHP, CSS, and RESTful web services. 2 semester credit hours. Typically offered: Spring Term.

CMSC 270 Data Structures and Algorithms II. The further study of internal data structures including AVL-trees, B-trees and graphs. Internal sorting algorithms, hashing, and recursion.

Algorithm analysis techniques. Prerequisite: CMSC 205 or CIS 205. 3 semester credit hours. Typically offered: Spring Term.

CMSC 274 Object-Oriented Design and Programming. Investigation of object-oriented design and programming through the use of the Java programming language. Includes classes, inheritance, binding, persistence, and operator overloading. Prerequisite: CIS 205 or CMSC 205 . 2 semester credit hours. Typically offered: Spring Term.

CMSC 310 Operating Systems. Process and thread management, multiprocessing, kernels and microkernels, mutual exclusion, semaphores, monitors, message passing, deadlock, memory management, paging, segmentation, interprocessor communication and multitasking. Prerequisites: CMSC 220 and CMSC 274 or CIS 220 and CIS 274. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

CMSC 311 Operating Systems Practicum. A hands-on experience with current issues in operating systems. An internal view of the operating system using the Unix kernel. Inspecting the OS internal state, extending the OS, reimplementing existing data structures and designing new functionality. Linux kernel projects and programming. Prerequisite: Credit or coregistration in CMSC 310. 1 semester credit hour. Typically offered: Fall Term, Odd Years.

CMSC 315 Formal Language and Automata. Introduction to automata theory, relationships between regular expressions, finite state automata and grammars, pushdown automata, closure properties on grammars, and the Chomsky hierarchy of grammars. Prerequisite: CMSC 274 or CIS 274. 3 semester credit hours. Typically offered: Periodically.

CMSC 330 Database Management Systems. Designing, using, and implementing database systems and applications. Primary emphasis on the relational data model. ER diagrams, relational algebra, query languages, functional dependency theory, normalization techniques, query processing and optimization, concurrency control, recovery and security. Prerequisite: CIS 274 or CMSC 274. 3 semester credit hours. Typically offered: Spring Term.

CMSC 331 Database Management Systems Practicum. A hands-on experience with current issues in database management systems. Topics may include Advanced SQL; database administration; and database connectivity through programming, windows applications, and the internet. Prerequisite: Credit or coregistration in CIS 330 or CMSC 330. 1 semester credit hour. Typically offered: Spring Term.

CMSC 350 Numerical Analysis. Numerical methods for isolating roots, solving systems of linear equations, interpolation, and evaluating derivatives and definite integrals. Prerequisite: "C" or better in MATH 211 and programming experience. 3 semester credit hours. Typically offered: Periodically.

CMSC 351 Numerical Analysis Practicum. A hands-on experience with issues in numerical analysis. Topics may include the application of parallel processing capabilities to numerical problems, extend accuracy computations, computational aspects of large physical problem modeling, or experimental relationships between accuracy and complexity in numerical computations. Prerequisite: Credit or coregistration in MATH 380. 1 semester credit hour. Typically offered: Periodically.

CMSC 365 Computer Networks and Data Communication. An introductory course in computer networking and data communications. Theory of a computer network is presented and various types of networks including local area, wide area, and global networks are discussed. Detailed discussion of the Internet Protocol suite (TCP/IP) will be provided. Theory topics include network architecture, data transmission techniques, network topologies, network media, and network security. In addition, the student learns how to use network operating systems. Case studies cover Windows NT, Novell, the Internet, and intranet systems. Prerequisite: CIS 220 or CMSC 220 and junior standing. 3 semester credit hours. Typically offered: Spring Term, Odd Years.

CMSC 366 Computer Networks Practicum. A hands-on experience with current issues in computer networks. Development and implementation of stand-alone and web-based client/server applications. Prerequisite: Credit or coregistration in CIS 365 or CMSC 365. 1 semester credit hour. Typically offered: Spring Term, Odd Years.

CMSC 370 Algorithm Design and Analysis. Methods of designing efficient algorithms including divide and conquer, backtracking, greedy approach, dynamic programming and branch-and-bound. Complexity analysis of algorithms including computational complexity and NP-complete problems. Prerequisite: CMSC 270. 3 semester credit hours. Typically offered: Spring Term, Even Years.

CMSC 374 Advanced Web Application Development. An in-depth study of building large-scale Web Applications focusing on the MVC design pattern. Topics include XML, Java Servlets, JSP, JSTL, EJB, SOAP, mobile application development, database APIs, AJAX, application frameworks, and system load testing. 3 semester credit hours. Typically offered: Periodically.

CMSC 375 Software Engineering. Software development life cycle, the role of project management, software documentation, and software maintenance and support. Students will do a complete project from the concept phase through the software development cycle. Prerequisite: CMSC 274 or CIS 274. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall Term.

CMSC 380 Artificial Intelligence. Problem-solving methods such as logic programming and heuristic search strategies are applied to topics such as game playing, pattern recognition, natural language processing, theorem proving, and expert systems. Prerequisite: CMSC 270. 3 semester credit hours. Typically offered: Periodically.

CMSC 385 Theory of Programming Languages. Organization of programming languages analyzed through representative languages. Introduction to concepts of programming language specification and analysis. Includes type issues, scope, subprograms, runtime behavior and models of programming. Prerequisite: CMSC 274 or CIS 274. 3 semester credit hours. Typically offered: Fall Term, Even Years.

CMSC 386 Programming Languages Practicum. A hands-on experience with current issues in programming languages. A more in-depth view of modern languages such as Perl, C#, VB Script and JavaScript and historical languages such as LISP, Prolog, FORTRAN and COBOL. Prerequisite: Credit or coregistration in CMSC 385. 1 semester credit hour. Typically offered: Fall Term, Even Years.

CMSC 387 Independent Study. Typically offered: Fall and Spring Terms.

CMSC 388 Computer Graphics. Topics include point-plotting techniques, line-drawing displays, two-dimensional transformations, clipping and windowing, raster graphics, three-dimensional graphics, hidden-surface elimination, and ray tracing. Prerequisite: CMSC 270. 3 semester credit hours. Typically offered: Periodically.

CMSC 391 Selected Topics. Various topics to supplement the curriculum. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 12.*

CMSC 396 ACCA Seminar. Evening seminar at Associated Colleges of Chicago Area schools dealing with advanced topics in computer science. Topics are announced in advance. 1 semester credit hour. Typically offered: Fall Term. *Department Consent Required. Course Repeatable. Maximum number of units allowed 3.*

CMSC 397 Undergraduate Project. Independent work on a project supervised by a faculty member in the program. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

CMSC 398 Capstone Project. A team-oriented, software engineering project experience to implement a solution to an information-based problem. Prerequisite: Senior Standing, CMSC 375. 3 semester credit hours. Typically offered: Spring Term.

CMSC 399 Internship. Prerequisite: GPA of 2.5 in computer science course work and consent of instructor. 1-6 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

Criminal Justice

CJUS 150 Introduction to Statistics. Basic course in statistical techniques, which includes measures of central tendency, probability, sampling, estimation and hypothesis testing. For non-business majors. IAI M1 902. Prerequisite: "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

CJUS 195 Research Practicum. Participation in on-going departmental research. 1-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.* 1-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

CJUS 206 Juvenile Justice. Treatment of the juvenile offender in the Juvenile Justice System. Emphasis is on theory, research, principles of law as they apply to the juvenile, causation, prevention, the role of the police and the courts and juvenile corrections and treatment of the convicted offender. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

CJUS 233 Police Systems. Historical overview of the development of policing systems from early societies to the present. Overview of different police systems throughout the modern world and how they operate. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

CJUS 240 Social Problems. Effects of social change, disorganization and value conflict on family life, mental health, ethnic relations, crime and delinquency, related topics. IAI S7 901. Prerequisite: SOCL 100. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

CJUS 243 Ethics in Policing. Ethical issues faced by law enforcement officers in the course of their personal and professional lives. Basic ethical theory is examined as it applies to selected issues and cases. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

CJUS 250 Basic and Applied Statistics. Acquaints students with descriptive statistical techniques (including measures of central tendency and variability, correlation, regression and large and small sample estimation) as well as inferential statistical procedures (t, z and ANOVA designs, nonparametric tests and multiple regression). Focus will be on how these statistical procedures can be directly applied to real-life situations. Prerequisite: MATH 105, MATH 108 or MATH 110. 3 semester credit hours. Typically offered: Every semester. 3 semester credit hours. Typically offered: Periodically.

CJUS 251 Statistics II. ANOVA designs, correlation, regression, non-parametric tests, survey and experimental research techniques, social and behavioral measurements and multivariate analysis. Prerequisite: PSYC 150 or SOCL 150 or CJUS 150. Fee: \$35 3 semester credit hours.

CJUS 252 Research Practicum. Goal of the course is to develop the student's research skills in a particular field (Psychology, Sociology or Criminal Justice) by involving him/her in an actual research project under the direction of a faculty member. Students will meet with the instructor on a regular basis and will write both a preliminary proposal and final paper in APA style, the latter to include identification of the subject of the study, a review of the literature, statement of a working hypothesis, construction of necessary operational definitions, delineation of variables, a description of the population (and sample) and statistical tests if appropriate. Prerequisite: Successful completion of basic skills courses. 3 semester credit hours. Typically offered: Fall and Spring Terms. Department Consent Required. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

CJUS 260 Introduction to Criminal Justice. Examination of the criminal justice system: police, courts and corrections. Analysis of functions, jurisdiction, operation and relationships. IAI CRJ 901. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

CJUS 294 Criminal Procedure. In depth analysis of the criminal and juvenile justice process from arrest through adjudication. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

CJUS 306 Correctional System. Theory and research relating to treatment, incarceration and rehabilitation of the offender. IAI CRJ 911. Prerequisite: SOCL/CJUS 260. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

CJUS 321 Crime and Delinquency. Social and psychological factors related to crime, theories of crime and delinquency, police and court systems and correctional institutions. 3 semester credit hours. Typically offered: Fall Term, Even Years. 3 semester credit hours. Typically offered: Fall Term, Even Years.

CJUS 322 Criminal Law. An examination of criminal law including origins and developmental changes to the present. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Spring Term.

CJUS 324 White Collar Crime. An analysis of crime as it relates to business and business practices. Examines occupational, political, economic and social variables that relate to white collar criminality. Theory of research will be examined. Emphasis is on causation, prevention, laws, arrest, adjudication, conviction, sentencing and treatment of white collar criminals. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

CJUS 326 Introduction to Criminal Investigation. Fundamentals of investigation beginning with the discovery of a crime and including the preservation of the crime scene, the collecting of clues and information, physical and chemical analysis, case preparation and courtroom testing. Case studies will be used. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Fall Term, Odd Years. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

CJUS 330 Probation and Parole. Examination of probation and parole as components of the correctional system. Emphasis is on theory, research and the mechanisms of probation and parole as a means of treating adjudicated criminals. Prerequisite: CJUS 260 and CJUS 306. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

CJUS 331 Organized Crime. Examination of the origins, models and explanations of organized crime and criminal groups, goods and services produced, and the role of the criminal justice system in the social system. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

CJUS 351 Research Methods in the Social Sciences. An analysis of various theoretical approaches to the study of social sciences as well as discussion and completion of the first two chapters of an original research design. Prerequisite: PSYC 251 or SOCL 251 or CJUS 251. Fee: \$35. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms.

CJUS 356 Clinical Practicum Lab. Focus is on teaching interpersonal and primary-level skills of empathy, listening, and interviewing to the introductory level helping professional. Prerequisite: Junior or Senior in CJUS program. 4 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

CJUS 371 Death and Dying. Dynamics of the grief process, the care of the terminally ill and the needs of survivors in the sociological and psychological context of death. 3 semester credit hours. Typically offered: Annually.

CJUS 372 Current Issues in Criminal Justice. Contemporary critical issues that impact the Criminal Justice System including the legislative process, law enforcement, the judicial process and the correctional system. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

CJUS 390 Criminal Justice Field Placement. This field placement provides experience in practice in a professional agency under the supervision of a trained practitioner. Prerequisite: CJUS 356, consent of field placement director prior to the 10th week of the semester preceding the field placement and a GPA of 2.5 or greater. 3-6 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 6.*

CJUS 391 Topics in Criminal Justice. Relevant topics according to the needs and interests of the criminal justice students. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Periodically.

CJUS 395 Senior Thesis. Completion of an original research project under faculty supervision, involving either an original survey design, case study, or experimental analysis. Prerequisite: PSYC 351 or SOCL 351 or CJUS 351. 3 semester credit hours. Department Consent Required. 3 semester credit hours. *Department Consent Required.*

Diagnostic Medical Sonography

DMSC 301 Fundamentals of Sonography. Orientation to basic ultrasound equipment, instrumentation and transducers, acoustic energy, scanning planes and techniques, anatomy identification, image orientation, and terminology. This course must be passed to continue into the Fall semester of the DMS program. 3 semester credit hours. *Department Consent Required.*

DMSC 302 Management and Methods of Patient Care. Review of patient care techniques for the healthcare professional. Medical emergencies and patient transfer, infection control and body substance isolation are discussed. Medical ethics and hospital administration lectures are included. 1 semester credit hour. *Department Consent Required.*

DMSC 303 Sectional Anatomy for Sonographers. Study of anatomy of the abdomen, pelvis, and thoracic cavities, the extremities, and the cervical area. Focus is on cross-sectional and 3-dimensional relationships. 2 semester credit hours. *Department Consent Required.*

DMSC 304 Abdomen Sonography w/Lab. Study of normal abdominal anatomy and sonographic appearances. Review of physiologic function and correlation of laboratory data. Integration of radiology reports, patient history and procedures to effectively perform a diagnostic exam of an organ. Sonographic methods to visualize pediatric and adult abdomen are discussed. Lab sessions

with practicals in scanning techniques are an integral part of the course. 4 semester credit hours. *Department Consent Required.*

DMSC 305 Obstetrics-Gynecology Sonography. Study of obstetrical and gynecological anatomy with clinical applications and sonographic methods used to visualize pelvic organs, pregnant uterus and related structures. Discussion of embryogenesis and a review of the reproductive cycle is included. Normal sonographic patterns are studied. 3 semester credit hours. *Department Consent Required.*

DMSC 306 Clinical Education I. Application of the principles of ultrasound in a hospital setting under the supervision of a qualified registered sonographer. Emphasis on liver, pancreas, gallbladder, kidneys, obstetrics and pelvic areas. Pass/Fail grading. 2 semester credit hours. *Department Consent Required.*

DMSC 307 Principles of Ultrasound Physics I. Introduction and study of the fundamental principles of diagnostic ultrasound physics. Study of acoustic energy and diagnostic ultrasound equipment instrumentation, artifacts and quality control. 3 semester credit hours. *Department Consent Required.*

DMSC 308 Obstetrics-Gynecology Pathology. Presentation of sonographic appearances of pathology relating to the pelvic organs, pregnant uterus and related structures. Fetal congenital anomalies and sonographic appearances are examined. Review of female hormone and reproductive cycle. Interpretation of patient charts, relating clinical history, lab and radiology reports and surgical procedures to pathologic processes is studied. Discussion of differentiating characteristics of various pathologies and any related organ involvement. 4 semester credit hours. *Department Consent Required.*

DMSC 309 Pathophysiology. Review of organ physiology processes and cellular involvement in various pathologic conditions. Major organ systems and related pathologies are discussed. 2 semester credit hours. *Department Consent Required.*

DMSC 310 Abdomen Pathology. Sonographic appearances of pathology relating to abdominal organs and superficial parts are studied. Discussion of differentiating characteristics and pathologic processes of various diseases. Pathology related organ involvement is identified. Interpretation of patient charts, relating clinical history, lab and radiology reports and surgical procedures to pathologic processes. Pediatric pathologies are discussed. 3 semester credit hours. *Department Consent Required.*

DMSC 311 Clinical Education II. This course emphasizes clinical experience progression under the supervision of faculty, sonography staff and clinical instructor. Continued practicum in the clinical applications of abdominal sonography, female pelvis, and obstetrical application. Effective communication, operation of equipment, patient care and technical skills developed. Pass-fail grading. 3 semester credit hours. *Department Consent Required.*

DMSC 312 Principles of Ultrasound Physics II. Continuation of the study of the fundamental principles of diagnostic ultrasound physics and instrumentation. Study of Doppler physics, spectral

and color flow principles and instrumentation, artifacts and QA, plus a review of bioeffects, safety and AIUM acoustic energy guidelines. 2 semester credit hours. *Department Consent Required.*

DMSC 313 Ultrasound Image Critique. Study of film critique, technical factors, and interpretation of quality sonographic images. Review of sonographic terminology, image quality factors, scanning protocols and techniques, and normal sonographic appearances of abdominal, OB_GYN, and vascular structures. Integration of clinical history and related organ systems to aid in the interpretation of images. Discussion of abnormal sonographic images and correlation of clinical data to develop diagnostic criteria. 1 semester credit hour. *Department Consent Required.*

DMSC 314 Clinical Education III. The student continues to improve scanning skills under the supervision of faculty, sonography staff and clinical instructor. Emphasis remains on abdominal, small parts, and obstetrical-gynecological sonography. The student will have an opportunity to refine skills and increase self-confidence through progressively more independent scanning. Pass-fail grading. 3 semester credit hours. *Department Consent Required.*

DMSC 315 Introduction to Pediatrics and Vascular Imaging. Introduction to neonatal and pediatric sonographic examinations and pathologies. Peripheral vascular anatomy, protocols, and pathologies are discussed. Included is the practice of carotid artery and lower extremity venous peripheral vascular exams under direct supervision in the laboratory setting. 1 semester credit hour. *Department Consent Required.*

DMSC 316 Specialty Sonography. Study of various obstetrical, abdominal, and superficial parts pathology, including neonatal procedures, GI tract, soft tissues, liver transplants, and invasive procedures. Presentation of pathologic processes, sonographic appearances, and clinical history. Administrative duties pertinent to managing a diagnostic ultrasound department are presented. 2 semester credit hours. *Department Consent Required.*

DMSC 317 Clinical Education IV. In this final period of clinical study, the student demonstrates full competency and progresses to full independence under the supervision of sonography staff, clinical instructor, and clinical coordinator. Emphasis on abdominal, small parts, OB_GYN pathology identification, diagnosis, and related organ involvement documentation. Rotations in the practice of peripheral vascular exams, pediatrics, breast imaging, and other specialties within the field may be arranged. Pass/fail grading. 4 semester credit hours. *Department Consent Required.*

DMSC 318 Registry Review. A review of abdomen, OB_GYN, and physics information pertinent to taking the American Registry of Diagnostic Medical Sonography national certification examinations. Registry applications are provided, and mock registry exams are part of the review process. 2 semester credit hours. *Department Consent Required.*

Economics

ECON 100 Introduction to Economics. This core course is a general introduction for non-majors into the operation of the economy. Includes the demand-supply model, and study of specific market structures (Microeconomics), and the aggregate demand-aggregate supply model, business cycles,

unemployment, inflation and monetary and fiscal policy (Macroeconomics). IAI S3 900. MATH 095. 3 semester credit hours. Economics Core Elective. Typically offered: Fall and Spring Terms.

ECON 101 Principles of Macroeconomics. Determination of income, employment, and the price level. Effects of fiscal and monetary policies. IAI S3 901. Prerequisite: MATH 105, 108, or 110. 3 semester credit hours. Economics Core Elective.

ECON 102 Principles of Microeconomics. Demand-Supply model, consumer and firm decision-making, market structures, price determination, resource allocation. IAI S3 902. Prerequisite: MATH 105, 108, 110. 3 semester credit hours. Economics Core Elective.

ECON 201 Theory of Income and Economic Growth. Advanced analysis of determinants of growth, national income, employment, and price level; monetary and fiscal policy. Prerequisite: ECON 101, ECON 102. 3 semester credit hours.

ECON 202 Price Theory and Application. Analysis of consumer choices and of decision-making by firms under different market conditions. Prerequisite: "C" or better in ECON 101 and ECON 102. 3 semester credit hours.

ECON 227 Applied Microeconomics. This course surveys the broad concepts of microeconomics. Topics include supply-demand concepts, the production function, pricing analysis, resource allocations and market structures. The emphasis is on developing understand and mastery of skills required by managers of organizational units of all types. Prerequisite: ECON 100 or ECON 101 and ECON 102 and Admission to the Adult Learning Team or Online Program. 3 semester credit hours.

ECON 291 Topics. Advance coverage of selected topics in economics. Specific content will vary from year to year depending on which faculty member teaches the course. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

ECON 292 Economics Teaching. This course is a practicum in economics. 1-3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

ECON 297 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Typically offered: Periodically. Department Consent Required. Course Repeatable. Maximum number of units allowed 12. 2-6 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

ECON 305 Comparative Economic Systems. A comparative analysis of the major world economic systems, including a critical appraisal of underlying philosophies, economic theories, structures, and performance. 3 semester credit hours.

ECON 310 Money and Financial Markets. Study of money, the banking system, monetary theories, and relation of the monetary system to national income, employment, and price levels. Prerequisite:

ECON 101, ECON 102. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

ECON 320 Area Studies. Cultural, economic and business conditions of different world regions. Prerequisite: ECON 101. 3 semester credit hours. Business Core Elective. Typically offered: Periodically. *Department Consent Required.*

ECON 331 Labor and Industrial Relations. Analysis of the structure and behavior of labor and business enterprises and implications of this behavior for resource allocation and individual welfare. Prerequisite: ECON 101, ECON 202. 3 semester credit hours. Writing Intensive Course. 3 semester credit hours. Writing Intensive Course.

ECON 340 Public Finance. This course examines the economics of the public sector, including the impact of the government budget on resource allocation, income distribution and economic stabilization; principles and problems of budget determination, including both tax and expenditure aspects; tax shifting and incidence; and fiscal and debt management policies. Prerequisite: ECON 101, ECON 202. 3 semester credit hours. 3 semester credit hours.

ECON 351 Global Development Issues. A study of the meaning, measurement and historical context of economic development and the issues underlying the vast differences in development between nations of the world. Topics covered include population, agriculture, industry, trade and foreign debt. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

ECON 360 International Trade and Finance. Trade theory, trade barriers, balance of payments, exchange rates, open-economy macroeconomics. Prerequisite: ECON 101, ECON 310, and "C" or better in MATH 115. 3 semester credit hours. 3 semester credit hours.

ECON 370 Industrial Organization and Policy. Focuses on empirical studies in patterns of market structure, business behavior, and performance. Applications in the fields of antitrust and regulation are stressed. Prerequisite: ECON 202. 3 semester credit hours. 3 semester credit hours.

ECON 391 Topics. Advance coverage of selected topics in economics. Specific content will vary from year to year depending on which faculty member teaches the course. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

ECON 395 Independent Study. Directed readings, independent research, or student projects on areas of individual academic interest; topics, meeting times, and outcomes arranged with instructor. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

ECON 397 Internship. Practical experiences in business related fields under the supervision of the program. 3 semester credit hours. *Department Consent Required.*

Education

EDUC 200 Preclinical Experience. Directed observation and participation in off-campus setting. Students participate in a 35 hour experience. Transportation needed. IAI EED 904; IAI SED 905. Prerequisite Main Campus: Cumulative GPA of 2.50, preclinical application and coregistration in EDUC 205. Prerequisite Springfield Campus: Cumulative GPA of 2.75, preclinical application and coregistration in EDUC 205. Student must have passed TAP test to enroll in class. 1 semester credit hour. Typically offered: Fall, Spring and Summer Terms.

EDUC 205 History and Philosophy of Education. A survey of education in the United States from the Colonial period to the present with emphasis on the major philosophies which have influenced American education. Philosophies relative to each grade level, including middle grades, are presented. Prerequisite Main Campus: Cumulative GPA of 2.50 and coregistration in EDUC 200. Prerequisite Springfield Campus: Cumulative GPA of 2.75 and coregistration in EDUC 200 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 206 Transfer Introduction to Education Seminar. A required seminar course for students who have been awarded transfer credit for Education 205 (History and Philosophy of Education). Registration is required during the first semester of matriculation in the School of Education. The seminar will meet for 5 sessions and will serve as introduction to the Benedictine University School of Education, LiveText and the portfolio process. Students registering for this course will undergo a State of Illinois background check. Typically offered: Fall, Spring and Summer Terms.

EDUC 207 Introduction to Education Seminar. For all Education majors and minors who enter Benedictine University as of Fall 2010. Typically offered: Fall, Spring and Summer Terms.

EDUC 210 Educational Psychology. Survey of theories of classroom learning processes including human growth and development, evaluation, the exceptional child and the disadvantaged child. Emphasis also on the developmental characteristics and nature and needs of the early adolescent. Cross-referenced as EDUC241/PSYC 241. IAI SED 902. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 215 Technology for Teachers. This required course will cover topics relevant to use of technology in the classroom, lesson planning via technology, and use of the Internet for education purposes. Other topics include LiveText, Powerpoint, WebCT, Inspiration, Dreamworks, design of web pages and user groups, spreadsheets for grade reports and digital portfolios. Prerequisite main campus: Coregistration in EDUC 200 and EDUC 205 (or EDUC 206); cumulative GPA of 2.5. Springfield Campus: Coregistration in EDUC 200 and EDUC 205 (or EDUC 206); cumulative GPA of 2.75 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 227 Aural Skill IV. Fourth course in training of musical skills relating to pitch and rhythmic recognition. Students will develop the ability to sing melodies in pitch and rhythm. Progression through Aural Skill courses dependent on proficiency testing. Prerequisites: MUSI 101/112, 102/113, and 201/212 or proficiency testing. Coregistration with MUSI 202 required. 1 semester credit hour. Typically offered: Spring Term.

EDUC 235 Children's Literature. Survey of forms of literature written for children. Emphasis on appreciation and evaluation of books and authors, choices for age groups, school and home settings and the importance of children's literature as a basis for a lifelong enrichment. Prerequisite Main Campus: Cumulative GPA of 2.5. Springfield Campus: Cumulative GPA of 2.75. 3 semester credit hours. Typically offered: Spring Term.

EDUC 240 Reading and Language Arts. The development of total content in reading and language arts: emphasizes an holistic approach to teaching reading, writing, speaking and listening. Specific methods and philosophies are discussed relative to grades K-2, 3-5 and 6-8. Prerequisite Main Campus: EDUC 205 and cumulative GPA of 2.5. Springfield Campus: EDUC 205 and cumulative GPA of 2.75. 3 semester credit hours. Typically offered: Fall Term.

EDUC 257 Learning Behavior Characteristics of Individuals with Physical Disabilities and Mental Retardation. Reading and discussion regarding learning and behavioral characteristics of persons labeled with physical handicaps and mental retardation. Students will develop awareness of the diverse medical, physical, motor, communication, social-emotional and cognitive needs and defining characteristics of the population, as well as identify appropriate programming approaches. Prerequisite: EDUC 260(3), cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 260 Survey of Exceptional Children. Discussion of atypical development: characteristics of persons labeled as having mental retardation, learning disabilities, behavioral disabilities, sensory deficits, speech disorders and health/physical challenges. Diagnosis, referral, educational strategies and legal implications are reviewed. Cross listed as EDUC 204/PSYC 204. IAI ECE 913; IAI SED 904. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 265 Learning Behavior Characteristics of Individuals with Learning Disabilities. Includes severe emotional disturbances history, definitions, assessment techniques, placement procedures and intervention techniques. Current research and theories are explored and analyzed. Focuses on supported education and collaborative learning. Prerequisite: EDUC 260, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 270 Learning Behavior Characteristics of Individuals with Emotional Disorders. A study of characteristics of people with severe emotional disturbances, including causes, characteristics and implications for therapeutic intervention. Educational approaches, philosophies and diagnostic categories of SED will be explored. Prerequisite: EDUC 260, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 275 Working with Families of Persons with Disabilities. Designed to enable the future professional to work with families of persons who have exceptional needs. Emphasis is on family systems theory, legislation and formation of cooperative school and home partnerships with families. Prerequisite: EDUC 260 and cumulative GPA of 2.5. 3 semester credit hours. Typically offered: Spring Term.

EDUC 300 Professional Seminar for Teachers. This required module course is offered each semester and should be taken halfway through the professional sequence of education courses. It is

designed to provide a discussion forum for topics such as understanding the school culture, boundary issues, important aspects of school law, relationships with colleagues, demeanor and dress, and classroom responsibilities. Prerequisite: Cumulative GPA of 2.5 and TEP. 1 semester credit hour. Typically offered: Fall, Spring and Summer Terms.

EDUC 310 Measurement and Evaluation. Introduction to basic education statistics, K-12 assessments, understanding assessment issues and understanding educational research. Includes design of classroom tests and education assessments, portfolio assessment and assessment strategies for exceptional children. Prerequisite Main Campus: EDUC 260 and cumulative GPA of 2.5. Prerequisite Springfield Campus: EDUC 260 and cumulative GPA of 2.75. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 311 Assessment and Diagnosis for Special Education (LBSI). This course provides students with the background and skills essential to utilize diagnostic data to construct appropriate educational recommendations and to prepare comprehensive educational evaluations for students with special learning needs. Prerequisite: EDUC 260 and cumulative GPA of 2.5 or higher. 3 semester credit hours.

EDUC 312 Methods of Teaching Social Studies – Elementary. Methods and materials for teaching social studies in elementary and middle schools. Specific methods (e.g. reading in the content area) and philosophies are discussed relative to grades K-2, 3-5 and 6-8. Prerequisite Main Campus: EDUC 205, cumulative GPA of 2.5 and TEP. Prerequisite Springfield Campus: EDUC 205, cumulative GPA of 2.75, and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 313 Linguistics for Educators. Linguistics for educators is a classroom focused introduction to the study of language and linguistics. The purpose of this class is to provide classroom teachers with a practical grasp of social and academic linguistic building blocks inherent in the English language and how they apply to teaching ESL. (Includes 15 clinical hours) 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 314 Theoretical Foundations of Teaching English as a Second Language. This course will help practicing and prospective teachers to understand current research and theories of second language acquisitions (SLA), specifically as they relate to teaching English as a second language. Through readings, critical analysis and thoughtful discussion, students will learn about the current theories of second language learning and acquisition. This class is intended to help prospective teachers create a rationale for their teaching by exposing them to a broad range of theory and research in psycholinguistics, applied linguistics, learning theory, sociolinguistics and the various teaching methodologies which are rooted in these fields. Students will examine the major theories, concepts and guiding hypotheses in the field of Applied Linguistics and Teaching English to Speakers of Other Languages (TESOL) in terms of English language learners' performance. Students will explore the many factors that affect school performance of second language learners. Students will investigate and develop useful and relevant models of SLA, engage and debate the merits of various theories, and learn the vocabulary of the field (Includes 20 clinical hours) 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 315 Methods of Teaching Mathematics – Elementary. Characteristics and concepts of programs in elementary and middle-grade mathematics. The patterns of meaningful instruction, curricular trends and teaching materials and philosophies relative to grade K-2, 3-5 and 6-8 are discussed. Students participate in a 35-hour preclinical experience. Transportation needed. Prerequisite Main Campus: EDUC 205, co registration in EDUC 316, cumulative GPA of 2.5 and TEP. Prerequisite Springfield Campus: EDUC 205, co registration in EDUC 316, cumulative GPA of 2.75, and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 316 Preclinical Experience – Elementary Mathematics. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite Main Campus: Preclinical application, coregistration in EDUC 315, cumulative GPA of 2.5 and TEP. Prerequisite Springfield Campus: Preclinical application, coregistration in EDUC 315, cumulative GPA of 2.75, and TEP. Typically offered: Fall Term. *Department Consent Required.*

EDUC 317 Methods and Materials for ESL. Briefly overview the historical development and theoretical basis of a range of methodologies and approaches in Teaching English as a Second Language (TESL). Develops an understanding and critical appreciation of the advantages and disadvantages of current approaches, methods, techniques, activities and materials for teaching ESL to students K-12. Examines the relationship between TESL and No Child Left Behind (NCLB) mandated standards. Students will gain practical experience in developing curricula and materials appropriate to specific K-12 ESL teaching contexts. (Includes 20 clinical hours) 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 318 Methods of Teaching Science – Elementary. Methods and materials for teaching science in the elementary and middle school classrooms. Specific methods (e.g. reading in the content area) and philosophies are discussed relative to grades K-2, 3-5 and 6-8. Prerequisite Main Campus: EDUC 205, cumulative GPA of 2.5 and TEP. Prerequisite Springfield Campus: EDUC 205, cumulative GPA of 2.75, and TEP. 3 semester credit hours. Typically offered: Spring Term.

EDUC 320 Literacy and Assessment. Includes discussion of reading assessment in terms of diagnosing problems and prescribing instruction for children experiencing reading difficulties in grades K-2, 3-5 and 6-8. Students participate in a 35-hour clinical experience that affords the opportunity to apply theory into practice. Transportation needed. . Prerequisite Main Campus: EDUC 240, coregistration in EDUC 321, cumulative GPA of 2.5 and TEP. Prerequisite Springfield Campus: EDUC 240, coregistration in EDUC 321, cumulative GPA of 2.75, and TEP. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall, Spring and Summer Terms.

EDUC 321 Preclinical Experience: Reading. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite Main Campus: Preclinical application, coregistration in EDUC 320, cumulative GPA of 2.5 and TEP. Prerequisite Springfield Campus: Preclinical application, coregistration in EDUC 320, cumulative GPA of 2.75, and TEP. *Department Consent Required.*

EDUC 322 Reading, Writing and Thinking in the Middle and Secondary School Curriculum. Examines the relationship between reading, writing, oral communication and thinking and explores strategies for integrating these areas across the curriculum. Examines a variety of theoretical perspectives and instructional strategies involving simulation, role-playing, case studies, inquiry,

problem-solving, critical thinking and environmental learning. Lesson and unit plan development emphasized. Spring. Prerequisite: Cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Spring Term.

EDUC 330 Methods of Teaching Physical Science – Middle/Junior and High School. Emphasis is placed on the methods, content and instructional materials utilized in the subject area for middle school and high school. Fall. Prerequisite: EDUC 205, coregistration in EDUC 350, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 331 Methods of Teaching Chemical Science – Middle/Junior and High School. Emphasis is placed on the methods, content and instructional materials utilized in the subject area for middle school and high school. Fall. Prerequisite: EDUC 205, coregistration in EDUC 350, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 332 Methods of Teaching Biological Science – Middle/Junior and High School. Emphasis is placed on the methods, content and instructional materials utilized in the subject area for middle school and high school. Fall. Prerequisite: EDUC 205, co registration in EDUC 350, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 333 Assessment of English as a Second Language and Bilingual Students. Assessment is a systematic process that plays a key role in every aspect of programming for ESL and bilingual learners. Assessment of ESL and bilingual students provides educators with information and hands-on experience in dealing with the subject of formal and informal assessment/evaluation within cross-cultural settings, particularly in the education of ESL and bilingual learners. (Includes 20 clinical hours). 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 334 Cultural Diversity and English as a Second Language. This course examines the nature of culture and its impact on the political and social aspects of teaching and learning a second language in culturally and linguistically diverse settings. Related topics include biculturalism, race, ethnicity, gender and social class; the implications of government policies such as No Child Left Behind (NCLB); addressing diversity in the classroom; and interacting with immigrant parents and communities. Students will be involved in critical reflection on both theory and practical experience, with the goal of developing a deeper cultural awareness that can inform their teaching and interaction with diverse communities. (Includes 20 clinical hours) 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 335 Methods of Teaching Mathematics – Middle/Junior and High School. Emphasis is placed on the methods, content and instructional materials utilized in the subject area for middle school (grades 6-8) and high school (grades 9-12). Fall. Prerequisite: EDUC 205, coregistration in EDUC 350, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 337 Multicultural Literature for Children and Adolescents. This course will introduce students to a range of high quality multicultural literature for all grade levels. Students will immerse themselves in the texts as they learn how cultural, linguistic and ethnic diversity influence reading; how breadth and depth of reading experience influence vocabulary and comprehension development; a variety of ways to respond to literature; the analysis and evaluation of material;

understanding dialect; and language differences and the implication for reading. (Includes 5 clinical hours). 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

EDUC 338 Methods of Teaching English – Middle/Junior and High School. Emphasis is placed on the methods, content and instructional materials utilized in the subject area for middle school and high school. Prerequisite: EDUC 205, coregistration in EDUC 350, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 340 Methods of Teaching Spanish – Elementary, Middle/Junior and High School. Emphasis is placed on the methods, content and instructional materials utilized in the subject area for grades K-12. Fall. Prerequisite: EDUC 205, coregistration in EDUC 350, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

EDUC 342 Methods of Teaching History, Political Science and Economics – Middle/Junior and High School. Emphasis is placed on the methods, content and instructional materials utilized in the subject area. Transportation needed. Fall. Prerequisite: EDUC 205, coregistration in EDUC 350, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 343 Methods of Teaching Business/Marketing/Computer Education – Middle/Junior and High School. Emphasis is placed on the methods, content and instructional materials utilized in the subject area for middle school and high school. Fall. Prerequisite: EDUC 205, coregistration in EDUC 350, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 345 Methods of Teaching Physical Education – Elementary, Middle/Junior and High School. Emphasis is placed on the methods, content and instructional materials utilized in the subject area for elementary, middle school, and high school. Prerequisite: EDUC 205, co-registration in EDUC 350, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 350 Preclinical Experience – Middle/Junior and High School. Thirty-five hours in an off-campus classroom setting in the appropriate grade levels of middle/junior and high school (6-12) and elementary for designated certification areas (K-12). Transportation needed. Prerequisite: Preclinical application, cumulative GPA of 2.5 and TEP. *Department Consent Required. Course Repeatable. Maximum number of units allowed 0.*

EDUC 352 Young Adult and Multicultural Literature in the Middle and Secondary School Curriculum. Evaluation, selection and teaching of literature to serve the interests and reading needs of students from the middle-school through high school. The course includes literature which reflects the culture and heritage of America's multiethnic/multicultural population. The course emphasizes theory and research in reading comprehension, literary criticism, including reader response and curriculum and instruction. In addition, the course includes critical analysis, methods of teaching literature and the uses of literature in the curriculum. Prerequisite Main Campus: Cumulative GPA of 2.5 and TEP. Prerequisite Springfield Campus: Cumulative GPA of 2.75 and TEP. 3 semester credit hours. Typically offered: Periodically.

EDUC 353 Methods and Principles of Middle School Education. Analysis of the philosophy and practices in middle-level education. Primary emphasis is placed on the unique needs of middle-level

students and programs and instructional methods and practices designed to meet those needs, including content area reading instruction. Examination of teacher roles in the middle school and curricular reform movements, including strategies for teaching across the curriculum. Students participate in a 35-hour preclinical experience. Transportation is needed. Prerequisite: EDUC 205, coregistration in EDUC 354, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Fall and Spring Terms.

EDUC 354 Preclinical Experience: Methods and Principles of Middle School Education. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite: Preclinical application, coregistration in EDUC 353, cumulative GPA of 2.5 and TEP. *Department Consent Required.*

EDUC 355 Classroom Management. Identifies positive programming strategies for managing challenging behavior in elementary, middle school, secondary and special education classrooms. Prerequisite: EDUC 205, EDUC 260, cumulative GPA of 2.5 and TEP. 3 semester credit hours. *Department Consent Required.*

EDUC 356 Preclinical Experience: Classroom Management. Twenty hours in an off-campus setting. Transportation needed. Prerequisite: Preclinical application, coregistration in EDUC 355, cumulative GPA of 2.5 and TEP. *Department Consent Required.*

EDUC 357 Learning Behavior Methods of Teaching Individuals with Physical Disabilities and Mental Retardation. Techniques for arranging the instructional environment to provide for maximum learner participation, and design of individualized adaptations and methods of ensuring learner acquisition, fluency, maintenance and generalization for those learners identified with physical handicaps and mental retardation. 35 hour preclinical experience required. Transportation needed. Prerequisite: EDUC 257, EDUC 205, EDUC 260, coregistration in EDUC 358, cumulative GPA of 2.5 and TEP. 4 semester credit hours. Typically offered: Spring Term.

EDUC 358 Preclinical Experience: Physical Disabilities and Mental Retardation Methods. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite: Preclinical application, coregistration in EDUC 357, cumulative GPA of 2.5 and TEP. *Department Consent Required.*

EDUC 360 Learning Behavior Methods of Teaching Individuals with Learning Disabilities. Focus is on the design, implementation and evaluation of data-based instruction for instructing students with learning disabilities. Students participate in a 35-hour preclinical experience. Transportation needed. Prerequisite: EDUC 205, EDUC 260, EDUC 265, coregistration in EDUC 361, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Spring Term.

EDUC 361 Preclinical Experience: Learning Disabilities Methods. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite: Preclinical application, coregistration in EDUC 360, cumulative GPA of 2.5 and TEP. *Department Consent Required.*

EDUC 365 Learning Behavior Methods of Teaching Individuals with Emotional Disorders. Designed to enable the teacher to implement environmental and contingency management principles. Teacher survival skills in relationship to children labeled as having social/emotional and

behavior disorders will be studied. Emphasis will be placed on methods of educating within a functional, age-appropriate, community-based approach. Students participate in a 35-hour preclinical experience. Transportation needed. Spring. Prerequisite: EDUC 205, EDUC 260, EDUC 270, coregistration in EDUC 366, cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Spring Term.

EDUC 366 Preclinical Experience: Emotional Disorder Methods. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite: Preclinical application, coregistration in EDUC 365, cumulative GPA of 2.5 and TEP. Department Consent Required.

EDUC 370 Student Teaching Elementary and Middle School. Full semester teaching experience under professional guidance. Includes observation, planning and supervised teaching. Each semester. Prerequisite Main Campus: Required professional education courses and approval by the Teacher Education Committee. Applications must be submitted one year in advance. Transportation needed. Cumulative GPA of 2.5, admitted into TEP, and ICTS content test. Prerequisite Springfield Campus: Required professional education courses and approval by the Teacher Education Committee. Applications must be submitted one year in advance. Transportation needed. Cumulative GPA of 2.75, admitted into TEP, and ICTS content test. 12 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

EDUC 371 Student Teaching – Middle/Junior and High School. Full semester teaching experience under professional guidance. Includes observation, planning and supervised teaching. Each semester. Prerequisite: Required professional education courses and approval by the Teacher Education Committee. Applications must be submitted one year in advance. Transportation needed. Cumulative GPA of 2.5, admitted into TEP, and ICTS content test. 12 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

EDUC 372 Student Teaching – Elementary Special Education, Learning Behavior Specialist I. Half-semester student teaching under professional guidance. Includes observation, planning and supervised teaching in an elementary school. Each semester. Prerequisite: Coregistration in EDUC 373, required professional education courses and approval by the Teacher Education Committee. Applications must be submitted one year in advance. Transportation needed. Cumulative GPA of 2.5, admitted into TEP, and ICTS content test. 6 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

EDUC 373 Student Teaching – Secondary Special Education, Learning Behavior Specialist I. Half semester student teaching under professional guidance. Includes observation, planning and supervised teaching in a secondary school. Each semester. Prerequisite: Coregistration in EDUC 372, required professional education courses and approval by the Teacher Education Committee. Applications must be submitted one year in advance. Transportation needed. Cumulative GPA of 2.5, admitted into TEP, and ICTS content test. 6 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

EDUC 374 Student Teaching K-8 Elementary Music Education. Half-semester student teaching under professional guidance. Includes observation, planning, and supervised teaching in an elementary school. Transportation needed. Applications must be submitted one year in advance.

Cumulative GPA of 2.5, admitted into TEP, and ICTS content test. 6 semester credit hours.
Department Consent Required.

EDUC 375 Student Teaching 6-12 Secondary Music Education. Half-semester student teaching under professional guidance. Includes observation, planning, and supervised teaching in a secondary school. Transportation needed. Applications must be submitted one year in advance. Cumulative GPA of 2.5, admitted into TEP, and ICTS content test. 6 semester credit hours. *Department Consent Required.*

EDUC 391 Topics. Relevant topics according to the needs and interest of education students. Prerequisite: Cumulative GPA of 2.5 and TEP. 1-3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

EDUC 395 Independent Study in Education. Intensive independent study on a problem topic in education to fit the specific interests as well as needs of specific research problems. Work cannot be done in conjunction with another education course, nor in place of a required course. Prerequisite: Cumulative GPA of 2.5., and TEP. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

Engineering

ENGR 100 Introduction to the Engineering Profession. This course is an introduction to the field of engineering and is designed for students entering or considering engineering as a career path. The course consists of hands-on projects, where students will learn the basics of the engineering design process, as well as presentation by outside speakers who will discuss specifics about the different fields of engineering. 1 semester credit hour. Typically offered: Fall Term.

ENGR 110 Engineering Design. A hands-on course where students learn about the engineering design process and problem-solving through the implementation and completion of projects from different fields of engineering. During the course, students will work in groups to develop skills in design, team work, technical writing and presentations. 3 semester credit hours. Typically offered: Spring Term.

ENGR 120 Engineering Graphics. Fundamentals of engineering communications employing applied geometry in instrument and CAD presentation and interpretation of orthographic, sectional, intersection, development and pictorial views. Introduction to basic machine elements and shop practices. 2 semester credit hours. Typically offered: Fall Term.

ENGR 220 Analytical Mechanics. This course presents an intermediate treatment of Newton's law in various coordinate systems, projectile motion including air resistance, momentum, angular momentum, energy and conservative forces, driven and damped oscillators, nonlinear mechanics and chaos, Lagrange's equations, two body central force problems, mechanics in non-inertial frames, rotational motion of rigid bodies, and coupled oscillators. The course introduces vector calculus, differential equations, complex numbers, Taylor series, and matrices in the solutions to problems. IAI EGR 943. Prerequisite: "C" or better in PHYS 211 and MATH 211. Cross listed as PHYS/ENGR 220. 3 semester credit hours. Typically offered: Fall Term.

ENGR 264 Electronics. An integrated laboratory and lecture course designed to cover the basic principles of modern electronics. Topics include AC and DC circuits, linear and non-linear devices, power supplies, operational amplifiers, and logic circuits. Lecture and laboratory work are integrated allowing the students to test the theory through projects that the students design and build.

Prerequisite: "C" or better in PHYS 118 or 212 or departmental consent. Cross listed as PHYS/ENGR 264. 3 semester credit hours. Typically offered: Spring Term.

English as a Second Language

ESLS 10 Beginning Listening/Speaking. Recognizes the names of familiar objects by listening to language in clearly contextualized situations. Constructs meaning by combining comprehension of familiar vocabulary words with a variety of strategies to fill in gaps. . 3 semester credit hours.

Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 100 College Conference Writing. This bridge course introduces and develops college-level; writing as a writing process. Improves on developing and supporting a thesis in a variety of organized essays including a research paper. Emphasizes self and peer editing, and strategies for essay exams. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Course Repeatable. Maximum number of units allowed 27.*

ESLS 11 Beginning Reading. Begins with the basic vocabulary and sentence patterns; reading oral presentations. Identifies an increasing number of cognates, borrowed words, and highly contextualized words and phrases. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 13 Beginning Oral Communication. Focuses on successfully communicating basic survival needs for campus and community. Develops conversational abilities by focusing on questions and answers as the foundation of oral interaction. Prerequisite: Coregistration with ESLS 014. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 14 Pronunciation I Workshop. Workshop oriented course to develop speech clarity with emphasis on phonetic alphabet identifying, distinguishing, producing, and contrasting correct sounds, stress, intonation, and rhythm. Learns various accent reduction techniques. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 15 Beginning Writing. Emphasizes sentence level grammar; practice supplying written responses to questions. Begins to organize ideas into simple paragraph form. Prerequisite: Coregistration in ESLS 016. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 16 Beginning Grammar. Workshop oriented course that emphasizes the formal properties of the English language. Focuses on basic statement and question patterns, identifying parts of speech, subject/verb agreement, simple and continuous present, past, and future tenses, and introduce

nouns/pronouns, articles, adverbs, and adjectives, demonstratives, possessives, conjunctions, quantifiers, prepositions, and modals. Practices error correction and TOEFL tests. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 15.*

ESLS 17 Individualized Instruction. A personalized program of study designed to satisfy individual, academic or professional goals. Emphasis may be placed on one or more language modalities. Open to the beginning, intermediate, and advanced- level student. 1-3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 27.*

ESLS 20 Intermediate Listening/Speaking. Improves speaking and listening abilities in performing social and academic functions. Practices note-taking from oral talks, and video/audio clips; identifies main points and support. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 21 Intermediate Reading. Reads a variety of simple connected texts with increased understanding. Attention to skimming and scanning as well as paraphrasing and summarizing short texts. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 24 Pronunciation II Workshop. Workshop oriented course to develop speech clarity with emphasis on phonetic alphabet identifying, distinguishing, producing, and contrasting correct sounds, stress, intonation, and rhythm. Learns various accent reduction techniques. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 25 Intermediate Writing. Learns to write paragraphs with a topic sentence, supporting details, and concluding statement. Writes on a variety of topics. Prerequisite: Coregistration with ESLS 026. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 26 Intermediate Grammar. Workshop oriented course that emphasizes the formal properties of the English language. Identifies and develops a greater control of the students' grammar needs. Areas of focus include: present, past, future and perfect tenses; noun phrases; adjective clauses and adjective phrases; comparisons; modals; gerunds and infinitives. Practices error correction and TOEFL tests. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 15.*

ESLS 27 Individualized Instruction. A personalized program of study designed to satisfy individual, academic or professional goals. Emphasis may be placed on one or more language modalities. Open to the beginning, intermediate, and advanced- level student. 1-3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 27.*

ESLS 30 Advanced Listening/Speaking. Uses authentic listening sources to develop the ability to listen to general, academic information and improve note-taking skills. Students will attend a lecture in their field of study. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 31 Advanced Reading. Reads authentic academic and literary texts. Focus on critical reading skills such as recognizing bias and assessing the validity of written material. Improves skimming and scanning techniques. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 32 Intermediate Oral Communication. Practices interaction through collaborative grouping; conduct interviews, interviews, make cultural comparisons, and gives short oral presentations. Prerequisite: Co-registration with ESLS 024. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 33 Advanced Oral Communication. Participates fully in discussions and present ideas on complex topics. Prepares formal presentations making full use of support technology. Prerequisite: Co-registration with ESLS 034. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Course Repeatable. Maximum number of units allowed 18.*

ESLS 34 Pronunciation III Workshop. Workshop oriented course to develop speech clarity with emphasis on phonetic alphabet identifying, distinguishing, producing, and contrasting correct sounds, stress, intonation, and rhythm. Learns various accent reduction techniques. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Course Repeatable. Maximum number of units allowed 18.*

ESLS 35 Advanced Writing. Focuses on writing as a process. Writes cohesive works in various patterns of essay organization. Prerequisite: Co-registration with ESLS 036. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 36 Advanced Grammar. Workshop oriented courses that emphasizes the formal properties of the English language. Identifies and improves on students' grammar needs. Areas of focus include: present, past, future, and perfect tenses; noun phrases and clauses; adjective clauses and adjective phrases; gerunds and infinitives; modals; passives; conditionals; adverb clauses and phrases; connecting ideas. Practices error correction and TOEFL tests. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 15.*

ESLS 37 Individualized Instruction. A personalized program of study designed to satisfy individual, academic or professional goals. Emphasis may be placed on one or more language modalities. Open to the beginning, intermediate, and advanced- level student. 1-3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 27.*

Environmental Science

ENVS 105 Physical Geography. An introduction to hydrology and the physical processes operating in and on the planet earth. Topics of study will include ground and surface water, the hydrologic cycle, watershed models, groundwater recharge, geomorphology, tectonics, structural features, and geological processes relating to natural resource management, environmental processes and concerns. 3 semester credit hours. Physical Science Core Elective. Typically offered: Periodically.

ENVS 205 Environmental Science. A survey of environmental science with an emphasis on global concerns, biological and physical resources, resource use, conservation issues, and the interactions among science, society, and the environment. Prerequisite: "C" or better in: BIOL197, BIOL 198, CHEM 113, and CHEM 123. Cross listed BIOL 205/ENVS 205. 3 semester credit hours. Typically offered: Fall Term.

ENVS 210 OSHA Hazardous Waste Operation and Emergency Response Training. Forty classroom hours of training in recognition, evaluation, and proper work practices dealing with hazardous materials and wastes in compliance with 29CFR 1910.120. Students passing the course will receive a certificate renewable every year allowing them to work on sites in compliance with the federal statute. There will be an extra certification fee associated with the course. 1 semester credit hour. Typically offered: Spring Term. *Department Consent Required.*

ENVS 211 OSHA Hazardous Waste Operations and Emergency Response Training Refresher. Eight classroom hours of training in the recognition, evaluation, and proper work practices dealing with hazardous materials and hazardous waste evaluation. The class is for the annual recertification in compliance with 29CFR 1910.120 for students who have passed ENVS-210 or who have current valid certification through other institutions. There will be an extra certification fee associated with the course. Prerequisite: ENVS 210. 1 semester credit hour. Typically offered: Spring Term. *Department Consent Required.*

ENVS 291 Selected Topics. 1-4 semester credit hours. Typically offered: Periodically.

ENVS 300 Limnology. The study of the interrelations among the physical, chemical, and biological components of freshwater ecosystems. Includes taxonomy, adaptations, distributions, and abundance of aquatic organisms. Prerequisite: "C" or better in BIOL 229, CHEM 124 or CHEM 236. Cross listed ENVS / BIOL 300. 3 semester credit hours. Typically offered: Periodically.

ENVS 305 Environmental Toxicology. A study of the toxic effects of chemicals on human and ecological populations. Includes the physiological, genetic, and teratogenic effects of chemicals on humans and the study of biomagnification of chemicals through the food chain. Case studies and risk modeling using computers will be included to integrate theory and regulatory compliance. Prerequisite: "C" or better in BIOL 256 or BIOL 258. Cross listed with ENVS / BIOL 305. 3 semester credit hours. Typically offered: Periodically.

ENVS 398 Capstone Project. Projects (involving laboratory and field study) that integrate the principle and practice of environmental issues. The experience culminates in written and oral

presentation of the findings. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 3.*

Finance

FINA 120 Financial Literacy. This course provides students of all majors, concentrations and levels of study, strategies to achieve good spending and savings habits, along with an opportunity to share their knowledge with others in the outside community. Students will create a personal budget and statement of net worth, keep track of their spending and learn how to better manage credit card debt and learn how to use benefit and savings plans to help achieve future financial goals. This course has a service learning component. 2 semester credit hours. Typically offered: Fall and Spring Terms. 2 semester credit hours. Typically offered: Fall and Spring Terms.

FINA 220 Personal Financial Planning. . An introduction to personal financial planning. Topics covered include: time value of money, tax planning, cash management, credit cards, purchase of home, auto and health insurance, retirement and estate planning. 3 semester credit hours. Business Core Elective. Typically offered: Spring Term. 3 semester credit hours. Business Core Elective. Typically offered: Spring Term.

FINA 250 Introduction to Bloomberg System. The course will provide an introduction to the Bloomberg System. Students will learn how to navigate through the system to access the vast amount of data available through the application and will assist students in receiving Bloomberg certification. 1 semester credit hour. Prerequisite: FINA 300. 1 semester credit hour. Typically offered: Annually.

FINA 255 Equities and Portfolio Management Using Bloomberg. The course will provide an introduction to the using the Bloomberg System to evaluate equities and equity portfolios. Students will gain knowledge necessary for one of the Bloomberg certifications. 1 semester credit hour. Prerequisites: FINA 250, FINA300. 1 semester credit hour. Typically offered: Fall, Spring and Summer Terms.

FINA 297 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Typically offered: Periodically. Department Consent Required. Course Repeatable. Maximum number of units allowed 12. 2-6 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

FINA 300 Managerial Finance. An analysis of the functions of financial management in the decision-making process of the firm. Prerequisite: ACCT 112, MATH 115. 3 semester credit hours. Typically offered: Fall and Spring Terms. 3 semester credit hours. Typically offered: Fall and Spring Terms.

FINA 310 Money and Financial Markets. Study of money, the banking system, monetary theories, and relation of the monetary system to national income, employment, and price levels. Prerequisite: ECON 101, ECON 102. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

FINA 320 Investments. A framework useful to develop investment policy for individuals and institutions; security evaluation methods and portfolio management strategies are developed. Prerequisite: FINA 300. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

FINA 325 Derivatives. An examination of the pricing and use of options, futures, forwards and swaps in the financial markets. 3 semester credit hours. Prerequisite: FINA300. 3 semester credit hours. Typically offered: Spring Term.

FINA 330 Business and Economic Forecasting. Acquaints students with statistical forecasting methodologies, while placing special emphasis on the underlying assumptions. The emphasis is on time-series methods used for forecasting and includes techniques such as decomposition, smoothing, regression, and ARIMA modeling. (See MBA 613 in the graduate catalog). 3 semester credit hours. 3 semester credit hours.

FINA 335 Risk Management. This course will introduce students to risk management issues faced by all companies. The course will cover governance, types of risk, (market, credits, liquidity, operational, and reputational), how to calculate Value at Risk using simulation, portfolio Value at Risk, and Stress Testing. Prerequisite: FINA 300 and MGT 251 or BALT 301. 3 semester credit hours. Typically offered: Fall and Spring Terms.

FINA 340 Public Finance. This course examines the economics of the public sector, including the impact of the government budget on resource allocation, income distribution and economic stabilization; principles and problems of budget determination, including both tax and expenditure aspects; tax shifting and incidence; and fiscal and debt management policies. Prerequisite: ECON 101, ECON 202. 3 semester credit hours. 3 semester credit hours.

FINA 345 Fixed Income. This course will introduce students to international fixed income markets and debt securities. Topics covered include: interest rate measures, forwards, futures, duration and convexity, the yield curve, and yield spreads. Prerequisite: FINA 300 and MGT 251 or BALT 301. 3 semester credit hours. Typically offered: Fall and Spring Terms.

FINA 360 International Trade and Finance. Trade theory, trade barriers, balance of payments, exchange rates, open-economy macroeconomics. Prerequisite: ECON 101, ECON 310, and "C" or better in MATH 115. 3 semester credit hours. 3 semester credit hours.

FINA 370 Multinational Corporate Finance. Stresses the financial decision-making of a firm in an international setting. Covers international financial markets, exchange risk management, asset and liability management, and international banking. Prerequisite: ECON 101, ECON 102, ACCT 111. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

FINA 380 Advanced Managerial Finance. A continuation of Managerial Finance with a focus placed upon corporate financial decisions. The case approach is used to analyze various advanced finance-related topics. This is the capstone course for the Finance major. Prerequisite: FINA 300. 3

semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

FINA 391 Topics. Specially designed courses in various business topics to supplement the business curriculum. Prerequisite: Varies based upon the specific topic being explored. 3 semester credit hours. Course Repeatable. Maximum number of units allowed 99. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

FINA 395 Independent Study. Provides an opportunity for an advanced student in the major to pursue study in a field of business related interest. 1-3 semester credit hours. Department Consent Required. Course Repeatable. Maximum number of units allowed 99. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

FINA 397 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Department Consent Required. 2-6 semester credit hours. *Department Consent Required.*

Fine Arts

FNAR 100 Art Appreciation. Introduction to the visual arts through lectures, discussions and field trips. IAI F2 900. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall and Spring Terms.

FNAR 101 Fundamentals of Design. Emphasizes the knowledge and application of basic design principles of two-dimensional images in representational and abstract forms. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term.

FNAR 111 Drawing. Fundamental drawing from observation with emphasis on linear perspective and tonal modeling of the still life and human head. IAI ART 904. Fee \$30.00 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall and Spring Terms.

FNAR 120 Lettering and Layout – Foundational. Introduction to calligraphic lettering with a broad-nib pen. Explores a variety of designs and techniques in italic and related cursive styles. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term.

FNAR 121 Lettering and Layout – Italic. Introduction to calligraphic lettering with a broad-nib pen. Explores a variety of designs and techniques in italic and related cursive styles. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Spring Term.

FNAR 203 Ancient and Medieval Art. Photographic presentations of significant paintings, sculptures and buildings with emphasis on religious concepts. IAI F2 901; ART 901. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term.

FNAR 204 Renaissance to Modern Art. Pictorial survey of painting, sculpture and architecture in Western civilization with emphasis on religious concepts. IAI F2 902; ART 902. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Spring Term.

FNAR 205 Non-Western Art History. An survey of graphic design history covering the development of symbols, typography, advertising, books, posters, the Bauhaus and the 20th Century avante garde influence on design. 3 semester credit hours.

FNAR 210 Figure Drawing. Introduction to drawing the human figure from observation. IAI ART 906. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

FNAR 225 Art for Elementary Teachers. A methods and media lecture/studio course for elementary education students in the teaching of art to children from grades K-6. The course will identify art content, art media, and instructional pedagogy for including art at the elementary level. Prerequisite: Enrollment in the Elementary Education program or permission of the instructor. 3 semester credit hours. Typically offered: Fall Term.

FNAR 240 Printmaking: Intaglio(Etching). A studio course emphasizing the etching medium. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Spring Term, Even Years.

FNAR 241 Printmaking: Relief. Introduction to the woodcut and relief processes. 3 semester credit hours. Typically offered: Fall Term, Even Years.

FNAR 242 Printmaking: Silk-Screen. A studio course on silk-screen printing. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term, Odd Years.

FNAR 243 Printmaking: Lithography. A studio course utilizing the traditional technique of printing on Limestones. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term, Odd Years.

FNAR 250 Oil Painting. An introductory studio course emphasizing color mixing as it relates to traditional representation. IAI ART 911. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Spring Term.

FNAR 291 Topics. Focuses on various topics relating to the needs of the students and recent events and/or topics of interest. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Periodically.

FNAR 292 Black and White Photography. Foundations of photographic theory, shooting, and print developing. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term.

FNAR 293 Digital Photography. Emphasis on shooting and manipulation of digital camera imagery. 3 semester credit hours. Fine Arts Core Elective.

FNAR 294 Computer Art. Creation of artwork using the computer as medium. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Periodically.

FNAR 295 Educational Travel. Guided tour of religious and cultural monuments in various countries. Between semesters. 1-2 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

FNAR 296 Science Meets Art. The relationship between science and art will be studied in 8 two-week units to help science majors develop illustration skills and an appreciation for qualitative empirical evidence. Prerequisites: completion of one life science course and one physical science course. 3 semester credit hours. Fine Arts/Music Core Elective. Typically offered: Spring Term.

FNAR 305 Advanced Painting. Representation of the human figure in oil painting while concentrating on compositional devices used throughout the history of art. Prerequisite: FNAR 250. 3 semester credit hours. Fine Arts Core Elective.

FNAR 311 Advanced Drawing. An intensive investigation into the use of value and the compositional elements of picture making. Emphasis will be placed on the methods of representation as evidenced by the traditions of past masters. Prerequisite: FNAR 111. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Periodically.

FNAR 340 Advanced Studio Course: Intaglio. Advanced study in the medium of etching. Prerequisite: FNAR 240. 3 semester credit hours.

FNAR 360 Senior Seminar: Professional Portfolio. The students will analyze the job markets and prepare analyses of current issues in the performing arts. Analyses of demographics affecting the operations and organization of art programs in the United States will be studied. Students will be required to create a portfolio of personal data to prepare for job searches, prepare for mock interviews and present exhibition of works. Prerequisite: Junior Standing 3 semester credit hours. Fine Arts Core and Writing Intensive. Typically offered: Spring Term.

FNAR 381 Advanced Studio I. An advanced studio course that focuses on advanced issues in art making related to medium and content. The instructor may also introduce a theme for the course to further influence student work. Prerequisite: Any 100 or 200 level studio course. 3 semester credit hours. Typically offered: Fall and Spring Terms.

FNAR 382 Advanced Studio II. An advanced studio course that focuses on advanced issues in art making related to medium and content. Students develop individual mastery in form and chosen subject matter. Prerequisite: Advanced Studio I (FNAR 381). 3 semester credit hours. Typically offered: Fall and Spring Terms.

FNAR 383 Advanced Studio III. An advanced studio course that focuses on advanced issues in art making related to medium and content. Students continue to develop individual mastery in form and chosen subject matter. Prerequisite: Advanced Studio II (FNAR 382) 3 semester credit hours. Typically offered: Fall and Spring Terms.

FNAR 384 Advanced Studio IV: Senior Exhibit. An advanced studio course that focuses on advanced issues in art making related to medium and content. Students focus their efforts on compiling art for their senior exhibit. Prerequisite: Advanced Studio III (FNAR 383). 3 semester credit hours. Typically offered: Fall and Spring Terms.

FNAR 391 Topics. Focuses on various topics relating to the needs of the students and recent events and/or topics of interest. 1-3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

FNAR 395 Independent Study. A course designed to provide students with individual and focused coursework in some area of studio art. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

FNAR 397 Internship. A practical course intended to give those students who are qualified an opportunity to do some observing - either in a classroom or privately - or to perform any practical job associated with his or her field under the supervision of the faculty. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

FNAR 398 Senior Seminar: Art Criticism. This is a writing intensive course that focuses on the methods, theories, and imagery that contribute to the art of writing art criticism. Much emphasis will be placed on the act of interpretation. This course is also intended towards the fine artist who is serious about developing a personal artistic vision. 3 semester credit hours. Typically offered: Fall Term. *Course Repeatable. Maximum number of units allowed 99.*

French

FREN 291 Topics in French Language and Literature. Intermediate-level study of topics in French literature, culture and civilization. 1-3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

FREN 391 Topics in French Language and Literature. Advanced-level study of topics in French literature, culture and civilization. 1-3 semester credit hours.

Gender Studies

GENS 100 Gender and Literature. Introduction to gender issues in a variety of disciplines and exploration of international issues in the human social development that stem from the ways that gender is constructed, institutionalized, and exacted in the contemporary world. Emphasis will be placed on understanding the biological, social and cultural bases of gender differentiation as they are understood and acted upon in our own and in other societies. Cross listed with LITR 281. 3 semester credit hours. Literature Core Elective.

Geography

GEOG 105 Physical Geography. An introduction to hydrology and the physical processes operating in and on the planet earth. Topics of study will include ground and surface water, the hydrologic cycle, watershed models, groundwater recharge, geomorphology, tectonics, structural features, and geological processes relating to natural resource management, environmental processes and concerns. 3 semester credit hours. Physical Science Core Elective. Typically offered: Periodically.

GEOG 106 Geography and Cartography. An interdisciplinary offering that covers basic physical geography before moving to the study of cartography and then to cultural geography. Students will demonstrate an understanding of human population growth and its impact on the earth's resources, including food, energy, physical materials, water, and landscapes; the geography of resource availability and the limits of the earth as producer of resources. They will also be required to use computer software to explore connections between geography and contemporary political, social, and economic issues. 3 semester credit hours.

GEOG 107 Earth and Space Science. A physical science laboratory course that includes the study of key principles of Earth and Space Science through the investigation of real world problems. The earth science component includes the study of large-scale dynamic forces, events, and processes that affect the Earth's land, water, and atmospheric systems, identification and evaluation of the uses of the Earth's resources, and the processes involved in the life cycle. The space science component focuses on concepts that explain the composition, structure of and changes in the universe and Earth's place in it. By working and studying within the context of a real world problem, students learn how scientific principles are used and applied in everyday life. IAI P1 909. 4 semester credit hours. Typically offered: Spring Term.

Global Studies

GBLS 101 Introduction to Global Studies. This interdisciplinary course will survey and interrogate the major events and processes such as colonialism, imperialism and globalization that shape and inform the contemporary world. From the perspectives of selected regions, Latin America, non-Latin America, the Middle East and the Mediterranean, the course will explore the 21st century challenges they face and the solutions they offer for preserving and inhabiting the new, global, interdependent – world. 3 semester credit hours. Global Studies Core Elective.

GBLS 102 Global Studies II. This course introduces students to research methods in various academic disciplines that are essential for conducting research in Global Studies topics. Students research topics related to global environmental issues. 3 semester credit hours. Global Studies Core Elective.

GBLS 200 American Studies. This course uses elements of fiction and non-fiction in the study of various topics of race, class and gender in American Studies. Cross listed with HIST 200. 3 semester credit hours. Typically offered: Fall Term.

GBLS 202 Theories in Global Studies. Course examines the major theoretical concepts in the field of Global Studies such as capitalism, communism, socialism, transnationalism and globalization. Cross listed as GBLS 202/302. 3 semester credit hours. Global Studies Core Elective. Typically offered: Fall Term.

GBLS 220 Mediterranean World. Studies the ancient cultures located around the Mediterranean Sea and the contributions they made to the development of western civilizations to about 500 A.D. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" as reflected in religion, art, philosophy, and social, political, and economic institutions. 3 semester credit hours. Typically offered: Spring Term.

GBLS 300 Junior Seminar: Topics in Global Studies. Junior year seminar which takes as its focus one topic of global significance (e.g. global poverty, AIDS, development). Topic varies by year and instructor. 3 semester credit hours. Typically offered: Fall Term.

GBLS 301 Advanced U. S. Literary and Cultural Studies. Explores critical questions, analytical categories, and common methodologies that structure the practice of U. S. literary and cultural studies. Students will work with primary literary texts as well as secondary sources and theoretical works. Students will also complete a research paper. Prerequisite: LITR 100 and GBLS 200. 3 semester credit hours. Global Studies Core Elective. Typically offered: Spring Term.

GBLS 302 Theories in Global Studies. Course examines the major theoretical concepts in the field of Global Studies such as capitalism, communism, socialism, transnationalism and globalization. Cross listed as GBLS 202/302. 3 semester credit hours. Global Studies Core Elective. Typically offered: Fall Term.

GBLS 391 Global Studies Topics. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

GBLS 395 Independent Study. Independent study of a global studies theme in consultation with department professors. 3 semester credit hours. *Department Consent Required.*

GBLS 399 Senior Thesis. Senior capstone experience. Prerequisite: GBLS 101 and GBLS 102 or senior standing. 3 semester credit hours. Typically offered: Spring Term.

Graphic Arts and Design

GAD 205 History of Graphic Design. 3 semester credit hours. Typically offered: Spring Term.

GAD 230 Typography. This course introduces typography as a vital element of visual communications. Typographic structure, terminology, expression, and strategy will be explored from the single letterform to an entire page layout. This studio course uses both computer and hands on skills to address the effective use of typography. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

GAD 260 Graphic Design I. This course introduces students to the basic principles and elements of graphic design. Students will explore visual problem-solving strategies in print media, and practice the industry standard graphic design programs such as Adobe Photoshop and Illustrator CS5 for design projects. 3 semester credit hours. 3 semester credit hours.

GAD 300 Computer Animation. This course introduces students to the essential techniques and procedures of computer animation. Students will learn and create storyboards, sequential compositions, and web animations by using Flash Professional CS5, the industry standard of web animation and interactive application. 3 semester credit hours. 3 semester credit hours.

GAD 301 Graphic Arts Practicum. Students create original graphic arts projects for presentation at a student or professional conference. Prerequisite: completion of GAD 360 and consent of the Instructor. Typically offered: Periodically. *Department Consent Required.*

GAD 360 Graphic Design II. A continuation of Graphic Design I. The student will use painting and photo-editing programs and employ analytical skills for purposes of creation and critical appraisal. Prerequisite: GAD 260. \$50 fee. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

Health Science

HLSC 200 Applied Exercise Science. For PE Majors only. This course covers key exercise science core principles from exercise physiology, kinesiology, biomechanics, and preventive health related fitness. Special emphasis will be given to the scientific principles and importance of maintaining a physically active lifestyle. A secondary emphasis will be to develop a healthy lifestyle for others through lifetime health related physical activity. 4 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

HLSC 291 Medical Terminology. Introduction of medical terms for each body system and specialty medical fields. Includes word roots, prefixes and suffixes commonly encountered in the health care field. 2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

HLSC 300 Practicum Experience in Veterinary Medicine. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

HLSC 301 Practicum Experience: Medicine. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite: Instructor Consent, 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

HLSC 302 Practicum Experience – Dentistry. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

HLSC 303 Practicum Experience – Occupational Therapy. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine

University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

HLSC 305 Practicum Experience – Podiatry. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

HLSC 307 Practicum Experience – Physical Therapy. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

HLSC 309 Practicum Experience – Optometry. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus] 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

HLSC 310 Practicum Experience - Chiropractic. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

HLSC 321 Fitness Testing. Laboratory and field-based testing of selected physiological parameters of the human. Exercise leadership principles and skills are emphasized. Fall. Prerequisite: Must be accepted into the 4 + 1 Clinical Exercise Physiology graduate program to register. Cross listed with EXPH 521. 1 semester credit hour. *Department Consent Required.*

HLSC 322 EKG Lab. Practice in the measurement and interpretation of the 12-lead EKG: normal, changes with disease, changes with exercise and stress testing. Prerequisite: HLSC 321/EXPH 521. Cross listed as HLSC 322/EXPH 522 . 1 semester credit hour. Typically offered: Spring Term.

HLSC 360 Advanced Cardiovascular and Respiratory Physiology. In depth study of the normal functioning of the cardiovascular and respiratory systems. Emphasis is placed on the acute effects of exercise as well as the adaptations that occur as a result of exercise. Prerequisite: BIOL 258. Cross listed with EXPH 560. 3 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

HLSC 361 Cardiopulmonary Pathophysiology and Prevention. Study of the disease and progression of cardiovascular and respiratory system diseases. Programs for primary and secondary prevention will be discussed. Prerequisite: HLSC 360/EXPH 560. Cross listed as HLSC 361/EXPH 561. 3 semester credit hours. Typically offered: Spring Term.

HLSC 368 Exercise Physiology. Provides an in-depth overview of how the body's physiological, hormonal, and biochemical systems acutely and chronically respond to various forms of physical activity and environmental conditions in untrained and trained individuals. Prerequisite: BIOL 258 or a human physiology course. Cross listed with BIOL 358. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

HLSC 380 Current Topics in Exercise Physiology. An introduction to the research literature in exercise physiology with special emphasis on research design, statistical analysis, and epidemiology, providing the basis for literature discussion in other courses. Other topics relevant to the exercise physiology program will be addressed in this forum. Not a science elective for HLSC majors. Cross listed with EXPH 580. 2 semester credit hours. Writing Intensive Course. Typically offered: Fall Term. *Department Consent Required.*

HLSC 389 Health Sciences Research. Students desiring more intensive original research, with extensive requirements for laboratory or clinical facilities, may use this as an extension of practicum, internship and other courses in this section. 1-3 semester credit hours. *Department Consent Required.*

HLSC 390 Internship. Practical experience in exercise physiology in various settings such as Villa St. Benedict, hospitals, rehabilitation centers, YMCAs, colleges and corporations under the supervision of an experienced on-site professional. Internships available in wellness/fitness, rehabilitation, or research. 1-2 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

HLSC 391 Selected Topics in Health Sciences. Special courses in the health fields with which the student has not become aquatinted in formal course work. May be an extension of or a supplement to material previously encountered, or lectures from a completely new area. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

HLSC 392 Exercise Biochemistry and Metabolism. Principles of biochemistry and metabolism of biomolecules as they pertain to rest and exercise. Interconversion of nutrients and their usage, integration of hormones and their metabolic effects on each organ system will be emphasized. Prerequisite: a biochemistry course. Cross listed As HLSC 392/EXPH 591/NTR 591. 3 semester credit hours. Typically offered: Spring Term.

HLSC 395 Independent Study. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

History

HIST 101 Western Civilization to 1715. An integrated survey of the development and interaction of the centers of civilization throughout the Western world to 1715. IAI H2 901. 3 semester credit hours. Typically offered: Periodically.

HIST 111 American History to 1865. Covers the Colonial era, the revolutionary age, internal growth of the Republic, and causes of the Civil War. IAI H2 904; S2 900; HST 911. 3 semester credit hours. Typically offered: Fall Term.

HIST 112 American History since 1865. Covers the industrialization of America; the organization of labor; the development of imperialism; the growth of foreign policy. IAI H2 905; S2 901; HST 912. 3 semester credit hours. Typically offered: Spring Term.

HIST 200 Introduction to American Studies. This course uses elements of fiction and non-fiction in the study of various topics of race, class and gender in American Studies. (Topics vary). Cross listed with GBLS 200 3 semester credit hours. Typically offered: Fall Term.

HIST 203 Historiography. Introduction to the methodology and practice of history and to some of the great historians. Includes an emphasis on world history. Prerequisite: HIST 111, HIST 112. 3 semester credit hours. Writing Intensive Course.

HIST 205 American Economic History. Analysis of the growth of the U.S. economy and the role of government, business and labor. 3 semester credit hours.

HIST 206 Modern European Economic History. Analyzes the evolution of manufacturing, agriculture, demography and international trade of Europe since 1500. 3 semester credit hours.

HIST 210 Africa to 16th Century. Surveys early African civilization and formation and development of major kingdoms. 3 semester credit hours.

HIST 211 Modern Africa. Surveys the major historical and cultural developments in Africa from the 19th century to the present. 3 semester credit hours.

HIST 212 Colonial Latin America, 1492-1821. Surveys the pre-colonial societies (Olmec, Toltec, Aztec, Maya, Inca) that shaped the Americas prior to the coming of the Europeans, the European conquest of the Americas, the establishment of colonial societies in the Americas, through the 19th century wars of independence and ending with the demise of the Spanish empire in the Americas, the Cuban-Spanish War (1895-1898). 3 semester credit hours.

HIST 213 Contemporary Latin America, 1898-2000. Beginning with the creation of independent nation states in Latin America, this course will survey the social processes, issues and events that have given rise to contemporary Latin America as well as the impact of Latin America on the wider world. 3 semester credit hours.

HIST 214 The African Diaspora in Latin America, 1492-1899. An interdisciplinary course that explores the African diaspora in Latin American from the conquest of the Americans by Europeans through the end of the century. Examines how Africans and their descendants in conflict and in concert with Native Americans, Europeans and Asians have created new cultures, religions and societies in the Americas. 3 semester credit hours.

HIST 215 The African Diaspora in Latin America, 1899-2000. An interdisciplinary course that explores the experiences of people of African descent in Latin America focusing on the fight for independence of Latin American and the continuing struggle for economic and social equality in contemporary Latin America. 3 semester credit hours.

HIST 220 The Mediterranean World. Studies the ancient cultures located around the Mediterranean Sea and the contributions they made to the development of western civilizations to about 500 A.D. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" as reflected in religion, art, philosophy, and social, political, and economic institutions. IAI H9 900. 3 semester credit hours.

HIST 223 Constitutional History of England. The growth and change of the English constitution from late Roman times to the present. 3 semester credit hours.

HIST 230 The Baptism of Europe. Studies the development and Christianization of Europe in the Middle Ages (500-1500 A.D.). Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" through social structures (religious, political, economic) and through the interactions and/or conflicts between people and cultures (Eastern and Western Christianity; Christianity, Judaism, Islam). 3 semester credit hours. 3 semester credit hours.

HIST 240 Converging Hemispheres. Studies the increasingly global encounter of peoples, ideas, and cultures from the Age of Exploration (from 1400 A.D.) into the 20th century. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the shift in emphasis from "person in community" the values of freedom, equality, and responsibility. Examines the construction of the modern era focusing on scientific revolutions, economic transformation, religious reformations, and revolution, resistance and republicanism. 3 semester credit hours.

HIST 242 19th Century Church History. Studies the European Church's reaction to the French Revolution and scientific theories and the social questions of the 19th century. Analyzes the roots of contemporary developments in the church. 3 semester credit hours. 3 semester credit hours.

HIST 243 20th Century Church History. Analyzes the impact of 19th century developments, the world wars, decolonization, intellectual trends, and Vatican II's origins and results. 3 semester credit hours. 3 semester credit hours.

HIST 251 The French Revolution in the Wider World. Examines the intellectual and political dimensions of the French Revolution as well as the intellectual and political ramifications of that revolution in the wider world. The course will focus on the French Revolution as a generative factor

in the wars of independence in the Americas, the Haitian Revolution, the European revolutions of 1848 and the Paris Commune. 3 semester credit hours.

HIST 252 19th Century Europe. Covers the political, military, economic, social, and cultural development of Europe from the French Revolution to 1900. 3 semester credit hours.

HIST 253 20th Century Europe, 1900-Present. Covers the political, military, economic, social, and cultural development of Europe, including the Soviet Union, from 1900 to the present. 3 semester credit hours.

HIST 254 Modern Eastern Europe. Survey of the cultural and historical development of the peoples of Eastern Europe. Covers nationalism, independent states in the inter-war period. Communist control of Eastern Europe, collapse of communism, and the struggle for democracy. 3 semester credit hours.

HIST 255 Modern Russia. Surveys Russia in the 20th century, including the rise of the Communist Party, the 1917 revolution, Stalinism, de-Stalinization, Gorbachev, perestroika, and the break-up of the Soviet Union. 3 semester credit hours.

HIST 257 20th Century Social and Political Movements in a Global Context. Explores the major social and political movements that have shaped the world in the 20th century, such as the Mexican, Russian, Chinese and Cuban Revolutions, populist, revolutionary nationalist and liberation movements in Africa and Latin America as well as the contemporary civil rights and women's movements in the United States. 3 semester credit hours.

HIST 260 Women in American Society. Examines women's roles in American life and the ways in which they have shaped society, culture and politics. Topics include the major experience of women from the colonial era to the present; gender ideology and the changing images of women; the diversity of race, class and religion. 3 semester credit hours.

HIST 261 Revolutionary and Jeffersonian Eras: 1763-1828. Analyzes the causes of the Revolution, origins of the Constitution and early development of the new nation. 3 semester credit hours.

HIST 262 Antebellum America, 1824-1877. This course examines the economic, political and cultural changes in the United States, culminating in the Civil War. The primary focus of the course is slavery and the battle to dismantle the peculiar institution. 3 semester credit hours.

HIST 263 20th Century America to World War II. Analyzes the impact of the later industrialization, reform movements, World War I, Depression and New Deal, World War II. 3 semester credit hours.

HIST 264 America Since World War II. Discusses the impact of World War II, the Cold War, the affluent society, and contemporary society. 3 semester credit hours.

HIST 265 African-American History. Surveys the major events in Black history from 1619 to present. Topics include origins of slavery, Blacks in the American Revolution, Civil War and Reconstruction, Harlem Renaissance, Depression, and the modern Civil Rights movement. 3 semester credit hours.

HIST 266 Vietnam at War. An intensive, holistic study of the United States' involvement in South East Asia. The course examines the war from the Vietnamese, French and American perspectives, taking into account Vietnamese culture and history, French colonization, and Cold War ideology and strategy. The course also addresses the anti-war movement and the influence of the counter-culture on US policy. 3 semester credit hours.

HIST 267 Diplomatic History of the United States. The evolution of American foreign policy, emphasizing the domestic and international background of the U.S. expansion from the American Revolution to America's rise as a great power. 3 semester credit hours.

HIST 268 Colonial America to 1763. Course examines the early European settlement of North America and the economic, political and social consequences of colonization for Europe, Africa and the Native Americans. 3 semester credit hours.

HIST 270 Labor and the State, 1877-Present. Examines the growth of industrial America and the struggle of workers to organize. The course follows the labor movement in and its various constituencies, from the AFL-CIO to more radical groups such as the IWW, and their impact on American policy and culture. 3 semester credit hours.

HIST 271 Modern Middle East. An intensive study of 19th and 20th century Middle-East. 3 semester credit hours.

HIST 272 Early Islamic Middle East, 500-1258. The first of a three course sequence studying the history of the Middle East. The course covers the pre-Islamic Middle East including the conflict between the Eastern Roman and Sasanian empires and focuses on the development of an Islamic civilization that spread throughout the Middle East, North Africa and into Spain under the rule of the two most important Islamic dynasties of this period, the Umayyads and the Abbasids. Relations with neighboring regions including Europe are highlighted including the crusades which began in the late eleventh century and continued in Syria/Palestine through the 13th century. 3 semester credit hours. Typically offered: Spring Term.

HIST 273 Gun Powder Empires: Middle East, 1200-1800. Introduction to the history of the Islamic world in the half-millennium before the rise of Europe following a chronological and thematic frame. Beginning with the Mongol invasions of the 13th century then the emergence of Turkish war bands of the 14th and 15th centuries while the era of bubonic plague (the 'Black Death') in the middle of the 14th century influences economic and social policies. The final chronological segment is the "imperial age" (from its zenith in the late 16th century to its passing the 18th). Cross listed with HIST 373 3 semester credit hours. Typically offered: Spring Term.

HIST 280 The World of Alexander the Great. Course examines the major economic, cultural and political developments during the age of Alexander the Great. The course places Alexander within a global context and also explores the enduring legacy of the period in art, architecture and the development of the ancient world. 3 semester credit hours. Typically offered: Fall Term, Even Years.

HIST 281 Survey of East Asia, 1600-Present. An introductory survey of the modern history of East Asia, examining the efforts of traditional states, particularly China and Japan, to respond to Western

intrusion into the region after 1600. Focus on social and cultural problems created by attempts to modernize yet defend tradition and on the differing results of Chinese and Japanese approaches. Offered yearly, spring term. 3 semester credit hours. Typically offered: Spring Term.

HIST 291 Topics. A study of various persons, events, trends, and institutions in European, American or non-Western History. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

HIST 292 Selected Topics: European/American/Non-Western. A study of various persons, events, trends, and institutions in European, American or non-Western History. 1-3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

HIST 295 Independent Study. Designed to encourage the superior student to study in-depth and to research an area beyond the undergraduate course offerings. 3 semester credit hours. *Department Consent Required.*

HIST 303 Historiography. Introduction to the methodology and practice of history and to some of the great historians. Includes an emphasis on world history. Prerequisite: HIST 111, HIST 112 3 semester credit hours. Writing Intensive Course.

HIST 305 American Economic History. Analysis of the growth of the U.S. economy and the role of government, business and labor. 3 semester credit hours.

HIST 306 Modern European Economic History. Analyzes the evolution of manufacturing, agriculture, demography and international trade of Europe since 1500. 3 semester credit hours.

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HIST 313 Contemporary Latin America, 1898-2000. Beginning with the creation of independent nation states in Latin America, this course will survey the social processes, issues and events that have given rise to contemporary Latin America as well as the impact of Latin America on the wider world. 3 semester credit hours.

HIST 314 The African Diaspora in Latin America, 1492-1899. An interdisciplinary course that explores the African diaspora in Latin American from the conquest of the Americans by Europeans through the end of the century. Examines how Africans and their descendants in conflict and in

concert with Native Americans, Europeans and Asians have created new cultures, religions and societies in the Americas. 3 semester credit hours.

HIST 315 The African Diaspora in Latin America, 1899-2000. An interdisciplinary course that explores the experiences of people of African descent in Latin America focusing on the fight for independence of Latin American and the continuing struggle for economic and social equality in contemporary Latin America. Prerequisite: Social Science or History major 3 semester credit hours.

HIST 320 The Mediterranean World. Studies the ancient cultures located around the Mediterranean Sea and the contributions they made to the development of western civilizations to about 500 A.D. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" as reflected in religion, art, philosophy, and social, political, and economic institutions. 3 semester credit hours.

HIST 323 Constitutional History of England. The growth and change of the English constitution from late Roman times to the present. 3 semester credit hours.

HIST 342 19th Century Church History. Studies the European Church's reaction to the French Revolution and scientific theories and the social questions of the 19th century. Analyzes the roots of contemporary developments in the church. Prerequisite: Social Science or History major 3 semester credit hours.

HIST 343 20th Century Church History. Analyzes the impact of 19th century developments, the world wars, decolonization, intellectual trends, and Vatican II's origins and results. Prerequisite: Social Science or History major 3 semester credit hours.

HIST 351 The French Revolution in the Wider World. Examines the intellectual and political dimensions of the French Revolution as well as the intellectual and political ramifications of that revolution in the wider world. The course will focus on the French Revolution as a generative factor in the wars of independence in the Americas, the Haitian Revolution, the European revolutions of 1848 and the Paris Commune. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 353 20th Century Europe, 1900 - Present. Covers the political, military, economic, social, and cultural development of Europe, including the Soviet Union, from 1900 to the present. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 354 Modern Eastern Europe. Survey of the cultural and historical development of the peoples of Eastern Europe. Covers nationalism, independent states in the inter-war period. Communist control of Eastern Europe, collapse of communism, and the struggle for democracy. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 355 Modern Russia. Surveys Russia in the 20th century, including the rise of the Communist Party, the 1917 revolution, Stalinism, de-Stalinization, Gorbachev, perestroika, and the break-up of the Soviet Union. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 357 20th Century Social and Political Movements in a Global Context. Explores the major social and political movements that have shaped the world in the 20th century, such as the Mexican, Russian, Chinese and Cuban Revolutions, populist, revolutionary nationalist and liberation movements in Africa and Latin America as well as the contemporary civil rights and women's movements in the United States. 3 semester credit hours.

HIST 360 Women in American Society. Examines women's roles in American life and the ways in which they have shaped society, culture and politics. Topics include the major experience of women from the colonial era to the present; gender ideology and the changing images of women; the diversity of race, class and religion. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 361 Revolutionary and Jeffersonian Eras, 1763 -1828. Analyzes the causes of the Revolution, origins of the Constitution and early development of the new nation. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 362 Antebellum America, 1824-1877. This course examines the economic, political and cultural changes in the United States, culminating in the Civil War. The primary focus of the course is slavery and the battle to dismantle the peculiar institution. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 363 20th Century America to World War II. Analyzes the impact of the later industrialization, reform movements, World War I, Depression and New Deal, World War II. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 364 America Since World War II. Discusses the impact of World War II, the Cold War, the affluent society, and contemporary society. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 365 African-American History. 3 semester credit hours. Typically offered: Spring Term.

HIST 367 Diplomatic History of the United States. The evolution of American foreign policy, emphasizing the domestic and international background of the U.S. expansion from the American Revolution to America's rise as a great power. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 368 Colonial America to 1789. Course examines the early European settlement of North America and the economic, political and social consequences of colonization for Europe, Africa and the Native Americans. 3 semester credit hours. Typically offered: Spring Term.

HIST 370 Labor and the State, 1877-Present. Examines the growth of industrial America and the struggle of workers to organize. The course follows the labor movement in and its various constituencies, from the AFL-CIO to more radical groups such as the IWW, and their impact on American policy and culture. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 371 Modern Middle East. 3 semester credit hours.

HIST 372 Early Islamic Middle East, 500-1258. The first of a three course sequence studying the history of the Middle East. The course covers the pre-Islamic Middle East including the conflict between the Eastern Roman and Sasanian empires and focuses on the development of an Islamic civilization that spread throughout the Middle East, North Africa and into Spain under the rule of the two most important Islamic dynasties of this period, the Umayyads and the Abbasids. Relations with neighboring regions including Europe are highlighted including the crusades which began in the late eleventh century and continued in Syria/Palestine through the 13th century. 3 semester credit hours. Typically offered: Spring Term.

HIST 373 Gun Powder Empires: Middle East, 1200-1800. Introduction to the history of the Islamic world in the half-millennium before the rise of Europe following a chronological and thematic frame. Beginning with the Mongol invasions of the 13th century then the emergence of Turkish war bands of the 14th and 15th centuries while the era of bubonic plague (the 'Black Death') in the middle of the 14th century influences economic and social policies. The final chronological segment is the "imperial age" (from its zenith in the late 16th century to its passing the 18th). Cross listed with HIST 273. 3 semester credit hours. Typically offered: Spring Term, Even Years.

HIST 380 The World of Alexander the Great. Course examines the world of the Mediterranean 360 BC-320 BC and the rise and fall of Alexander the Great. Course focuses on the cultural, economic, political and social history of the period. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

HIST 391 Topics. Directed readings and research to be used in discussions pertaining to specific topics in European, American or non-Western history. Prerequisite: Social Science or History major, Junior or Senior standing. 3 semester credit hours. Writing Intensive Course. *Department Consent Required.*

HIST 395 Independent Study. Designed to encourage the superior student to study in-depth and to research an area beyond the undergraduate course offerings. Prerequisite: Social Science or History major. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

HIST 397 Internship. Practical experiences in a related career field under the supervision of the History Department. Prerequisite: 3.00 GPA, Social Science or History major. 3 semester credit hours. *Department Consent Required.*

HIST 399 Senior Thesis. Senior capstone experience. Prerequisite: GBLS 101 and GBLS 102 or senior standing. 3 semester credit hours. Typically offered: Spring Term.

Honors

HNRS 190 First-Year Colloquium I. Students develop communications, research, and leadership skills while reading great works of literature. Passing HNRS190 meets the University's WRIT 101 requirement. 3 semester credit hours. *Department Consent Required.*

HNRS 191 First-Year Colloquium II. Students develop communications, research, and leadership skills while reading great works of literature. Passing HNRS 191 meets the University's WRIT 102 and SPCH 110 requirements. 3 semester credit hours. *Department Consent Required.*

HNRS 195 Organizational and Group Dynamics. Presents leadership theory and helps students understand themselves as leaders. Topics include group dynamics, assertiveness, trust and risk-taking, problem-solving, delegation, and motivation. 3 semester credit hours. *Department Consent Required.*

HNRS 220 The Mediterranean World. Studies the ancient cultures located around the Mediterranean Sea and the contributions they made to the development of western civilizations to about 500 A.D. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" as reflected in religion, art, philosophy, and social, political, and economic institutions. IAI H9 900. 3 semester credit hours.

HNRS 230 The Baptism of Europe. Studies the development and Christianization of Europe in the Middle Ages (500-1500 A.D.). Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" through social structures (religious, political and economic) and through the interactions and/or conflicts between people and cultures (Eastern and Western Christianity, Judaism and Islam). 3 semester credit hours.

HNRS 291 Electronic Portfolio Workshop. This course is a workshop designed to enable students to compile the electronic portfolio that is required for the Scholars Program. 1 semester credit hour. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 1.*

HNRS 294 Creativity, Art and Culture. A critical examination of classic and contemporary works of art, generating theories concerning artistic creativity. Focus is on works of art and the culture from which art comes. Passing HNRS 294 meets the University's Fine Arts (FNAR) core elective requirement. 3 semester credit hours. Fine Arts Core Elective. *Department Consent Required.*

HNRS 320 Converging Hemispheres. Studies the increasingly global encounter of peoples, ideas, and cultures from the Age of Exploration (from 1400 A.D.) into the 20th century. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the shift in emphasis from "person in community" to "individual and society" in terms of social identity and the values of freedom, equality, and responsibility. Examines the construction of the modern era, focusing on scientific revolutions, economic transformations, religious reformations, and revolutions, resistance, and republicanism. 3 semester credit hours.

HNRS 393 Global Interdependence. Upper-level study of political themes, with special attention to the 20th century. Passing HNRS 393 meets the University's Political Science / Anthropology (PLSC / ANTH) core elective requirement as well as the HUMN 250 Contemporary World requirement. 3 semester credit hours. Psychology/Sociology Core Elec.

HNRS 395 Independent Study. Students with interest in independent study of topics not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval based on

academic appropriateness and availability of resources. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

HNRS 397 Internship. Practical experiences in a prospective career field under the supervision of the Scholars Program. Prerequisite: Approval of Scholars Program Director. 3 semester credit hours. *Department Consent Required.*

Humanities

HUMN 100 Critical Reasoning. Discussion sessions on gaining critical understanding of readings in the first-year seminar. Integrates critical thinking and study strategies in a meaningful context. Emphasis on: analyzing, synthesizing, and evaluating terminology, concepts and arguments. 1 semester credit hour. *Department Consent Required.*

HUMN 200 Climate Change – Semester Interdisciplinary Course. A Meta Course taught by instructors participating in the Climate Change Semester and open only to those students enrolled in participating classes. Course starts mid-semester and covers varied topics related to climate change. A service learning component is included. 2 semester credit hours. *Department Consent Required.*

HUMN 201 Climate Change: Interdisciplinary Seminar. A Meta Course taught by instructors participating in the Climate Change Semester and open only to those students enrolled in participating classes. Course starts mid-semester and covers varied topics related to climate change. A service learning component is included. 1 semester credit hour.

HUMN 210 Cultural Heritage Seminar. This seminar course is designed around the great books and texts of the Benedictine, Judeo-Christian and Abrahamic tradition(s). It can provide HUMN 220, HUMN 230 or HUMN 240 Humanities credit for transfer students only. Prerequisite: Must be a transfer student. 3 semester credit hours. Typically offered: Fall, Winter and Summer Terms.

HUMN 220 The Mediterranean World. Studies the ancient cultures located around the Mediterranean Sea and the contributions they made to the development of western civilizations to about 500 A.D. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" as reflected in religion, art, philosophy and social, political and economic institutions. IAI H9 900. 3 semester credit hours.

HUMN 230 The Baptism of Europe. Studies the development and Christianization of Europe in the Middle Ages (500-1500 A.D.). Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" through social structures (religious, political, economic) and through the interactions and/or conflicts between people and cultures (Eastern and Western Christianity, Judaism and Islam). 3 semester credit hours.

HUMN 240 Converging Hemispheres. Studies the increasingly global encounter of peoples, ideas, and cultures from the Age of Exploration (from 1400 A.D.) into the 20th century. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the shift in emphasis from "person in community" the values of freedom, equality, and responsibility. Examines the

construction of the modern era focusing on scientific revolutions, economic transformation, religious reformations and revolution, resistance and republicanism. 3 semester credit hours.

HUMN 250 The Contemporary World. Drawing upon the resources of the Catholic and Benedictine traditions, this course examines a variety of interpretations of the current world situation in light of the theme "person in community." Have the notions of person and community changed, or are they being changed through current political, economic, cultural and technological challenges? Must have completed over 60 credit hours. 3 semester credit hours. Writing Intensive Course.

HUMN 291 Topics in Humanities. Special topics offered by visiting lecturers and/or practitioners in the arts and humanities. Content will vary depending on the topic and instructor. 1-3 semester credit hours.

HUMN 391 Topics in Humanities. Special topics offered by visiting lecturers and/or practitioners in the arts and humanities. Content will vary depending on the topic and instructor. 1-3 semester credit hours.

International Business

INTB 101 The Global Economy. This core course examines the concept of globalization from an international business and economic perspective. Special attention is paid to the political, legal, cultural and technological forces that affect and are affected by this phenomenon. 3 semester credit hours. Business Core Elective.

INTB 220 Area Studies. Cultural, economic and business conditions of different world regions. Prerequisite: ECON 101, junior standing. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

INTB 291 Topics. This course examines such topics as globalization, international trade and investment, offshoring of production, and the impact of international business on culture. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

INTB 292 Business Anthropology: Culture and International Business. Introduction to the impact of cultural variation on the functional areas of business with emphasis on globalization and the development of the world system. 3 semester credit hours. Anthropology Core Elective.

INTB 297 Internship. An internship with a company, not-for-profit organization, or government agency in an international business capacity. This may involve companies in the U.S. or abroad. Students that complete internships in the United States must arrange an internship that involves some aspects of international operations. 2-6 semester credit hours. *Department Consent Required.*

INTB 300 Introduction to International Business. This course is designed to introduce students to the importance and role of international business. Predominant themes will be culture and business opportunities. Topics include international trade, balance of payments, multinational corporations

and the functional areas of international business. 3 semester credit hours. Typically offered: Fall Term.

INTB 302 International Management. Study of the dynamics involved in international business management. Explores key issues such as political, legal and labor environments, strategic planning and organizational design. Emphasis is placed on the role of managers and others in successful international operations. 3 semester credit hours. Typically offered: Spring Term.

INTB 320 Area Studies. Cultural, economic and business conditions of different world regions. Prerequisite: ECON 101. 3 semester credit hours. Business Core Elective. Typically offered: Periodically. *Department Consent Required.*

INTB 330 Global Human Resource Management. Analyzes effect of human resource practices on the global corporation's strategy and structure, and demonstrates the complexity of recruitment, selection, training, evaluation, compensation, and labor relations in global organizations. 3 semester credit hours. Typically offered: Periodically.

INTB 340 Global Logistics. This course introduces students to the changing and increasingly important role of logistics in the global business arena. Students will explore the areas of inventory planning and management, supply chain integration, transportation and distribution, and warehousing; logistics information systems architectures and implementation strategies; and logistics organization design alternatives. 3 semester credit hours. Typically offered: Periodically.

INTB 350 International Marketing. Studies strategic issues in marketing products and services across national borders. Examines cultural, legal, ethical, and economic constraints. Prerequisite: INTB 300 or MKTG 300. 3 semester credit hours.

INTB 351 Global Development Issues. A study of the meaning, measurement and historical context of economic development and the issues underlying the vast differences in development between nations of the world. Topics covered include population, agriculture, industry, trade and foreign debt. 3 semester credit hours. Typically offered: Periodically.

INTB 360 International Trade and Finance. Trade theory, trade barriers, balance of payments, exchange rates, open-economy macroeconomics. Prerequisite: ECON 101, ECON 310, and "C" or better in MATH 115. 3 semester credit hours.

INTB 370 Multinational Corporate Finance. Stresses the financial decision-making of a firm in an international setting. Covers international financial markets, exchange risk management, asset and liability management, and international banking. Prerequisite: ECON 101, ECON 102, ACCT 111. 3 semester credit hours. Typically offered: Spring Term.

INTB 371 International Negotiations. This course aims to introduce students to the theoretical basics of joint problem-solving negotiation, with a particular emphasis on cross-cultural negotiation. As the emphasis here is on learning by doing, students will be lead through a variety of simulations that represent a variety of negotiation settings. 3 semester credit hours. Typically offered: Periodically.

INTB 375 Global Interdependence. Politics of international economics and economic determinants of international politics in a globally interdependent world. 3 semester credit hours. Typically offered: Periodically.

INTB 380 Global Strategic Management. This course, as the capstone to the International Business and Economics major, should come after students have studied all basic aspects of international business. The course focuses on multinational corporate strategies. Using a computer simulation and the case study method, students will apply the concepts of accounting, finance, marketing, and management to the development of an international strategic plan. Prerequisite: Senior standing. 3 semester credit hours. Writing Intensive Course. *Department Consent Required.*

INTB 391 Topics. This course examines such topics as globalization, international trade and investment, offshoring of production, and the impact of international business on culture. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

INTB 395 Independent Study. Directed readings, independent research, or student projects on areas of individual academic interest; topics, meeting times, and outcomes arranged with instructor. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

INTB 397 Internship. An internship with a company, not-for-profit organization, or government agency in an international business capacity. This may involve companies in the U.S. or abroad. Students that complete internships in the United States must arrange an internship that involves some aspects of international operations. 2-6 semester credit hours. *Department Consent Required.*

International Student Orientation

IPO 100 International Student Orientation. This class will introduce international students to practical cultural differences that exist between the United States and many countries. Topics to be discussed include health care, university facilities and resources, income taxes and employment. Prerequisites: enrollment as an international student. Cross listed with IPO 400. Typically offered: Fall, Spring and Summer Terms. *Course Repeatable. Maximum number of units allowed 0.*

International Student Orientation Undergraduate

ISOU 100 International Student Orientation Undergraduate. ISO provides an introduction to student life, resources, and immigration rules and regulations to all incoming international students/scholars with F-1 and J-1 visas. This course is designed to help new international students/scholars learn about the Student and Exchange Visitor Program (SEVIS), to understand how to maintain status and the required government reporting process, and help new students to adjust at BENU. Visa regulation orientation is required for visa holders. Typically offered: Fall, Spring and Summer Terms.

Literature

LITR 100 Introduction to Literary Analysis. Introduction to literary study and criticism. Focus on genres, techniques and development of literature. Emphasis on critical reading and writing. Introductory course for Literature majors; prerequisite for 300-level Literature courses. 3 semester credit hours. Typically offered: Spring Term.

LITR 210 Literature and Film. Selected literary texts and their representation on film; analysis of the relationship between the two genres, and differences between written texts and visual media. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Odd Years.

LITR 250 Medieval Literature. Study of literature from the medieval era of British history. Students will learn to read Old English and/or Middle English; texts to be studied may include work by Chaucer, the Gawain poet, Langland, medieval dramatists, and other major writers. Counts as pre-1800. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term, Odd Years.

LITR 255 American Literature I. Survey of American literature from its Colonial roots, particularly the influence of the Puritans, to its flowering in New England. Counts as pre-1800. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term.

LITR 256 American Literature II. Survey of American literature since the Civil War. Emphasis on development of Realism and Naturalism in the 19th century, and modernism in the 20th. Counts as post-1800. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term.

LITR 257 British Literature I. Historical survey of representative British literary texts from the Anglo-Saxon period to 1800, with attention to modes of critical reading and development of important genres. Counts as pre-1800. IAI H3 912. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term.

LITR 258 British Literature II. Historical survey of representative British and Anglophone literary texts from 1800 to the present, with attention to the larger cultural context and contemporary modes of literary analysis. Counts as post-1800. IAI H3 913. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term.

LITR 259 World Literature. Comparative study of major works of the Ancient World, Middle Ages, Renaissance, Enlightenment, Romantic Age, periods of Realism and Naturalism, and Modern World. IAI H3 907. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term, Even Years.

LITR 263 Literature of the Early Modern Period. Selected literary and cultural texts drawn from the late sixteenth to the eighteenth centuries. Places these texts in the context of emerging modernity. Counts as pre-1800. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Odd Years.

LITR 264 Global/Postcolonial Literature and Theory. A comparative study of literature and theory concerning colonial, postcolonial, third world, and diasporic cultures and communities. The course

may include such topics as education and the colonial/postcolonial condition; intellectual culture and imperialism; the politics of tourism, identity and diaspora; travel, migration, and globalization; and trauma, genocide, and historical fiction. Counts as diversity elective for majors. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Odd Years.

LITR 265 Shakespeare. Critical reading of representative comedies, tragedies, and histories. Emphasis on such issues as his dramatic art, critical response, and role in constructions of literary culture. Counts as pre-1800. IAI H3 905. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Even Years.

LITR 266 Studies in the Novel. Critical study of selected novels, with emphasis on British and American writers and forms in English; theories of the novel as literary genre. Topics will vary. 3 semester credit hours. Literature Core and Writing Intensive. Typically offered: Spring Term, Odd Years.

LITR 267 Studies in Poetry. Critical study of selected poetry, with attention to both formal and interpretive issues; theories of poetry as literary genre. Topics will vary. IAI H3 903; EGL 915. 3 semester credit hours. Literature Core and Writing Intensive. Typically offered: Spring Term, Even Years.

LITR 268 Studies in Drama. Critical study of selected dramatic literature from a range of cultures and periods; theories of drama as literary genre. Topics will vary. IAI EGL 916. 3 semester credit hours. Literature Core and Writing Intensive. Typically offered: Fall Term, Odd Years.

LITR 269 Introduction to Creative Writing. Writing workshop for students; introduction to various forms of modern fiction and poetry. Students will have the opportunity to create original poetry and fiction. Applicable as Fine Arts Core Elective. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term, Odd Years.

LITR 279 U. S. Multiethnic Literature. A comparative study of literature reflecting the diversity of American culture. In our exploration of just a sampling of the multiple voices of U. S. literature, we will consider these narratives within specific historical, cultural, rhetorical, and literary contexts. Counts as diversity elective for majors. IAI H3 910D; EGL 918. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term, Even Years.

LITR 280 African-American Literature. Historical and critical exploration of African-American writers' contributions to American fiction, poetry, drama, and non-fiction, from the oral tradition to the present. May include an Afrocentric approach. Counts as diversity elective for majors. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Even Years.

LITR 281 Gender and Literature. Introduction to gender studies as a mode of literary analysis, and to the role of literary texts in shaping gender constructions. Counts as diversity elective for majors. IAI H3 911D. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term, Even Years.

LITR 291 Topics in Literature. Intermediate-level study of authors, themes, movements and genres; attention to historical context. Sample topics: American Renaissance; 19th century British Women Writers; Gothic; Science Fiction; and Lyric. 3 semester credit hours. Literature Core Elective. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

LITR 301 Advanced U.S. Literary and Cultural Studies. Explores critical questions, analytical categories and common methodologies that structure the practice of U.S. literary and cultural studies. Students will work with primary literary texts as well as secondary sources and theoretical works. Students will also complete a research paper. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Fall Term, Even Years.

LITR 305 Critical Theory. Survey and application of contemporary theories of literature and language. Covers the intersection of modern literary theory with philosophy, linguistics, psychology, anthropology and other humanistic fields. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

LITR 307 Modern English Language. Study of traditional, structuralist and transformational theories of grammar and language, with attention to practical applications for language instruction. Includes introduction to contemporary linguistic theory. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Spring Term.

LITR 315 American Literary Realism and Naturalism. This course provides advanced study of U.S. realist and naturalist literature of the 19th and 20th centuries. Counts as Post-1800. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Spring Term, Even Years.

LITR 322 Reading, Writing and Thinking in the Middle and Secondary School Curriculum. Examines the relationship between reading, writing, oral communication and thinking and explores strategies for integrating these areas across the curriculum. Examines a variety of theoretical perspectives and instructional strategies involving simulation, role-playing, case studies, inquiry, problem-solving, critical thinking and environmental learning. Lesson and unit plan development emphasized. Prerequisite: Cumulative GPA of 2.5 and TEP. 3 semester credit hours. Typically offered: Spring Term.

LITR 352 Young Adult and Multicultural Literature in the Middle and Secondary School Curriculum. Evaluation, selection and teaching of literature to serve the interests and reading needs of students from the middle-school through high school. The course includes literature which reflects the culture and heritage of America's multiethnic/multicultural population. The course emphasizes theory and research in reading comprehension, literary criticism, including reader response and curriculum and instruction. In addition, the course includes critical analysis, methods of teaching literature and the uses of literature in the curriculum. Prerequisite Main Campus: Cumulative GPA of 2.5 and TEP. Prerequisite Springfield Campus: Cumulative GPA of 2.75 and TEP. 3 semester credit hours. Typically offered: Periodically.

LITR 357 The 19th Century. Advanced study of 19th century fiction, poetry and/or drama. Topics may include Victorian literature, the 19th century novel, and Romanticism. Counts as post-1800. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Spring Term, Odd Years.

LITR 362 Modern Literature. Examines the evolution of poetic and narrative forms since the late 19th century. Emphasis on major British and/or American poets and novelists; may also include translated works from other cultures. Counts as post-1800. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Spring Term, Even Years.

LITR 364 Global/Postcolonial Literature and Theory. A comparative study of literature and theory concerning colonial, postcolonial, third world and diasporic cultures and communities. The course may include such topics as education and the colonial/postcolonial condition; intellectual culture and imperialism; the politics of tourism; identity and diaspora; travel, migration and globalization; and trauma, genocide and historical fiction. Counts as diversity elective for majors. Prerequisite: LITR 100. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Odd Years.

LITR 369 Creative Writing: Fiction. Advanced writing workshop with focus on writing and revision of fiction: includes group discussions and individual conferences. Students will produce a professional portfolio of fiction. Prerequisite: LITR 269. 3 semester credit hours. Typically offered: Spring Term, Even Years.

LITR 370 Creative Writing: Poetry. Advanced writing workshop with focus on writing and revision of poetry: includes group discussions and individual conferences. Students will produce a professional portfolio of poetry. Prerequisite: LITR 269. 3 semester credit hours. Typically offered: Spring Term, Even Years.

LITR 381 Theories of Gender in Literary Analysis. Advanced readings in literature and in selected gender-based modes of textual analysis, as well as theories of the relationship between gender and language. Counts as diversity elective for majors. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Spring Term, Odd Years.

LITR 385 Major Authors and Genres. 3 semester credit hours.

LITR 391 Advanced Topics in Literature. Advanced study of authors, themes, movements and genres; attention to historical context. Sample topics: Literature and the Environment; Women Writers of Color; Satire; focused study of major author. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

LITR 395 Independent Study. Students with interest in independent study of topics not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval based on academic appropriateness and availability of resources. Prerequisite: LITR 100 and junior or senior standing. 3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

LITR 399 Senior Seminar. Group workshop and individual instruction in literary research and critical writing, leading up to the completion of a major paper in a literary field of the student's choice. Prerequisite: Senior standing, LITR 100. 3 semester credit hours. Typically offered: Fall Term.

Management and Organizational Behavior

MGT 110 Business Principles and Skills for Academic Success. Introductory course for adults pursuing an associate degree. Academic success topics include learning styles, group interaction, written and oral communication skills, research and critical thinking skills, and time management. This course also includes a survey of business structures and operations. Other topics include the role of consumers in business, social responsibility within business organizations, and specialized business fields. Prerequisite: Admission into the Adult Associate of Arts Program. 3 semester credit hours.

MGT 120 "Going Green" in the Business World. How can workers on the job influence their employers to adopt green practices? What business tools can you use to take great ideas and make them into sustainable programs? This course shows what can work, depending on the type of business, using case examples. These tools include implementing the LEED program in new and existing buildings (i.e. insulation, solar panels, lighting, recycling, composting, landscaping, etc.), transportation programs for employees (i.e. carpooling, mass transit, bicycling, walk to work) and cap and trade markets for emission credits to reduce energy consumption. You will learn a variety of business frameworks and tools to influence business leader's decisions about environmental sustainability. As a result of this course, you will better understand how you can make a difference. 1 semester credit hour. Typically offered: Fall and Spring Terms.

MGT 125 Business Sustainability Topics. Traces the historical evolution of present day expectations on corporations and other organizations for taking on environmental and social responsibilities that may seem unrelated to their core mission. Present-day imperatives such as climate change, food vs. fuel production, consumerism and resource depletion, renewable energy technologies and employment opportunity trends will be discussed. Students will be acquainted with the initiatives of several organizations that have integrated sustainability-focused business practices into their operations. Students will study specific topics that are important components of sustainability initiatives. These topics include building design and construction, energy conservation and management, substitution of renewable for non-renewable resources, carbon reduction, waste reduction, and sustainability measurement and reporting. 3 semester credit hours. Typically offered: Fall and Spring Terms.

MGT 150 Business Statistics I. Basic course in statistical technique, includes measures of central tendency, variability, probability theory, sampling, estimation and hypothesis testing. IAI M1 902; BUS 901. Prerequisite: MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall Term.

MGT 210 Management. An overview of the fundamentals of management and leadership and their impact on the modern corporation. The course is a combination of theory and practical application, offering the student an opportunity to learn about the nature of management, leadership and cultural diversity issues. Prerequisite: sophomore standing. 3 semester credit hours. Typically offered: Fall and Spring Terms.

MGT 217 Group Dynamics and Learning Strategies. This course provides an overview of organizational structure, group dynamics and learning strategies. Prerequisite: Admission to the Adult Bachelor of Arts Learning Team or Online Program. 3 semester credit hours.

MGT 220 Entrepreneurship. Application of business principles to planning, organizing and operating the entrepreneurial enterprise. 3 semester credit hours.

MGT 234 Organizational Planning and Analysis. Provides a basic understanding of key concepts and an ability to use basic analytical tools related to financial, economic and marketing planning. Topics include revenues, costs, supply and demand, pricing and the development of products and services to meet market needs. 3 semester credit hours.

MGT 235 Business Law I. Introduction to the role of the legal system in our society with an emphasis on the law of contracts, sales and agency. 3 semester credit hours.

MGT 236 Business Law II. Introduction to the role of the legal system in our society with an emphasis on the law of commercial paper, partnership and corporations. 3 semester credit hours.

MGT 237 Business Communications. Theory and practice of communication within and between business organizations of all types. Focus on the training for and development of entry-level skills in communication and its related technology. 1-3 semester credit hours. Writing Intensive Course. *Department Consent Required.*

MGT 247 Ethical Leadership. This course is an overview of management at the strategic and tactical levels. It reviews various models of leadership, ethics involved in that leadership, strategies and skills.. Prerequisite: Admission to the Adult Bachelor of Arts Learning Team or Online Program. 3 semester credit hours. Writing Intensive Course.

MGT 251 Business Statistics II. Covers regression and correlation, and analysis of variance and nonparametric statistics. Prerequisite: MGT 150. 3 semester credit hours. Typically offered: Spring Term.

MGT 252 Business Ethics in the Context of Catholic Social Teaching. This course is designed to give the student knowledge of the range of ethical theories that currently govern behavior in business, why ethics are necessary to business, and how ethics influence corporate success. Cross listed as THEO 252. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall and Spring Terms.

MGT 255 Readings in Organizational Research. Introduces methods of systematic investigation which are needed to provide continued development of the body of knowledge upon which the disciplines of management and organizational behavior are based. Focus is on an understanding of the research process in organizations, its value and its limitations. 3 semester credit hours.

MGT 260 Fundamentals of Human Resource Management. This course will focus on developing, contributing to and supporting the organization's mission, vision, values, strategic goals and

objectives; formulating policies; guiding and leading the change process; and evaluating HR's contributions to organizational effectiveness. 3 semester credit hours. Typically offered: Annually.

MGT 262 Employee Recruitment Strategies. This course will focus on developing, implementing and evaluating sourcing, recruitment, hiring, orientation, succession planning, retention and organizational exit programs necessary to ensure the workforce's ability to achieve the organization's goals and objectives. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

MGT 264 Employee Performance and Appraisal Management. This course will focus on developing, implementing and evaluating activities and programs that address employee training and development, performance appraisal, talent and performance management, and the unique needs of employees to ensure that the knowledge, skills, abilities and performance of the workforce meet current and future organizational and individual needs. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

MGT 266 Essentials of Compensation and Benefits. This course will focus on developing, selecting, implementing, administering and evaluating compensation and benefits programs for all employee groups that support the organization's strategic goals, objectives and values. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

MGT 268 Managing Workplace Relationships. This course will focus on analyzing, developing, implementing, administering and evaluating a broad range of workplace relationships. Functional areas include techniques for facilitating positive employee relations; positive employee relations strategies and non-monetary rewards; motivation concepts and applications; and employee involvement strategies. (For example: employee management committees, self-directed work teams and staff meetings). 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

MGT 270 Employment Law and Risk Management. This course will focus on developing, implementing, administering and evaluating programs, plans and policies which provide a safe and secure working environment and to protect the organization from liability. Additional focus will be placed on the workplace relationship between employer and employee in order to maintain relationships and working conditions that balance employer and employee needs and rights in support of the organization's strategic goals, objectives and values. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

MGT 275 Accounting and Financial Analysis. This course surveys a broad range of financial and managerial accounting techniques used by managers as applied to business and organizational planning, reporting and control. The financial accounting topics dealt with, from the perspective of the financial statement user, include the basic processes of the accounting information system, transaction analysis, the form and content of financial statements, and financial analysis tools. In the managerial accounting topics, we explore the tools of management decision-making including variable costing, cost-volume-profit analysis, performance reporting and capital budgeting. The emphasis is on understanding rather than on mathematical rigor. The focus is on the analysis and solution of problems that managers normally deal with. Prerequisite: ACCT 112 and Admission to the Adult Bachelor of Arts Learning Team or Online Program. 3 semester credit hours.

MGT 287 Why Work? This 3-semester hour course is a two-part course and is cross listed with THEO 287A. The first part of the two-part course examines the life of a business leader – why work? It will examine why business is viewed as a calling to not only make a living but improve lives – co-workers, customers and the wider community. In the second part, students will explore their own vocation, leadership strengths, write their dream job description, and find companies and careers toward a meaningful life. 3 semester credit hours. Typically offered: Spring Term.

MGT 297 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

MGT 300 Management. Fundamental principles and practices of the corporate enterprise are utilized to consider planning, organizing, implementing and controlling in management. Prerequisite: Sophomore standing. 3 semester credit hours. Business Core and Writing Intensive Course. Typically offered: Fall and Spring Terms.

MGT 301 Entrepreneurship. Application of business principles to planning, organizing and operating the entrepreneurial enterprise. 3 semester credit hours.

MGT 302 International Management. Study of the dynamics involved in international business management. Explores key issues such as political, legal and labor environments, strategic planning and organizational design. Emphasis is placed on the role of managers and others in successful international operations. 3 semester credit hours. Typically offered: Spring Term.

MGT 303 Management Labor Relations. The course focuses on the evolution of employer-employee relations in union and non-union organizations. The emphasis is on union, governmental and workplace policies and practices, history, functions, forecasted changes relating to labor and management in both public and private sector. 3 semester credit hours.

MGT 305 Introduction to Sports Culture in America. This course introduces students to the business side of sports in America. It provides an overview for the opportunities in the sports and leisure industry. The course emphasizes critical thinking skills. Topics covered include ethics, social concerns and the economic impact of sports and leisure upon America. 3 semester credit hours.

MGT 320 Organizational Behavior. Overview of organizational structures and group dynamics. Examines job satisfaction, motivation, performance evaluation, decision-making and goal setting. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

MGT 323 Group Processes. Provides the basic theory necessary to understand the components of the group process. The course gives the opportunity to participate in functioning groups for decision-making and to practice newly developed skills in class groups. 3 semester credit hours.

MGT 330 Human Resource Management. Relationship of internal and external labor market concepts to organizational manpower planning. 3 semester credit hours.

MGT 331 Labor and Industrial Relations. Analysis of the structure and behavior of labor and business enterprises and implications of this behavior for resource allocation and individual welfare. Prerequisite: ECON 101, ECON 202. 3 semester credit hours. Writing Intensive Course.

MGT 333 Operations Management. A study of theory, principles and computational procedures as applied to such areas as strategic planning, forecasting, capacity planning, productivity and quality control. 3 semester credit hours.

MGT 334 Training and Development. This course covers corporate training and development including assessment, training design, training evaluation, management and executive training. Prerequisite: MGT 330. 3 semester credit hours. Typically offered: Fall Term.

MGT 335 Compensation and Performance Management. A study of the historical development of compensation theory and its applications to the design and implementation of benefit/reward structures in modern organizations. Prerequisite: MGT 330. 3 semester credit hours. Typically offered: Spring Term.

MGT 347 Project Management. The art and science of project management as applied to a variety of business and technology settings. Discusses how to initiate, plan, execute and control, and close projects within budget and on schedule. Includes management of project scope, time, cost, quality, human resources, communications and risks. A project planning software tool is utilized, usually MS Project. Prerequisite: Junior or Senior Standing. 3 semester credit hours. Typically offered: Spring Term.

MGT 370 Industrial Organization and Policy. Focuses on empirical studies in patterns of market structure, business behavior and performance. Applications in the fields of antitrust and regulation are stressed. Prerequisite: ECON 202. 3 semester credit hours.

MGT 380 Strategic Management. Management capstone course enabling business students to use the disciplines and techniques learned throughout their program of study. Case studies stress the importance of basing management decisions on a strategic view of organizations. Prerequisite: Senior standing, FINA 300, MGT 300 MKTG 300. 3 semester credit hours. Typically offered: Fall and Spring Terms.

MGT 387 Management Capstone. This is the management capstone course enabling students to integrate and use the disciplines and techniques learned throughout the program of study. Case studies are utilized to stress the importance of basing management decisions on a strategic view of organizations. The focus is on the role of management in the development of organizational strategy, on the practice of the decision-making process and in the development of an appropriate organizational structure. Prerequisite: MGT 275, 302, 330, 347 and admission to the adult B.A. in Management Program. 3 semester credit hours. Writing Intensive Course.

MGT 389 Senior Seminar. Capstone course for organizational leadership major. Focus on an analysis of the leadership role in complex organizations. Case-based approach will integrate previous knowledge and emphasize use of critical thinking. 3 semester credit hours.

MGT 391 Topics. Specially designed courses in various business topics to supplement the business curriculum. Prerequisite: Varies based upon the specific topic being explored. 1-3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

MGT 395 Independent Study. Provides an opportunity for an advanced student in the major to pursue study in a field of business related interest. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

MGT 397 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. *Department Consent Required.*

Marketing

MKTG 230 Fundamentals of Selling. This course provides a comprehensive approach to the fundamentals of selling, focusing on effective strategies throughout the sales cycle, including: identifying customer needs; developing relationships; product presentations and qualifying sales; and closing and servicing a sale. Students apply these concepts through preparation of sales proposals and presentations that sell. 3 semester credit hours.

MKTG 232 Managing Sales Relationships for Productivity. The course is an introduction to aspects of professional sales relations that affect sales productivity. Participants are introduced to various patterns for analyzing the dynamics of the professional selling process and customer service which determine the dynamics of sales relationships. 3 semester credit hours.

MKTG 234 Psychology of Sales. This course provides a practical approach to the key component of the sales effort – "the close." Emphasis is given to consumer objectives, demonstration strategies and closing techniques. 3 semester credit hours.

MKTG 236 Negotiating Skills in Business. This course focuses on the process and practice of effective negotiations in the sales and marketing environment. The impact of negotiating on management and other business practices is also addressed. 3 semester credit hours.

MKTG 238 Sales Management. This course is designed to prepare prospective sales managers for the challenges they face in corporate sales settings. It deals with the critical impact management has on sales, and the effective team-building strategies and leadership skills needed for success in these key positions. 3 semester credit hours.

MKTG 240 Business Ethics in Sales. This course deals with the ethical implications of management decision-making in society. It places emphasis on the ethical impact of contemporary social, political and economic issues. 3 semester credit hours.

MKTG 291 Topics. Specially designed courses in various business topics to supplement the business curriculum. Prerequisite: Varies based upon the specific topic being explored. 3 semester credit hours.

MKTG 297 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

MKTG 300 Marketing. An investigation of the basic principles of marketing, with an emphasis on the practical application of those principles to formulate marketing plans that will deliver value to customers and meet the goals of the organization. Prerequisite: Sophomore standing. 3 semester credit hours. Typically offered: Fall and Spring Terms.

MKTG 305 Sports Marketing. A case study approach will be used to explore and analyze situations that pertain to sports marketing. Prerequisite: MKTG 300. 3 semester credit hours. Typically offered: Spring Term.

MKTG 310 Consumer Behavior. This course examines consumers' needs and wants, and market behavior as a foundation for the formulation of effective marketing strategies by organizations. The course also provides an understanding of consumer behavior that can be used by all students to enhance their ability to consume wisely and to enable them to appreciate the critical role consumers play in our economic system. Prerequisite: MKTG 300. 3 semester credit hours. Business Core Elective. Typically offered: Spring Term.

MKTG 320 Data and Text Mining. Knowledge discovery and business analytics are core tools used by organizations to direct business decisions, improve strategies, reduce risk and create new business opportunities. This course focuses on algorithm techniques that can be used for knowledge discovery such as classification, association rule mining, clustering and heuristics. Successful applications of this methodology have been reported in areas such as credit rating, fraud detection, database marketing, customer relationship management and stock market investments. This course will cover data mining for business intelligence and will cover applications to both data and text. The focus is on several techniques that aim at discovering patterns that can bring value or "business intelligence" to organizations. Examples of such patterns include fraud detection, consumer behavior and credit approval. The course will cover the most important data mining techniques including: classification, clustering, association rule mining and prediction --- through a hands-on approach using SAS Data and Text Miner. 3 semester credit hours. Typically offered: Fall and Spring Terms.

MKTG 330 Promotional Strategy. An integrated marketing communications (IMC) approach to the study of the strategies organizations use to promote their products and services. The course goes beyond the traditional study of advertising, sales promotion, personal selling, direct marketing and public relations to show how all four elements of the marketing mix – product, price, promotion and distribution – must blend together to present a unified message to customers. Prerequisite: MKTG 300 3 semester credit hours. Typically offered: Fall Term.

MKTG 331 Internet Marketing Communications. Internet marketing is reshaping the way businesses and consumers interact with each other. This course studies how the Internet as a communication channel can be valuable to marketing decision-makers eager to understand and utilize Internet technology to grow their businesses. Examining the Internet and its evolution from a research tool to a marketing communications medium, this course shows how the Internet offers an array of one-to-one, real-time personalized marketing communications. Through various exercises

and projects, students will explore how the Internet affords decision makers the opportunity to customize their marketing approaches to meet individual customers' needs and to make the Internet an effective part of an overall Integrated Marketing Communications Strategy. Prerequisite: MKTG 300. 3 semester credit hours.

MKTG 332 Web 2.0 Tools in Business. Consumers have embraced Web 2.0 technologies including, for example, social networking applications – Facebook, LinkedIn, Twitter, YouTube, wikis, blogs, tags, mashups and virtual worlds. How are organizations using these applications? How might organizations use these applications? Specific topics will include an overview of Web 2.0 technologies, how these tools may be leveraged in an organization, how to align these tools with business goals, how to foster collaboration, and how to ensure security. 1 semester credit hour. Typically offered: Spring Term.

MKTG 333 Personal Selling and Sales Management. This course examines the role personal selling plays in an organization's overall integrated marketing communications program. Students will explore how personal selling works with other elements of the promotional mix (advertising, publicity, sales promotion) to create a uniformed, integrated marketing message. In addition to gaining knowledge of traditional personal selling practices and techniques, students will learn how the Internet is increasingly factoring into an organization's personal selling strategy. Prerequisite: MKTG 300. 3 semester credit hours.

MKTG 342 Web Intelligence and Analytics. This course will focus on developing an understanding of web analytics and web intelligence. Students will learn how to leverage website effectiveness and marketing, and how to measure, identify and interpret key Web metrics and KPIs. Additionally, students will gain an understanding of main data collection techniques, their impact on metrics and their limitations. Insight into the potential of data mining and predictive analytics in the context of the Web will be explored as well as Web spiders, Web bots and social listening software. Prerequisite: MKTG 320. 3 semester credit hours. Typically offered: Periodically.

MKTG 350 International Marketing. Studies strategic issues in marketing products and services across national borders. Examines cultural, legal, ethical and economic constraints. Prerequisite: INTB 300 or MKTG 300. 3 semester credit hours.

MKTG 351 Global Development Issues. A study of the meaning, measurement and historical context of economic development and the issues underlying the vast differences in development between nations of the world. Topics covered include population, agriculture, industry, trade and foreign debt. 3 semester credit hours. Typically offered: Periodically.

MKTG 360 Marketing Research. This course presents the principles of marketing research primarily from the perspective of the users of that research, with a focus on the practical and applied aspects of the subject. Emphasis will be placed on how marketing researchers apply the various concepts and techniques, as well as how business decision-makers implement the findings to improve marketing practices. Topics covered will include research design, sampling techniques, questionnaire design, measurement and scaling, data collection and analysis, and report preparation. Prerequisite: MKTG 300, MGT 150, Junior standing. 3 semester credit hours. Typically offered: Fall Term.

MKTG 380 Marketing Strategy. A comprehensive study of major topics in strategic marketing, the components of a marketing plan, and financial analysis for marketing management. Case studies are used as the approach for utilizing marketing concepts and practices to analyze marketing problems in a wide variety of industry settings and to develop marketing strategies based on those analyses. Prerequisite: MKTG 300, Senior standing. 3 semester credit hours. Typically offered: Spring Term.

MKTG 391 Topics. Specially designed courses in various business topics to supplement the business curriculum. Prerequisite: Varies based upon the specific topic being explored. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

MKTG 395 Independent Study. Provides an opportunity for an advanced student in the major to pursue study in a field of business related interest. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

MKTG 397 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. *Department Consent Required.*

Mathematics

MATH 104 Advanced Business Mathematics. This course is designed to provide the student with a good understanding of proper problem-solving techniques; simplifying algebraic expressions; solving first-degree equations; the properties of lines, graphs and functions; modeling and analysis of functions; and solving finance problems. The TI-83 Plus graphing calculator is used throughout the course. Prerequisite: Admission to the Adult Learning Team or Online Program. 3 semester credit hours.

MATH 105 Finite Mathematics. A survey of algebra, functions, graphs and linear equations as applied to problems in economics and business. Topics include mathematics of finance, linear, polynomial, exponential and logarithmic functions. Credit will not be granted for both MATH 105 or MATH 110. Prerequisite: Placement exam or at least a "C" or better in MATH 95. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

MATH 108 Quantitative Reasoning. Develops conceptual understanding and computational skills in unit analysis, uses of percentages, and dealing with quantities and their magnitudes. Includes formulas of finance for simple interest, compound interest and loan payments; functions and their graphs; linear equations; exponential growth and decay; principles of counting; fundamentals of probability; and estimation and approximation techniques to judge the reasonableness of answers. Also includes representing and analyzing data using statistical tools such as histograms; measures of central tendency; variance and standard deviation; linear regression and scatter plots; normal distributions; and margin of error and confidence intervals. IAI M1 904. Prerequisite: Placement exam or at least a "C" or better in MATH 095. 3 semester credit hours. Typically offered: Fall and Spring Terms.

MATH 110 College Algebra. Topics include equations, inequalities, functions, graphs, polynomial and rational functions, exponential and logarithmic functions, equations, and systems of equations and inequalities. Credit will not be granted for both MATH 105 and MATH 110. Prerequisite:

Placement exam or at least a "C" or better in MATH 095. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

MATH 111 College Trigonometry. General study of the trigonometric functions and their graphs, trig identities, and equations, inverse trig functions, applications of trigonometry, vectors, polar coordinates and parametric equations. IAI MTM 901. Prerequisite: Placement exam or at least a "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall and Summer Terms.

MATH 112 Mathematics for Elementary Teachers I. This course explores the mathematical content of elementary school mathematics from the perspective of future elementary school teachers. Topics include mathematical thinking, problem-solving, sets, representations of functions, numeration, standard and non-standard arithmetic algorithms, mental arithmetic and estimation, number theory, integers, fractions and rational numbers, decimals and real numbers. Graphing calculators and manipulatives are used throughout the course. This course is required for elementary education majors. Prerequisite: "C" or better in MATH 095 or placement exam. 4 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall Term.

MATH 115 Business Calculus. A survey of mathematical techniques used in the managerial, social and life sciences. Topics include systems of linear equations and matrices, linear programming, differential calculus and applications of the derivative. Prerequisite: "C" or better in MATH 110 or MATH 105, or placement exam. 3 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall, Spring and Summer Terms.

MATH 150 Introduction to Statistics. Basic course in statistical techniques which include measures of central tendency, probability, sampling, estimation and hypothesis testing. For non-business majors. IAI M1 902. Prerequisite: "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

MATH 170 Introduction to Calculus I. An introduction to limits and differentiation. Topics in algebra, functions and trigonometry will be reviewed as necessary for calculus. Further study includes the chain rule, Newton's approximations, plane analytic geometry, and applications of velocity and marginal cost. The computer algebra system Maple will be employed. Prerequisite: Placement exam or a "C" or better in MATH 111, coregistration in MATH 171. 4 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall Term.

MATH 171 Introduction to Calculus I Lab. Selected computer explorations to illustrate and/or investigate the mathematical concepts in MATH 170. Prerequisite: Placement exam or a "C" or better in MATH 111. Coregistration in MATH 170. 2 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall Term.

MATH 190 Mathematics Topics. 1-3 semester credit hours.

MATH 200 Applications of Calculus I. A continuation of MATH 170. Topics include curve sketching, plane analytic geometry, maxima and minima, related rates and other applications of the derivative. Study concludes with definite and indefinite integrals, numeric integration, elementary differential

equations, parametric functions and the Fundamental Theorems of Integral Calculus. The computer algebra system Maple will be employed. Credit will not be granted for both MATH 200 and MATH 210. Prerequisite: "C" or better in MATH 170. 4 semester credit hours. Typically offered: Spring Term.

MATH 207 Calculus with Analytics I Lab. Selected computer explorations to illustrate and/or investigate the mathematical concepts in MATH 210. Corequisite: Coregistration in MATH 210 or MATH 215. 1 semester credit hour. Mathematics and Computer Science Core Elective. Typically offered: Fall and Spring Terms.

MATH 210 Calculus for Physical Sciences I. Topics include differentiation and antidifferentiation of algebraic, trigonometric and transcendental function, the fundamental theorem of calculus, applied problems on maxima and minima, plane analytic geometry and simple differential equations. The computer algebra system Maple will be used to illustrate calculus concepts. Credit will not be granted for both MATH 200 and MATH 210. IAI M1 900-1; EGR 901; MTH 901. Prerequisite: Placement exam or "B" or better in MATH 111, and coregistration in MATH 207. 4 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall, Spring and Summer Terms.

MATH 211 Calculus for Physical Sciences II. Topics include applications of the definite integral, methods of integration, sequences and series and numeric integration. The computer algebra system Maple will be used to illustrate calculus concepts. IAI M1 900-2; EGR 902; MTH 902. Prerequisite: "C" or better in MATH 200, MATH 205, MATH 210, MATH 220. 4 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall, Spring and Summer Terms.

MATH 212 Calculus III. Topics include solid analytic geometry and vectors, partial differentiation, multiple integrals and vector calculus. The computer algebra system Maple will be used to illustrate calculus concepts. IAI M1 900-3; EGR 903; MTH 903. Prerequisite: "C" or better in MATH 206, MATH 211, MATH 221 or MATH 224. 4 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall and Spring Terms.

MATH 220 Calculus for Life Sciences I. This is the first course in a two-semester sequence in calculus with biological applications. There is a strong emphasis on biological models using real biological data. Topics include semi-log and log-log plots, sequences, basic difference equations, discrete time models, limits, continuity, differentiation and antidifferentiation of algebraic, trigonometric and transcendental functions, applied problems on maxima and minima, equilibria and stability, basic differential equations, and the fundamental theorem of calculus. The course uses the computer algebra system Derive, Excel and modeling software to explore calculus concepts and biological models. Prerequisite: Placement exam or "B" or better in MATH 111 and coregistration in MATH 207. 4 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Fall Term.

MATH 222 Mathematics for Elementary Teachers II. This course is a continuation of MATH 112. This course explores additional mathematical content of elementary school mathematics from the perspective of future elementary school teachers. Topics include proportional reasoning, percents, basic concepts of geometry, two- and three-dimensional geometric figures, transformational

geometry, coordinate geometry, symmetry, tessellations, similarity, and direct and indirect measurement. Graphing calculators, manipulatives and dynamic geometry software are used throughout the course. This course is required for elementary education majors. MATH 112 and MATH 222 together satisfy IAI M1 903. Prerequisite: "C" or better in MATH 112. 4 semester credit hours. Mathematics and Computer Science Core Elective. Typically offered: Spring Term.

MATH 224 Calculus for Life Sciences II. This is the second course in a two-semester sequence in calculus with biological applications. There is a strong emphasis on biological models and examples using real biological data. Topics include applications of the definite integral, methods of integration, differential equations, systems of linear equations, matrices, eigenvalues and eigenvectors, analytic geometry, functions of several variables, partial derivatives, differentiability, tangent planes and linearization, systems of difference equations, systems of linear and nonlinear differential equations, equilibria and stability, and an introduction to probability. Applications may include allometric growth, age-structured population matrix models, epidemic models, competition models, host-parasitoid models and models for neuron activity. The course uses computer applications to explore calculus concepts and biological models. Prerequisite: MATH 200, MATH 205, MATH 210, or MATH 220 or Placement exam. 4 semester credit hours. Natural Sciences Core Elective. Typically offered: Spring Term.

MATH 240 Discrete Mathematics. Basic concepts of finite and discrete algebraic structures, with emphasis on applications in computer science. Sets, relations and functions, boolean algebra, computer arithmetic, combinatorics, matrix algebra, directed and undirected graphs, and methods of proof. IAI M1 905; CS 915. Prerequisite: "C" or better in MATH 115 or placement or credit in MATH 200, MATH 210, MATH 220. 4 semester credit hours. Typically offered: Fall and Spring Terms.

MATH 252 Introduction to Differential Equations. IIT course. 4 semester credit hours. Typically offered at North Central College. *Department Consent Required.*

MATH 260 Differential Equations. Includes an introduction to 1st and 2nd order ordinary differential equations with an emphasis on linear equations and techniques to solve them, applied problems in various fields, the Laplace transform, a brief introduction to chaos theory, systems of 1st order linear equations and power series solutions 2nd order linear ODEs. IAI EGR 904; MTH 912. Prerequisite: Credit or coregistration in MATH 212. 4 semester credit hours. Writing Intensive Course. Typically offered: Spring Term.

MATH 280 Introduction to Proofs. An introduction to methods of formal mathematical proof, with emphasis on improving the student's ability to both read and write such proofs. Topics include logic, set theory, relations, functions, induction and cardinality. Course serves as a transition from beginning mathematics courses to the higher level courses. Prerequisite: "C" or better in MATH 211. 3 semester credit hours. Typically offered: Periodically.

MATH 300 Linear Algebra. Topics include matrix algebra, theory of determinants, introduction to vector spaces, linear independence and span, and properties of linear transformations on finite dimensional vector spaces. IAI MTH 911. Prerequisite: "C" or better in MATH 212 or MATH 240. 3 semester credit hours. Typically offered: Spring Term.

MATH 310 Modern Geometry. Euclidean and non-Euclidean geometries, geodesics, triangle congruence theorems, area and holonomy, parallelism, symmetry and isometries. Prerequisite: "C" or better in MATH 211. 3 semester credit hours. Writing Intensive Course. Typically offered: Spring Term, Even Years.

MATH 312 Mathematics for Middle and Secondary Teachers. Topics include: analyses of alternate definitions, languages and approaches to mathematical ideas; extensions and generalizations of familiar theorems; discussions of the history of mathematics and historical contexts in which concepts arose; applications of mathematics in various settings; analyses of common problems of high school mathematics from a deeper mathematical level; demonstrations of alternate ways of approaching problems, including ways with and without calculator and use of technology; connections between ideas that may have been studied separately in different courses; and relationships of ideas studied in school to ideas students may encounter in later study. Prerequisite: "C" or better in MATH 212 and MATH 240. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

MATH 331 Abstract Algebra I. Rings and elementary theory of rings: internal domains, fields, homomorphism, isomorphism, polynomial rings, quotient rings and ideals. We will also include an introduction to other algebraic groups and the elementary theory of groups: subgroups, isomorphism, Lagrange's theorem, normal subgroups and quotient groups. Prerequisite: "C" or better in MATH 300. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

MATH 332 Abstract Algebra II. Euclidean Domains, Principal Ideal Domains, Unique Factorization domains, Field Extensions, Galois Theory and Sylow Theorems. Other topics on application of abstract algebra will also be included. Prerequisite: "C" or better in MATH 331. 3 semester credit hours. Typically offered: Spring Term, Even Years.

MATH 341 Real Analysis I. Topological properties of Euclidean spaces, limits of sequences and functions and continuity and differentiability for functions of one variable. Prerequisite: "C" or better in MATH 212, and in MATH 240 or MATH 300. 3 semester credit hours. Typically offered: Fall Term, Even Years.

MATH 342 Real Analysis II. Integrability, sequences of functions and infinite series. Prerequisite: "C" or better in MATH 341. 3 semester credit hours. Typically offered: Spring Term, Odd Years.

MATH 350 Complex Variables. Complex numbers and their geometric representation, analytic functions, elementary functions, transformations, complex integration, Taylor and Laurent series, and the calculus of residues, conformal mapping and applications to hyperbolic geometry. Prerequisite: "C" or better in MATH 212. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

MATH 361 Fourier Analysis and Boundary Value Problems. Fourier series and their applications; Fourier Integral Representation; Sturm-Liouville Problems; techniques for solving partial differential equations (PDEs); heat equation, wave equation and potential equation in Cartesian, polar and cylindrical coordinates; Laplacian operator; and Bessel functions and their applications. Prerequisite: "C" or better in MATH 260. 3 semester credit hours. Typically offered: Fall Term, Even Years.

MATH 365 Vector Analysis. Vector algebra; vector integration and differentiation; the del operator; the gradient, divergence and curl; line and surface integrals; the main integral theorems of vector analysis - Stokes' Theorem., Green's Theorem and Divergence Theorem.; tensor notation; and curvilinear coordinates. Prerequisite: "C" or better in MATH 212. 3 semester credit hours. Typically offered: Periodically.

MATH 370 Theory of Interest. Topics include measurement of interest, various types of annuities, yield rates, amortization schedules, sinking funds, bonds and securities. Prerequisite: "C" or better in MATH 211. 3 semester credit hours. Typically offered: Spring Term, Odd Years.

MATH 371 Probability and Statistics I. Discrete and continuous probability distributions, moments and mathematical expectation, moment generating functions, conditional probability and expectation, and multivariate distributions. Prerequisite: Credit or coregistration in MATH 212. 3 semester credit hours. Typically offered: Fall Term, Even Years.

MATH 373 Probability and Statistics II. Sampling distributions, estimation, tests of hypotheses, least squares and regression, correlation, introduction to Bayesian analysis and analysis of variance. Prerequisite: "C" or better in MATH 371 and MATH 212. 3 semester credit hours. Writing Intensive Course. Typically offered: Spring Term, Odd Years.

MATH 380 Numerical Analysis. Numerical methods for isolating roots, solving systems of linear equations, interpolation, and evaluating derivatives and definite integrals. Prerequisite: "C" or better in MATH 211 and programming experience. 3 semester credit hours. Typically offered: Periodically.

MATH 381 Numerical Analysis Practicum. A hands-on experience with issues in numerical analysis. Topics may include the application of parallel processing capabilities to numerical problems, extend accuracy computations, computational aspects of large physical problem modeling, or experimental relationships between accuracy and complexity in numerical computations. Prerequisite: Credit or coregistration in MATH 380. 1 semester credit hour. Typically offered: Periodically.

MATH 385 Introduction to Modern Cryptology. Cryptology concerns communicating in the presence of an adversary with goals like preservation of privacy and integrity of communicated data. Topics include rigorous mathematical description of various symmetric (i.e., private key) and asymmetric (i.e., public key) cryptographic methods including substitution ciphers, block ciphers, RSA, the discrete logarithm problem, and other applications with emphasis on "provable security." Prerequisite "C" or better in MATH 212 or MATH 240. 3 semester credit hours. Typically offered: Spring Term, Even Years.

MATH 390 Selected Topics. Lectures on miscellaneous topics with which the student has not become acquainted in formal course work. May be an extension of, or a supplement to, material previously encountered or material from a completely new area. 3 semester credit hours.
Department Consent Required.

MATH 395 Independent Study. Designed to encourage superior students to continue the study of mathematics beyond the scope of undergraduate course offerings, through guided independent study. 1-3 semester credit hours. *Department Consent Required.*

MATH 397 Mathematical Research. Original research in mathematics or mathematics education conducted under the supervision of a faculty member. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 3.*

MATH 399 Internship. Practical experience in mathematics or related career fields under the supervision of the Mathematics faculty. 3-6 semester credit hours. *Department Consent Required.*

MATH 95 Intermediate Algebra. Topics include real numbers, linear equations, exponent, polynomials, rational expressions, radicals and quadratic equations. Prerequisite: Placement exam. 3 semester credit hours. Typically offered: Fall and Spring Terms.

Medical Humanities

MDHM 200 Introduction to Medical Humanities. Provides an introduction to the interdisciplinary fields of study that characterize the discipline as well as to the Benedictine major program. Required for all Medical Humanities majors. 3 semester credit hours.

MDHM 399 Medical Humanities. Group or independent research and coursework to culminate in a senior project with a hands-on experiential component. Offered periodically. 3 semester credit hours. Typically offered: Periodically.

Military Science

MSCI 101 Foundations of Officership. This course is an introduction to fundamental components of service as an officer in the United States Army. These initial lessons form the building blocks of progressive lessons in values, fitness, leadership and officership. This course also addresses "life skills" including fitness, communications theory and practice (written and oral), interpersonal relationships and the ethics of Christian service. Emphasis on "hands-on" learning also includes blocks of instruction map reading, orienteering, marksmanship and rappelling, as well as weekly leadership laboratories, one weekend field trip and physical training. Upon completion of this semester, the cadets should be prepared to receive more complex leadership instruction. 2 semester credit hours.

MSCI 102 Basic Leadership. Builds upon the fundamentals introduced in the previous semester by focusing on leadership theory and decision-making. "Life skills" lessons in this semester include: problem-solving, critical thinking, leadership theory, followership, group interaction, goal setting and feedback mechanisms. Upon completion of this semester, cadets should be prepared to advance to more complex leadership instruction concerning the dynamics of organizations. Additionally, they will be increasingly required to demonstrate knowledge of leadership fundamentals and communications (written and oral). Again, "hands-on" learning also includes blocks of instruction on map reading, orienteering, marksmanship and rappelling, as well as weekly leadership laboratories, one weekend field trip and physical training. 2 semester credit hours.

MSCI 123 Military Science Leadership Lab. Practical application of military skills taught in MSCI basic and advanced courses. Hands on training in basic soldier's skills, squad and platoon tactics, weapons, communications and organizational leadership.

MSCI 201 Individual Leadership Studies. This course builds on the fundamentals introduced in the first year curriculum. Using practical exercise, cadets must increasingly apply communications and leadership skills to solve increasingly complex problems. The course concludes with a major leadership and problem-solving case study which draws on virtually all of the classroom instruction received in the first three semesters of the Basic Course. The course also includes one weekend field trip, weekly leadership laboratories and physical training. Upon completion of this semester, cadets should be well grounded in the fundamental principles of leadership, and be prepared to intensify the practical application of their studies during the Advanced Course. 2 semester credit hours. *Department Consent Required.*

MSCI 202 Leadership and Teamwork. Basic Course capstone course focuses principally on officership, providing an extensive examination of the unique purpose, roles and obligations of commissioned officers. It includes a detailed look at the origin of our institutional values and their practical application in decision-making and leadership. Introduces fundamentals and principles of small unit tactics. Upon completion of this semester, cadets should possess a fundamental understanding of both leadership and officership, demonstrate the ability to apply this understanding in real world situations, and be excited about the aspect of shouldering the responsibility of a commissioned officer in the United States Army. Includes one weekend field trip, weekly leadership laboratories and physical training. 2 semester credit hours. *Department Consent Required.*

MSCI 225 Leader's Training Course (LTC). An alternative to the Basic Course above, LTC offers a possibility for students who have not considered ROTC until late in their sophomore year an opportunity for a scholarship and entry into the Advanced Course. The sole purpose for attending LTC is to qualify for the Advanced Course. Students contract prior to attending, and therefore must be American citizens to attend. LTC is a 28-day summer training course conducted at Fort Knox, Kentucky, designed to teach the fundamentals of soldiering and leadership and to enhance personal confidence using practical, hands-on exercises including: land navigation, rifle marksmanship, first aid, individual and unit tactics, obstacle courses and rappelling. Military pay approximately \$750. (optional 4 hours credit incurs special tuition charge.) 4 semester credit hours. *Department Consent Required.*

MSCI 301 Leadership and Problem Solving. Focus of instruction is on leadership competencies using small unit operations as the primary mode of instruction. Cadets assume leadership positions within the Rolling Thunder Battalion, and actually apply the theory they have learned in the basic course by planning and executing small unit training. The semester begins with instruction in the Leadership Development Process (LDP) used throughout the academic year and at NALC to assess and develop leadership. Cadets will focus on troop leading procedures, motivational theory, small unit training, operations orders and risk assessment. Course includes weekly leadership lab, one weekend field trip and physical training. 4 semester credit hours. *Department Consent Required.*

MSCI 302 Leadership and Ethics. A continuation of MSCI 331 emphasizing doctrinal leadership and tactical operations at the small unit level. It includes opportunities to plan and conduct individual and collective skill training for offensive operations to gain leadership and tactical experience. This critical semester synthesizes the various components of training, leadership and team building taught over the last three years, and prepares cadets for their summer experience at NALC. Course includes weekly leadership lab, one weekend field trip and physical training. 4 semester credit hours. *Department Consent Required.*

MSCI 303 Leadership and Management. Focusing on leadership, management and ethics, MSCI 401 begins the final transition from cadet to lieutenant. The course focuses cadets, early in the year, on attaining apprentice level knowledge and proficiency in several critical areas they will need to operate effectively as Army officers, including coordinating activities with staffs, counseling theory and practice within the "Army Context," training management and ethics. Cadets will continue to sharpen these skills as they perform their roles as cadet officers in the Rolling Thunder Battalion and after commissioning. At the end of this semester cadets should possess the fundamental skills, attributes and abilities to operate as competent leaders in the cadet battalion and confidently communicate to subordinate cadets their preparedness to shoulder the responsibilities entrusted to them. Course includes weekly leadership lab, one weekend field trip and physical training. 4 semester credit hours. *Department Consent Required.*

MSCI 304 Officership. A continuation of MSCI 303, MSCI 304 completes the transition from cadet to lieutenant. As a follow-on to the Ethics instruction in MS 303, the course starts with a foundation in the legal aspects of decision making and leadership. The next modules reinforce previous instruction on the organization of the Army, introduce how we organize for operations from the tactical to strategic level, and introduce administrative and logistical management issues that focus on the fundamentals of soldier and unit level support. The final module that introduces new information focuses on the often confusing process of changing duty stations and reporting to a new unit. Upon completion of this semester, the cadets will be prepared to shoulder the responsibility of being a commissioned officer in the United States Army. Course includes weekly leadership lab, one weekend field trip and physical training. 4 semester credit hours. *Department Consent Required.*

MSCI 335 National Advanced Leadership Camp (NALC). Approximately 3,500 cadets nationwide will attend NALC at Fort Lewis, Washington each year. An advanced course requirement, NALC provides an opportunity to live and work with other cadets from around the country for 35 days. NALC is a performance based environment in which cadets can exercise their leadership skills in a variety of field and garrison activities, and cadre can assess leadership potential. Military pay approximately \$1,100. Prerequisite: MSCI 302. (Optional 4 hours credit incurs special tuition charge.) 4 semester credit hours. *Department Consent Required.*

MSCI 343 American Military History. Taught at Wheaton College by the professor of Military Science for a \$25 cross enrollment fee. Introduces cadets to American military history using principles of warfare, threads of continuity, battle analysis and oral biographies. This course is required for commissioning. 2 semester credit hours. *Department Consent Required.*

MSCI 401 Leadership and Management. Focusing on leadership, management and ethics, MSCI 401 begins the final transition from cadet to lieutenant. The course focuses cadets, early in the year, on attaining apprentice level knowledge and proficiency in several critical areas they will need to operate effectively as Army officers, including coordinating activities with staffs, counseling theory and practice within the "Army Context," training management and ethics. Cadets will continue to sharpen these skills as they perform their roles as cadet officers in the Rolling Thunder Battalion and after commissioning. At the end of this semester, cadets should possess the fundamental skills, attributes and abilities to operate as competent leaders in the cadet battalion, and confidently communicate to subordinate cadets their preparedness to shoulder the responsibilities entrusted to them. Course includes weekly leadership lab, one weekend field trip and physical training. 4 semester credit hours. *Department Consent Required.*

MSCI 402 Officership. A continuation of MSCI 303, MSCI 304 completes the transition from cadet to lieutenant. As a follow-on to the Ethics instruction in MSCI 303, the course starts with a foundation in the legal aspects of decision-making and leadership. The next modules reinforce previous instruction on the organization of the Army, introduce how we organize for operations from the tactical to strategic level, and introduce administrative and logistical management issues that focus on the fundamentals of soldier and unit level support. The final module that introduces new information focuses on the often confusing process of changing duty stations and reporting to a new unit. Upon completion of this semester, the cadets will be prepared to shoulder the responsibility of being a commissioned officer in the United States Army. Course includes weekly leadership lab, one weekend field trip and physical training. 4 semester credit hours. *Department Consent Required.*

MSCI 403 American Military History. Taught at Wheaton College by the professor of Military Science for a \$25 cross enrollment fee. Introduces cadets to American military history using principles of warfare, threads of continuity, battle analysis and oral biographies. This course is required for commissioning. 2 semester credit hours. *Department Consent Required.*

MSCI 495 Independent Study. A self-paced study at the advanced level focusing on Military Science. 1-4 semester credit hours. *Course Repeatable. Maximum number of units allowed 4.*

Music

MUSI 100 Introduction to Music Theory, Composition and Performance. A survey course intended to develop the understanding of musical elements and form with the goal of preparing the student for the study of applied music. Basic skills in theory, composition and performance will be taught. Awareness and understanding of how music as a subject relates to other arts and sciences will also be developed. 3 semester credit hours. Music Core Elective.

MUSI 101 Music Theory I. Reviews fundamentals of music theory. Examines basic theoretical elements in music including major and minor scales, chord progressions and form as they apply to musical specific examples. Coregistration MUSI 112 and MUSI 194 required for music majors. Coregistration MUSI 112 required for music minors. 3 semester credit hours. Music Core Elective. Typically offered: Fall Term. *Department Consent Required.*

MUSI 102 Music Theory II. Works with basic theoretical elements applying them to harmonization and simple modulations. Introduces simple forms including binary and ternary. Coregistration with MUSI 113 and MUSI 195 are required. 3 semester credit hours. Typically offered: Spring Term.

MUSI 104 Music Appreciation: Medieval to Contemporary. This course explores the history of Western Classical Music by focusing on each of its eras. It also offers access to various ways to listen to music and how to take full advantage of concert attendance. Provides detailed explanations and sound demonstrations of the basic musical elements and performing media. IAI F1 900. 3 semester credit hours. Music Core Elective. Typically offered: Periodically.

MUSI 105 Music Appreciation: Medieval to Baroque. Eight week modular course. Student cannot receive credit for MUSI 105 or 106 if MUSI 104 has been completed. 2 semester credit hours. Music Core Elective.

MUSI 106 Music Appreciation: Classical to Contemporary. Eight week modular course. Student cannot receive credit for MUSI 105 or 106 if MUSI 104 has been completed. 2 semester credit hours. Music Core Elective.

MUSI 112 Aural Skills I. Begin training of musical skills relating to pitch and rhythmic recall and recognition. Students will develop the ability to sing melodies in pitch and rhythm. Progression through Aural Skill courses dependent on course sequence or proficiency testing. Coregistration with MUSI 101 and MUSI 194. 1 semester credit hour. Music Core Elective. Typically offered: Fall Term.

MUSI 113 Aural Skills II. Second course in training of musical skills relating to pitch and rhythmic recall and recognition. Students will develop the ability to sing melodies in pitch and rhythm. Progression through Aural Skill courses dependent on course sequence or proficiency testing. Prerequisite: MUSI 101/112 or proficiency. Coregistration with MUSI 102 required. 1 semester credit hour.

MUSI 121 Concert Band. A performing ensemble dedicated to the study and performance of the wind band repertoire. Standard and new compositions will be performed in concerts each semester. IAI MUS 908. Music Core Elective. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 14.*

MUSI 122 Concert Choir. A performing ensemble utilizing practical work and study of choral literature of all periods of music in concerts each semester. IAI MUS 908. Music Core Elective. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 14.*

MUSI 125 Chamber Music Ensemble. Chamber Music Ensemble is a performing ensemble dedicated to the mastery of performance technique through intimate ensemble experiences. Heightened teamwork, communication and music reading skills are stressed. A closer association with the audience is developed providing the music student, vocal or instrumental, the ability to have and increased understanding of the impact their music making has on the community. Coregistration

in 200 or 300 level applied music. 1 semester credit hour. Music Core Elective. *Course Repeatable. Maximum number of units allowed 14.*

MUSI 126 Percussion Ensemble. A performing ensemble consisting of mixed percussion instruments. Performances each semester. IAI MUS 908. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 1.*

MUSI 128 Jazz Eagles. A small mixed ensemble that performs standards of the jazz repertoire, improvisation and ensemble skills. Prerequisite: Audition required. Concurrent registration in applied instruction with an emphasis in jazz techniques. Music Core Elective. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

MUSI 129 Chamber Orchestra. Music Core Elective.

MUSI 130 Woodwind Methods. Study of the technical and artistic aspects of playing instruments in the woodwind family with emphasis on the repertoire used in teaching applied lessons in the elementary, junior high and high school levels. Students are required to perform basic pieces to show their competency in each of the instruments. 2 semester credit hours.

MUSI 131 Brass and Percussion Methods. Study of the technical and artistic aspects of playing instruments in the Brass and Percussion families with emphasis on the repertoire used in teaching applied lessons in the elementary, junior high and high school levels. Students are required to perform basic pieces to show their competency in each of the instruments. 2 semester credit hours.

MUSI 132 String Methods. Study of the technical and artistic aspects of playing instruments in the string family with emphasis on the repertoire used in teaching applied lessons in the elementary, junior high and high school levels. Students are required to perform basic pieces to show their competency in each of the instruments. 2 semester credit hours.

MUSI 133 Vocal Methods. Study of the technical and artistic aspects of playing instruments in the voice family with emphasis on the repertoire used in teaching applied lessons in the elementary, junior high and high school levels. Students are required to perform basic pieces to show their competency in each of the instruments. 2 semester credit hours.

MUSI 140 Applied Instrumental: Non-Keyboard. All individual applied instruction classes must be taken in sequence. Students enrolled in these classes are required to pay a special applied fee. Non-music majors enroll in 100-level applied instruction. Advancement into 200- and 300-level applied instruction occurs through placement and proficiency testing. Music majors will enter at the 200-level applied instruction. Advancement into the 300 level will occur through placement and proficiency testing. IAI MUS 909. 1 semester credit hour. Music Core Elective. *Course Repeatable. Maximum number of units allowed 4.*

MUSI 144 Applied Keyboard. All individual applied instruction classes must be taken in sequence. Students enrolled in these classes are required to pay a special applied fee. Non-music majors enroll in 100-level applied instruction. Advancement into 200- and 300-level applied instruction occurs through placement and proficiency testing. Music majors will enter at the 200-level applied

instruction. Advancement into the 300 level will occur through placement and proficiency testing. IAI MUS 909. 1 semester credit hour. Music Core Elective. *Course Repeatable. Maximum number of units allowed 4.*

MUSI 148 Applied Voice. All individual applied instruction classes must be taken in sequence. Students enrolled in these classes are required to pay a special applied fee. Non-music majors enroll in 100-level applied instruction. Advancement into 200- and 300-level applied instruction occurs through placement and proficiency testing. Music majors will enter at the 200-level applied instruction. Advancement into the 300 level will occur through placement and proficiency testing. IAI MUS 909. 1 semester credit hour. Music Core Elective. *Course Repeatable. Maximum number of units allowed 4.*

MUSI 190 Class Instruction in Voice. For the student who wants to learn to sing but has never studied voice or cannot read music. 2 semester credit hours. Music Core Elective. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 4.*

MUSI 191 Class Instruction in Voice II. For the student who wants to continue to learn to sing but has never studied voice other than MUSI 190. 2 semester credit hours.

MUSI 194 Keyboard Skills. Class instruction in piano: For the beginning piano student who prefers to learn in a group setting. 2 semester credit hours. Music Core Elective. *Course Repeatable. Maximum number of units allowed 4.*

MUSI 195 Class Instruction in Piano II. To be taken after the completion of MUSI 194. Prerequisite: MUSI 194. 2 semester credit hours.

MUSI 196 Class Instruction in Voice. For the beginning vocal student who prefers to learn in a group setting. 2 semester credit hours.

MUSI 198 Class Instruction in Guitar. For the beginning guitar student who prefers to learn in a group setting. 2 semester credit hours. Music Core Elective.

MUSI 199 Class Instruction in Guitar II. For the beginning student who wants to continue to learn to play the acoustic guitar. Student must supply the instrument. Prerequisite: MUSI 198. 2 semester credit hours.

MUSI 201 Theory III. An advanced theory course designed to cover chordal structures, formal analyses, development of aural skills, inversions, non-diatonic harmony and sight-singing. IAI MUS 903. Prerequisite: MUSI 102. Coregistration with MUSI 212 required. 3 semester credit hours. Typically offered: Fall Term.

MUSI 202 Music Theory IV. A continuation of MUSI 201 with emphasis on 20th century procedures and theoretical concepts. IAI MUS 904. Coregistration with MUSI 213 required. 3 semester credit hours. Typically offered: Spring Term.

MUSI 204 Music Literature. The study and exploration of the Western Music composed during the Baroque, Classical, Romantic and Contemporary periods. This music literature (i.e. musical scores) will be examined according to each significant genre, utilizing the composers from these periods as a frame of reference and discussion. Significant non-musical areas that influenced changes (such as religion, politics, technology and historical events) will also be investigated. Emphasis will be placed upon developing listening skills, score analysis and the ability to generalize music listening activities to music not previously encountered from these periods. IAI MUS 905. 3 semester credit hours. Music Core Elective. Typically offered: Periodically.

MUSI 205 Music History I. Studies the origin and development of music from the ancient times through the Medieval, Renaissance and Baroque periods. Special emphasis is placed on the crucial events, individuals and genres that were developed and produced during this time. Analyzes and focuses on the cultural contributions and pedagogical implications of the significant epochs of this era. IAI F1 902. Prerequisite: MUSI 102. 3 semester credit hours. Music Core Elective. Typically offered: Fall Term.

MUSI 206 Music History II. Studies the origin and development of music from the Classical through the modern periods. Special emphasis is placed on the crucial events, individuals and genres that were developed and produced during this time. Analyzes and focuses on the cultural contributions and pedagogical implications of the significant epochs of this era. IAI F1 902. Spring. Prerequisite: MUSI 102, MUSI 205. 3 semester credit hours. Typically offered: Spring Term.

MUSI 207 World Music. An investigation of the diverse cultures as represented by their music. Native instruments, production strategies and theoretical analyses provide the student with a foundation to better understand the role music plays both in these cultures as well as our own. The course focuses on non-western music. IAI F1 903N. 3 semester credit hours. Music Core Elective. Typically offered: Fall Term.

MUSI 208 Women in Music. This course examines the role of women in Western music, which has historically been de-emphasized or even ignored until recently. The full extent of musical endeavors among women will be investigated along with some of the factors which accounted for the treatment many of these important composers and performers have received in the past. The primary focus will be directed toward Western art music, although contemporary and popular examples will also be presented. 3 semester credit hours. Music Core Elective. Typically offered: Spring Term.

MUSI 209 The Psalms. A historical study of the Psalms that examines their literary form through music from the Biblical times to the present and exegeses. Their relevancy and prayerful application in our daily lives are examined. 3 semester credit hours.

MUSI 210 Jazz History and Appreciation. Jazz is America's original art form that reflects the cultural diversity that gave rise to it. African, Caribbean, European and Brazilian influences upon jazz as well as the impact of jazz on other forms of music will be discussed. The class will focus upon its historical development from pre-Civil War through the 20th century, reflecting upon both its sacred and secular manifestations. The basic elements of music that distinguish jazz from other musical genres will be explored. The course seeks to cultivate an appreciation of the major figures within jazz

history (such as Armstrong, Parker, Ellington, Monk, Davis and Coltrane), their stylistic innovations and contributions to American culture. 2 semester credit hours. Music Core Elective.

MUSI 211 Rock History and Appreciation. This course explores the formative influences that gave rise to rock and pop music. It identifies its major figures, innovators and their contributions, as well the various styles that have developed in its history. The impact of social trends on rock music and the influence of rock music on society are explored, as well as the role that technology has played in rock's evolution. Finally, other forms of music that have assimilated elements of rock music are identified and examined. 2 semester credit hours. Music Core Elective.

MUSI 212 Aural Skills III. Third course in training of musical skills relating to pitch and rhythmic recognition. Students will develop the ability to sing melodies in pitch and rhythm. Progression through Aural Skill courses dependent on proficiency testing. Prerequisite: MUSI 101/112 and 102/113 or proficiency. Coregistration with MUSI 201 recommended. 1 semester credit hour. Typically offered: Fall Term.

MUSI 213 Aural Skill IV. Fourth course in training of musical skills relating to pitch and rhythmic recognition. Students will develop the ability to sing melodies in pitch and rhythm. Progression through Aural Skill courses dependent on proficiency testing. Prerequisites: MUSI 101/112, 102/113, and 201/212 or proficiency testing. Coregistration with MUSI 202 required. 1 semester credit hour. Typically offered: Spring Term.

MUSI 217 Vocal Diction. An advanced course in the study of English, Italian, Latin, German and French diction. The proper formation of vowel sounds, rules to follow in singing situations and the International Phonetic Alphabet will be emphasized. This course will require research skills and include practicum experiences. Prerequisite: Coregistration with MUSI 348. Applied voice or consent of instructor. 3 semester credit hours. Typically offered: Fall Term, Even Years.

MUSI 218 Music and the Mind. This course combines popular and academic sources in an overview of writers, thinkers and researchers and their viewpoints regarding what it means to be musical. Special focus will be given to how people think and act musically. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

MUSI 240 Applied Instrumental: Non-Keyboard. All individual applied instruction classes must be taken in sequence. Students enrolled in these classes are required to pay a special applied fee. Non-music majors enroll in 100-level applied instruction. Advancement into 200- and 300-level applied instruction occurs through placement and proficiency testing. Music majors will enter at the 200-level applied instruction. Advancement into the 300 level will occur through placement and proficiency testing. IAI MUS 909. 2 semester credit hours. Music Core Elective. *Department Consent Required. Course Repeatable. Maximum number of units allowed 8.*

MUSI 241 Sophomore Year Observation Experience. The student will visit a host school to observe rehearsals, classes, contribute to special projects as proposed by the host teacher, and ask pertinent questions to the host teacher relating to the teaching and management of a band or choir class. This is a 12-week program course designed to cover a wide range of educational experiences (four-week elementary school observation, four-week junior high school observation and a four-week high

school program observation). The students will record their experiences in a journal for revision and assessment by a Benedictine University teacher. 48 hours of observation to be completed.

MUSI 242 Junior Year Observation Experience. The student will visit a host school to observe and teach short sections of rehearsals, classes, sectionals, write lessons plans to teach a music history or music theory class, teach exceptional children and teach a culturally diverse classroom. The student will choose two age levels for observation (six weeks of elementary level classes, six weeks of junior high classes and/or six weeks of high school classes). The students will record their experiences in a journal for revision and assessment by a Benedictine University teacher. 48 hours of observation to be completed.

MUSI 244 Applied Keyboard. All individual applied instruction classes must be taken in sequence. Students enrolled in these classes are required to pay a special applied fee. Non-music majors enroll in 100-level applied instruction. Advancement into 200- and 300-level applied instruction occurs through placement and proficiency testing. Music majors will enter at the 200-level applied instruction. Advancement into the 300 level will occur through placement and proficiency testing. IAI MUS 909. 2 semester credit hours. Music Core Elective. *Course Repeatable. Maximum number of units allowed 8.*

MUSI 248 Applied Voice. All individual applied instruction classes must be taken in sequence. Students enrolled in these classes are required to pay a special applied fee. Non-music majors enroll in 100-level applied instruction. Advancement into 200- and 300-level applied instruction occurs through placement and proficiency testing. Music majors will enter at the 200-level applied instruction. Advancement into the 300 level will occur through placement and proficiency testing. IAI MUS 909. 2 semester credit hours. Music Core Elective. *Course Repeatable. Maximum number of units allowed 8.*

MUSI 250 Junior Recital. Preparation and presentation of a solo performance program. Weekly mentoring sessions until performance will include practice with the accompanist, discussion of proper performance etiquette and the preparation of program notes. Co-registration with Applied Music at the 200 level and consent of department. 1 semester credit hour. Music Core Elective. *Department Consent Required.*

MUSI 291 Topics:. Special course focusing on topics related to the needs and interests of the student. Topics to include areas of music literature, theory and pedagogy. 1-3 semester credit hours. Typically offered: Periodically.

MUSI 303 Technology for Music Teachers. This course surveys the standard music technology software and hardware used in music education today. Emphasis will be given to the areas of pedagogy, composition, music theory and performance. 3 semester credit hours.

MUSI 313 Music Pedagogy. An advanced course focusing on the development of music teaching skills. Particular emphasis will be made in accordance to the needs of the students enrolled. Students will learn the principles, techniques and materials necessary for applied music instruction in studio and classroom settings. Current trends and teaching strategies for diverse student abilities and need are examined. Methods for teaching basic skills in music reading, listening and arranging will be

presented in the course. Prerequisite: 300 level applied instruction. 3 semester credit hours. Typically offered: Fall Term, Even Years.

MUSI 323 Music Practicum. This course is designed to give students supervised practical application of previously studied music theory in music and experienced through applied music and ensembles. The areas of music arranging, conducting, and orchestration will be studied with special attention to their practical use in the current music business environment. The use of music technology to prepare assignments will also be a component of the course. Prerequisite: Junior Standing. 3 semester credit hours. Typically offered: Spring Term, Odd Years.

MUSI 340 Applied Instrumental: Non-Keyboard. All individual applied instruction classes must be taken in sequence. Students enrolled in these classes are required to pay a special applied fee. Non-music majors enroll in 100-level applied instruction. Advancement into 200- and 300-level applied instruction occurs through placement and proficiency testing. Music majors will enter at the 200-level applied instruction. Advancement into the 300 level will occur through placement and proficiency testing. 2 semester credit hours. Music Core Elective. *Department Consent Required. Course Repeatable. Maximum number of units allowed 8.*

MUSI 342 Senior Year Observation Experience. The student will visit a host school to observe and teach extended sections of rehearsals, classes, sectionals, write lessons plans to teach a music history or music theory class, teach exceptional children, and teach a culturally diverse classroom. The student will choose two age levels for observation (six weeks of Elementary level classes, six weeks of Junior high classes, and/or six weeks of High school classes). The students will record their experiences in a journal for revision and assessment by a Benedictine University teacher. 100 hours of observation to be completed. 3 semester credit hours.

MUSI 344 Applied Keyboard. All individual applied instruction classes must be taken in sequence. Students enrolled in these classes are required to pay a special applied fee. Non-music majors enroll in 100-level applied instruction. Advancement into 200- and 300-level applied instruction occurs through placement and proficiency testing. Music majors will enter at the 200-level applied instruction. Advancement into the 300 level will occur through placement and proficiency testing. 2 semester credit hours. Music Core Elective. *Course Repeatable. Maximum number of units allowed 8.*

MUSI 348 Applied Voice. All individual applied instruction classes must be taken in sequence. Students enrolled in these classes are required to pay a special applied fee. Non-music majors enroll in 100-level applied instruction. Advancement into 200- and 300-level applied instruction occurs through placement and proficiency testing. Music majors will enter at the 200-level applied instruction. Advancement into the 300 level will occur through placement and proficiency testing. 2 semester credit hours. Music Core Elective. *Course Repeatable. Maximum number of units allowed 8.*

MUSI 350 Senior Recital. Preparation and presentation of a full solo performance program. Weekly mentoring sessions until performance will include practice with the accompanist, discussion of proper performance etiquette and the preparation of program notes. Prerequisite: MUSI 250.

Coregistration with Applied Music at the 300 level. 2 semester credit hours. Music Core Elective.
Department Consent Required.

MUSI 351 Principles and Procedures in Music Education. This course surveys contemporary music education learning and pedagogical theories. Principles and practices of curriculum design applied to the development of the music curriculum. Individual or group work on elementary and secondary school music curriculum projects. 3 semester credit hours.

MUSI 352 Instrumental and Choral Conducting. Overview of choral conducting patterns. Score, voice and instrumental warm-up, and intonation. Tempo fluctuation, left hand, diction, discipline. Designed for music and music education majors. 3 semester credit hours.

MUSI 353 Instrumental and Choral Ensemble Literature. An advanced course focusing on the literature of choral and instrumental ensembles. Particular emphasis will be given to the ensemble literature needs of the student learners at the elementary, junior high and high school levels. Students enrolled in this course will learn the principles, techniques and materials necessary for teaching the choral and instrument ensemble literature. Current trends and teaching strategies for diverse student abilities and needs are examined. Methods for teaching basic skills in music reading, listening and arranging will be presented in the course. Prerequisite: MUSI 202 3 semester credit hours.

MUSI 354 Teaching K-12 Classroom. The study of concepts and processes specific to and necessary for effective instruction in K-12 music education. Students explore various elementary and secondary music methods in both a classroom setting and in workshops by specialists in the field. 3 semester credit hours.

MUSI 360 Senior Seminar: Professional Portfolio. The students will analyze the job markets and prepare analyses of current issues in the performing arts. Analyses of demographics affecting the operations and organization of art programs in the United States will be studied. Students will be required to create a portfolio of personal data to prepare for job searches, prepare for mock interviews and present exhibition of works. Prerequisite: Junior Standing 3 semester credit hours. Fine Arts Core and Writing Intensive. Typically offered: Spring Term.

MUSI 391 Topics. Special course focusing on various topics relating to the needs of the students and recent events and/or topics of interest. Topics to include areas of music literature, history, theory and pedagogy. 1-3 semester credit hours. Typically offered: Periodically.

MUSI 395 Independent Study. A course in which the student, under the supervision of the teacher, may study any one of the current music courses in an individual and independent manner. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 3.*

MUSI 397 Internship. A practical course intended to give those students who are qualified an opportunity to observe - either in a classroom or privately - or to perform any practical job associated with his or her field under the supervision of the faculty. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

MUSI 398 Student Teaching. The student will choose a school to student teach for a 16-week period. Students are expected to be ready to teach and prepare lesson plans, rehearse and teach sectionals, teach applied lessons, assist the host band or choir director in daily classroom tasks, teach a class using a lesson plan and give a test, conduct the band or choir during a concert. The students will record their experiences in a journal for revision and assessment by a Benedictine University teacher. 12 semester credit hours. *Department Consent Required.*

Natural Sciences

NTSC 107 Earth and Space Science. A physical science laboratory course that includes the study of key principles of Earth and Space Science through the investigation of real world problems. The earth science component includes the study of large-scale dynamic forces, events and processes that affect the Earth's land, water and atmospheric systems, identification and evaluation of the uses of the Earth's resources, and the processes involved in the life cycle. The space science component focuses on concepts that explain the composition, structure of and changes in the universe and Earth's place in it. By working and studying within the context of a real world problem, students learn how scientific principles are used and applied in everyday life. IAI P1 909. 4 semester credit hours. Typically offered: Spring Term.

NTSC 111 Contemporary Biology. This course includes the study of key principles of the Biological Sciences through the investigation of real world problems. Topics include molecular and cellular biology, genetics, evolution, ecology, organismal biology and diversity. By including the science and technology history of the real world problems, students will learn how scientific principles are used and applied in everyday life, and understand how advancements in these principles influence "problem-solving" paradigms in science and technology. The course will facilitate the students' understanding of the scientific method by utilizing "hands-on science," inquiry-based and field-based laboratory experiments. Prerequisite: MATH 110 or equivalent. 3 semester credit hours. Life Science Core Elective. Typically offered: Fall Term.

NTSC 112 Contemporary Physical Science. A physical science laboratory course that includes the study of key principles of physics through the investigation of a real world problem (or problems). Topics include displacement, velocity, acceleration, force, momentum, work, energy, electricity, thermodynamics, optics and modern physics. By working and studying within the context of the "real world" problem, students learn how scientific principles are used and applied in everyday life. They also come to understand how advancements in these principles influence "problem-solving" paradigms in science and technology. The course facilitates the students' understanding of the Scientific Method by utilizing "hands-on science" and "inquiry-based" laboratory experiments. Prerequisite: MATH 110 or equivalent. 3 semester credit hours. Physical Science Core Elective. Typically offered: Spring Term, Odd Years.

NTSC 151 Natural Science Interdisciplinary Laboratory I. An integrated laboratory course intended to teach the philosophy and practice of experimental aspects of science. Students will learn skills related to laboratory safety, ethics, data acquisition and analysis, experimental design and the scientific method. Methods and instrumentation of laboratory investigation that are common to the disciplines of biology and chemistry will provide the focus for student development of a standard set of laboratory skills and techniques. The rationale behind experimental protocols and principles of

up-to-date methodology and laboratory techniques are discussed in lectures and practiced in the laboratory. Prerequisites: Credit or co-registration in MATH 210 or higher and credit or coregistration in BIOL 197 or BIOL 198 and/or CHEM 113. NOTE: Satisfactory completion of NTSC 151 and NTSC 152 (3 semester credit hours) is equivalent to, and may be substituted for BIOL 199 (1 semester credit hour), CHEM 114 (1 semester credit hour), and CHEM 124 (1 semester credit hour). 1.5 semester credit hours. Life Science Core Elective. Typically offered: Fall Term.

NTSC 152 Natural Science Interdisciplinary Laboratory II. This course is a continuation of NTSC-151 and the study and practice of methods and instrumentation of laboratory investigation that are common to the disciplines of biology and chemistry. Both courses will provide the focus for student development of a standard set of laboratory skills and techniques that will be used in upper level courses. Prerequisites: Credit or coregistration in MATH 210 or higher and credit or coregistration in BIOL 197 or BIOL 198 and /or CHEM 113. NOTE: Satisfactory completion of NTSC 151 and NTSC 152 (3 semester credit hours) is equivalent to, and may be substituted for BIOL 199 (1 semester credit hour), CHEM 114 (1 semester credit hour), and CHEM 124 (1 semester credit hour). 1.5 semester credit hours. Life Science Core Elective. Typically offered: Spring Term.

NTSC 200 Natural Science Teaching. Teaching assistant. 1-2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

NTSC 210 Science and the Humanities. An integrative course of the sciences and humanities based on how different disciplines form the foundation on which the process of scientific investigation rests. Satisfies the HUMN-SCI core for the Bachelor of Arts in Biology degree. Prerequisite: Sophomore Standing. 3 semester credit hours. Life Science Core Elective. Typically offered: Periodically.

NTSC 398 College of Science Summer Research. This is a 0 semester credit hour class which outlines the duties of the students who participate in the College of Science Research Program. Only a pass/fail grade will be given. Students who successfully complete the requirements will receive a passing grade. Students sign up for the class at the beginning of summer and the grade will be posted when all requirements are completed. The latest assignments of grades will be in the spring semester of the following year. Typically offered: Summer Term. *Department Consent Required. Course Repeatable. Maximum number of units allowed 0.*

Nuclear Medicine Technology

NMTC 304 Nuclear Science. Origins and nature of nuclear and atomic radiation, interaction of radiation with matter, radiation detectors, detection systems and radiation safety. Lecture and laboratory. Intended for any qualified science student. 2 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

NMTC 331 Management and Methods of Patient Care I. Skills in problem-solving, critical thinking and decision-making are developed as well as oral and written communication skills. Career skills are enhanced through the interview process, resume writing and administrative duties including budgeting, medical and legal considerations, and political issues affecting health care. Special

emphasis is placed on participation in a quality control program and scheduling guidelines. Focus on basic measures necessary to provide quality patient care. Basic principles of record keeping and maintaining confidentiality of information are explained. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 3 semester credit hours. *Department Consent Required.*

NMTC 332 Radiation Safety and Protection. Supervised practice and procedures for the receipt, handling, transporting, storage, usage, record keeping, disposal and decontamination of radioactive materials. Emphasis on licensing and regulations set forth by local, state and federal agencies. Academic and clinical instruction to provide the student with radiation safety techniques to minimize exposure to themselves, the patient, public, fellow workers and themselves. Regulations regarding therapeutic dosages and follow-up procedures. 3 semester credit hours.

NMTC 333 Radiation Physics and Instrumentation. Theory and physical principles associated with atomic structure, nucleus and quantum physics related to radioactive decay. Properties of the elements and the production of characteristic X-rays and gamma rays, alpha electrons and Bremsstrahlung. Instruction on the modes of decay, radiation dosimetry and interaction of ionizing with matter. Basic physics, instrumentation and radiochemistry of Positron Emission Tomography (PET). Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 3 semester credit hours. *Department Consent Required.*

NMTC 334 Diagnostic Nuclear Imaging Clinical Practicum I. Supervised clinical education that gives the student the opportunity to perform a variety of patient procedures on both SPECT and PET imaging systems for all diagnostic, therapeutic, non-imaging in-vivo and in-vitro procedures. Clinical competencies developed in patient care, positioning techniques, analyzing images and the selection of imaging parameters and collimators. Knowledge of integrated computer systems designed for use with clinical gamma cameras, Single Photon Emission Computed Tomography (SPECT) and Positron Emission Tomography (PET) images. The clinical practicum is designed to promote independent critical thinking, balanced responsibility, organization and accountability in the student. Students will demonstrate competence in all procedures presented. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 4 semester credit hours. *Department Consent Required.*

NMTC 335 Clinical Nuclear Medicine Procedures I. Emphasis on theory and techniques of clinical procedures used in nuclear medicine imaging. Areas emphasized include patient care, developing acquisition parameters, imaging techniques, radionuclide identification, energies, half-lives and principles of radionuclides in imaging and non-imaging procedures. Students will continue to develop an increased degree of competence in their performance of the skills related to critical thinking and problem-solving. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 3 semester credit hours. *Department Consent Required.*

NMTC 336 Radionuclide Chemistry and Radiopharmacy. The chemical, physical and biological properties of radiopharmaceuticals used in diagnosis and therapy. Emphasis is given to the preparation, calculation, identification, administration and disposal of radiopharmaceuticals. Performance of all radionuclide quality control and quality assurance procedures. Principles of decay and half-life, tissue localization, chemical impurities, generator systems, dose preparation and techniques of good laboratory practices. 3 semester credit hours.

NMTC 337 Radiation Biology. Knowledge of cell structure and function as a basis for understanding cellular and organ responses to the effects of ionizing radiation, radionuclides and radiation oncology. Understanding units of exposure, organ dose calculation and body distribution. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 1 semester credit hour. *Department Consent Required.*

NMTC 338 Computer Applications. Knowledge of the operations and maintenance of computer hardware and software. Emphasis on data collection, analysis and processing used in clinical imaging. Application of computer devices and memory usage. Emphasis on SPECT and PET quality control procedures. 3 semester credit hours.

NMTC 339 Clinical Correlation-Pathology. Focus on the study of the structure and function of human cells, tissues, organs and systems. Clinical interpretation of organ systems with emphasis on immunology and anatomy and physiology which will provide a basis for understanding abnormal or pathological conditions as applied to nuclear medicine. Causes, symptoms and treatments of disease are discussed as well as its effect on the images. In addition, the student is scheduled to observe the interpretation of images with the physician staff. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 2 semester credit hours. Typically offered: Annually. *Department Consent Required.*

NMTC 340 Radiation Detection and Instrumentation. Evaluation, maintenance and function of instrumentation used in imaging and in the laboratory. Principles and theory of PET and scintillation camera operation and performance. Radiation measurement, event counting activity, pulse height spectra, detection efficiency, resolving time and statistics. Flood field and bar phantom use for assessing camera uniformity, relative sensitivity, spatial linearity and resolution testing. Quality assurance procedures for the PET scanner include radial, tangential and axial resolution, sensitivity, linearity, uniformity, attenuation accuracy, scatter determination and dead time corrections. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 3 semester credit hours. *Department Consent Required.*

NMTC 341 Technical Mathematics. Practical mathematics in nuclear medicine including, radiation unit conversion, dose calculation, determination of specific activity, decay and half-life calculation, counting efficiency and statistics. 1 semester credit hour.

NMTC 342 Management and Methods of Patient Care II. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 1 semester credit hour. Typically offered: Annually. *Department Consent Required.*

NMTC 344 Diagnostic Nuclear Imaging Clinical Practicum II. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 4 semester credit hours. *Department Consent Required.*

NMTC 345 Clinical Nuclear Medicine Procedures II. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 3 semester credit hours. Typically offered: Annually. *Department Consent Required.*

NMTC 348 Computed Tomography and Cross-Sectional Anatomy. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 2 semester credit hours. Typically offered: Annually. *Department Consent Required.*

NMTC 349 Medical Terminology. Prerequisite: Must be accepted into the Nuclear Medicine Technology Program. 1 semester credit hour. Typically offered: Annually. *Department Consent Required.*

Nursing and Health

NRHL 200 Nursing Transitions. A bridge course that introduces the philosophy and concepts of baccalaureate nursing. Emphasis is placed on the components of professional nursing practice and supporting theories. 3 semester credit hours.

NRHL 213 Health Aspects of Aging. Focuses upon the normal aging process in American Society including biological, psychological and health aspects. Emphasis is placed on health services, health maintenance and contemporary issues with respect to the elderly population. 3 semester credit hours. Life Science Core Elective.

NRHL 250 Statistics. Basic course in statistical techniques which includes measures of central tendency, probability, sampling, estimation and hypothesis testing. For nursing majors. 3 semester credit hours.

NRHL 290 Health Assessment. Presents the theory and process of health assessment. Focuses on history, physical examination, screening tests and resultant nursing diagnoses. Clinical Lab provides for application of skills. 3 semester credit hours.

NRHL 295 Research. Explores the research process as it applies to nursing and health care. Emphasis is placed on analysis and critique of research studies. 3 semester credit hours.

NRHL 300 Transforming Care. Explores the concepts of quality, safety and informatics appropriate to providing care within health care organizations. 3 semester credit hours.

NRHL 301 Family Health Nursing. Provides students with a foundation in the concepts/theories of family health care nursing. Selected clinical experiences emphasize application of family nursing principles. 4 semester credit hours. Writing Intensive Course.

NRHL 311 Community Health Nursing. Explores the physical, social, economic and environmental factors which affect the health of a community. Selected field experiences emphasize applying nursing process to population groups and communities. 3 semester credit hours.

NRHL 320 Health Systems. Overview of the history, basic structures and operations of public health and health care delivery systems. 3 semester credit hours.

NRHL 378 Leadership and Management. Introduces the functions of management within a rapidly changing health care environment. Emphasis is on current issues impacting leadership and management within nursing practice. 3 semester credit hours. Typically offered: Spring Term.

NRHL 381 Health Promotion and Interprofessional Collaboration. This course provides an in-depth review of approaches to health promotion as well as effective collaboration among members of the health care community. Students explore the problems and issues in using behavioral and social science theories, concepts and data to inform health promotion and health education research and interventions. The course emphasizes developing appreciation for the diversity of expertise in interprofessional collaborative teams as well as establishing basic concepts of effective teamwork. Admission to the RN-to-BSN-to-MSN academic progression bridge is required. A letter grade of "B" is required in order for this course to meet MSN program requirements. Cross listed with NRHL 501. 3 semester hours. Typically offered: Fall, Spring and Summer Terms.

NRHL 382 Ethical and Culturally Competent Health Care Professional. This course draws upon philosophy, ethics and the social sciences to examine key concepts of professional practice that form the foundations for leadership, including professional obligations, duties, rights and cultural competence. Coursework leads to an increased understanding of interplay among socio-cultural contexts, ethics and cultural beliefs about health and illness. Basic principles of epidemiology, community-based assessment and evaluation, issues of equity and the risks to vulnerable populations are explored. Students also study the role of the educator, administrator and social change agent to explore what it means to be a culturally competent, ethical health care professional and leader in health systems or education. Admission to the RN-to-BSN-to-MSN academic progression bridge is required. A letter grade of "B" is required in order for this course to meet MSN program requirements. Cross listed with NRHL 502. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

NRHL 383 Evidence Based Nursing Practice: Research and Process Improvement. This course provides students with skills required to systematically research and evaluate current nursing knowledge to promote evidence-based nursing practice. Coursework emphasizes critical analysis of the current literature and proposed research methods, including quantitative and/or qualitative approaches to research, sampling procedures, data collection methods and data analysis planning. Research topics such as ethical and cultural issues, methodological procedures associated with scientific investigation, and potential barriers to evidence-based practice are also course themes. Students are encouraged to critically analyze differing research paradigms as well as current issues surrounding evidence-based research. Admission to the RN-to-BSN-to-MSN academic progression bridge is required. A letter grade of "B" is required in order for this course to meet MSN program requirements. Cross listed with NRHL 503. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

NRHL 384 Health Care Informatics and Emergent Technologies. This course teaches nurses to consider technical, user and environmental factors in the selection and use of clinical information systems that support nursing care and decision-making processes in various settings. Students gain an understanding of technology, data, human processing and standards related to clinical information systems, and how these elements are used to make evidence-based decisions in health

care systems and services. Admission to the RN-to-BSN-to-MSN academic progression bridge is required. A letter grade of "B" is required in order for this course to meet MSN program requirements. Cross listed with NRHL 504. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

NRHL 385 Health Care Policy and Advocacy. This course provides an overview of health care policy, organization and financing with emphasis on current industry trends. Students assess the atmosphere in which policy is created and how compromise and bargaining shape policy decisions. Current policy initiatives involving health care delivery as well as nursing are analyzed. Coursework emphasizes the role of the nurse as a health care leader and advocate in the health care policy formation process. Admission to the RN-to-BSN-to-MSN academic progression bridge is required. A letter grade of "B" is required in order for this course to meet MSN program requirements. Cross listed with NRHL 505. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

NRHL 386 Quality Improvement and Safety in Health Care Systems. This course analyzes problems caused by the varying levels of health care quality and strategies for improving them using models of evaluation and process improvement. Students learn to apply principles of quality and regulatory management with an emphasis on defining, measuring and evaluating outcomes within organizations and systems to become effective leaders and change agents. Students are expected to participate in the development of actual quality measures and explain how such measures could be used in a defined health or educational system. Admission to the RN-to-BSN-to-MSN academic progression bridge is required. A letter grade of "B" is required in order for this course to meet MSN program requirements. Cross listed with NRHL 506. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

NRHL 395 Nursing Elective. Guides independent study in theoretical or clinical aspects of nursing. Prerequisite: NRHL 378 and WRIT 102. 1-3 semester credit hours. *Department Consent Required.*

Nutrition

NUTR 100 Impact of Nutrition. For non-majors. An introduction to nutrients; the cultural, socioeconomic and other influences on nutrition intake; the impact of nutrition on health status; and issues of hunger and malnutrition. (NOTE: Cannot receive credit for NUTR 100, 200, and 201). IAI L1 904. 3 semester credit hours. Life Science Core Elective. Typically offered: Fall, Spring and Summer Terms.

NUTR 150 Food Service Sanitation. An overview of applied Food Service Sanitation as it relates to proper food handling and training in the food service industry. Emphasis placed on prevention of food borne illness. At the completion of the course, students will take the Illinois Certification exam from the Educational Foundation of the National Restaurant Association. 1 semester credit hour. Typically offered: Spring Term.

NUTR 190 Selected Topics in Nutrition. Special topics in nutrition adjusted to the needs of students. Topics may be changed so that the course may be repeated for credit. 1-3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 18.*

NUTR 200 Nutritional Science. An integrated approach to the study of the requirements and functions of nutrients that are determinants of health and disease in human populations. (NOTE: Cannot receive credit for NUTR 100, 200, and 201). 3 semester credit hours. Life Science Core Elective. Typically offered: Fall, Spring and Summer Terms.

NUTR 201 Nutrition in Health and Exercise. An integrated approach to the study of the requirements and functions of nutrients with particular attention to applications in sports. (NOTE: Cannot receive credit for NUTR 100, 110, 200 and 201). Prerequisite: Physical Education (major, sophomore standing or higher). 3 semester credit hours. Life Science Core Elective. Typically offered: Fall Term. *Department Consent Required.*

NUTR 241 Nutrition through the Life Cycle. A life cycle approach to nutrition science which incorporates nutrient availability, function and sources, energy balance, health risk factors and special nutrient needs for various stages of the life cycle. Prerequisite: Nutrition Major (for Lisle campus only, not Mesa coded sections) 3 semester credit hours. Life Science Core Elective. Typically offered: Fall and Spring Terms.

NUTR 244 Food Science. A study of the physical and chemical composition, structure and functional properties of carbohydrates, proteins and fats; sensory evaluation principles; and applications to food and nutritional health. Prerequisite: CHEM 101 or CHEM 123. 3 semester credit hours. Typically offered: Fall Term.

NUTR 245 Food Science Laboratory. Applied sensory and physiochemical examination of study of the composition, structure and functional properties of carbohydrates, proteins and fats. Prerequisite: transfer course or co-registration in NUTR 244. Lab fee: \$160. 1 semester credit hour. Typically offered: Fall Term.

NUTR 246 Experimental Foods Laboratory. Experimental application of physiochemical behavior of food. Includes recipe development/research. Prerequisite: NUTR 244 and 245; and acceptance into the Dietetics program, a Health Education concentration or consent of the department. Lab fee: \$160. 1 semester credit hour. Typically offered: Spring Term.

NUTR 250 Foodservice Operations. This course presents the following food service principles: menu planning, purchasing and procurement, production, distribution and service, quality improvement, and layout and design. Prerequisite: NUTR 200 or 241 or 244. 3 semester credit hours. Typically offered: Fall and Spring Terms.

NUTR 251 Nutritional Biochemistry. A study of the basic concepts of biochemistry applied to cellular metabolism of carbohydrates, lipids, amino acids, vitamins and co-factors. Emphasis is placed on metabolic pathways, the interrelationships of major nutrients and the relation of the metabolic processes to the overall nutritional health of an individual. Prerequisite: CHEM 103 or CHEM 123. 3 semester credit hours. Typically offered: Spring Term.

NUTR 271 Nutrition and Health Education. Nutrition and health education for groups and individuals. Examination of health behavior change theories and the development of competencies of health educators. Focus on processes of assessing needs, assets and capacity as well as planning

for health education. Introduction to the evaluation process. Prerequisite: credit or co-registration in NUTR 200 or 201 or 241. 3 semester credit hours. Typically offered: Fall and Spring Terms.

NUTR 280 Community Health and Nutrition. Identification of current public health nutrition problems; influence of socioeconomic, cultural and psychological factors on food, nutrition and health behavior; available community health programs; program development and marketing; and advocacy and public policy legislation. Prerequisite: NUTR 200 or 241; or junior standing by credits with co-registration in NUTR 241 and consent. 3 semester credit hours. Typically offered: Spring Term.

NUTR 290 Selected Topics in Nutrition:. Special topics adjusted to the needs of the students. Topics may be changed so that the course may be repeated for credit. 1-3 semester credit hours. *Course Repeatable. Maximum number of units allowed 18.*

NUTR 295 Nutrition Teaching. Supervised teaching of nutrition in laboratories. Prerequisite: NUTR 245, 246 or 298; Nutrition majors only. 1 semester credit hour. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

NUTR 296 Community Health Practicum. Experience designed to meet interest of an individual student and serve a community need. Off-campus site. Transportation required. Prerequisite: Nutrition majors only; additional coursework, credit and GPA prerequisite are determined by nature of experience. Fee: \$27.50. 1-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

NUTR 297 Quantity Foods Practicum. Supervised experience in foodservice operations and management, with emphasis on areas related to menu planning, food purchasing, cost control, production, quality improvement, and applied sanitation and safety. May be at off-campus sites. Transportation may be required. Prerequisite: NUTR 250, 3.0 GPA and nutrition majors only. 2-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. 2-3 semester credit hours. Typically offered: Summer Term. Department Consent Required.*

NUTR 298 Cultural Foods. An overview of the food habits of world cultures, including discussion of ways in which food, food production, food consumption and food rituals are associated with cultural norms, health and behaviors, social conventions, religious practices, and individual and group ways of living. Laboratory component provides exposure to traditional foods and cooking techniques. Prerequisite: NUTR 244 and 245; co-registration lecture and lab (NUTR 298 A and B). \$160 2 semester credit hours. Typically offered: Fall and Spring Terms.

NUTR 300 Nutritional Aspects of Disease. Pathophysiology, symptoms and effects of disease associated with inadequate nutrition and excess. Topics include malnutrition, disordered eating and obesity, cardiovascular disease, hypertension and diabetes. Applications to clinical and community settings. (Not for students accepted into the Dietetics concentration). Prerequisites: BIOL 258; and NUTR 200 or 241; and credit or coregistration in NUTR 251 or BCHM 251. 4 semester credit hours. Typically offered: Fall Term.

NUTR 341 Medical Nutrition II. Physiological and biochemical aspects of nutrient metabolism; interrelationships between cellular reactions, nutrition and health; biochemical and physiological principles of nutrition for obesity, eating disorders, alcohol metabolism, inborn errors and the nervous system. Prerequisite: BIOL 108 or BIOL 198;; NUTR 200 or NUTR 201 or NUTR 241; BIOL 258 ; NUTR 251; and acceptance into the Dietetics Concentration or consent of the department. 3 semester credit hours. Typically offered: Spring Term.

NUTR 342 Applied Nutritional Physiology. This class is designed to provide a detailed survey of the literature related to the nutrition and physical activity aspects of Metabolic Syndrome Related Diseases. Students will be expected to have a comprehensive understanding of the epidemiology and scientific basis of Metabolic Syndrome. Detailed discussions will include CVD, diabetes, hypertension, obesity, hyperlipidemia and systemic inflammation as they relate to nutrition and physical activity. Prerequisite: NUTR 200 or 201 or 241; BCHM 251 or 261 and BIOL 258 (basic nutrition, biochemistry and physiology courses). Cross listed as NUTR 342/NUTR 542. 3 semester credit hours. Typically offered: Spring Term.

NUTR 345 Science of Nutrition and Fitness. The course examines the metabolic and physiologic basis for macronutrient and micronutrient recommendations during training, competition/performance and recovery. Includes disease applications, recommendations for targeted educational interventions and case studies. Prerequisite: BIOL 258; NUTR 251 or BCHM 251 or 261; and NUTR 200 or 201 or 241. Cross listed as NTR 530. 3 semester credit hours. Typically offered: Spring Term.

NUTR 350 Food and Nutrition Services Management. This course presents the students with information regarding the key concepts of organization structure and management principles including fiscal control, performance measurements, human resource and information management, and marketing. Prerequisite: NUTR 250 and credit or concurrent registration in MGT/PSYC 320 or MGT 330. 2 semester credit hours. Typically offered: Fall and Spring Terms.

NUTR 371 Medical Nutrition Therapy I. Pathology, treatment and nutritional therapy of chronic and acute diseases. Prerequisite: BIOL 258, NUTR 200 or 241, credit or registration in BCHM 251 or 261; and acceptance into the Dietetics Program or consent of the department.. 4 semester credit hours. Typically offered: Fall and Spring Terms.

NUTR 372 Clinical Nutrition Case Studies Lab. A problem-based learning approach to case studies integrated with a traditional didactic approach to foster development of independent critical thinking skills. Incorporates medical record reviews, development of clinical and education plans, and documentation techniques. Part of the course is supervised at an off-campus site. Transportation is required. Required at start of course are documentation of all vaccinations completed, TB test, background check and drug screen (information available to registered students at end of prior term). Credit or co-registration in NUTR 371 and 391; and acceptance into the Dietetics Program. Liability Fee \$27.50. 2 semester credit hours. Typically offered: Fall and Spring Terms.

NUTR 373 Advanced Menu Planning Lab. Applied process of translating the nutritional needs into menus for healthy persons and those with special dietary considerations throughout the life span. Includes management and quality improvement principles. Prerequisite: NUTR 250 and credit or

co-registration in NUTR 300 or 371; and acceptance into the Dietetics Program or consent of the department. 1 semester credit hour. Typically offered: Fall and Spring Terms.

NUTR 381 Behavioral and Social Aspects of Public Health. Addresses behavioral and social factors and theories related to individual and population health. Prerequisite: Senior standing. Note: This course is a cross-listed public health course (MPH 601). It does not count towards science core or major credit. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

NUTR 382 Public Health Systems. It explores the history, basic structures and operations of public health and health care delivery systems based on Essential Public Health Services. Prerequisite: Senior standing. Note: This course is a cross-listed public health course (MPH 602). It does not count towards science core or major credit. 3 semester credit hours. *Department Consent Required.*

NUTR 383 Ethical and Political Issues. Applies basic principles of ethical analysis (e.g. Public Health Code of Ethics, human rights framework and other moral theories) to issues of public health practice and policy. Prerequisite: Senior standing. Note: This course is a cross-listed public health course (MPH 603). It does not count towards science core or major credit or PHIL core. 3 semester credit hours. *Department Consent Required.*

NUTR 390 Selected Topics. Special topics in nutrition adjusted to the needs of the students. Topics may be changed. Prerequisite: refer to the course schedule (usually NUTR 200 or 241, BCHM 261, BIOL 258). If course is a graduate course cross listed to NUTR, then completed application to MPH or MS program must be submitted to Benedictine graduate school. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

NUTR 391 Nutrition Assessment lab. . Professional practice roles, methods and skills. Emphasis on developing skills in medical terminology and nutrition assessment (i.e. anthropometrics and other body composition indicators, biochemical indices, clinical symptomatology and dietary intake) for health promotion and disease prevention. Learning experiences include practice. Transportation may be required. Prerequisite: Credit or co-registration in NUTR 300 or 371; and acceptance into the Dietetics Program or consent of the department. Lab fee: \$160. 1 semester credit hour. Typically offered: Fall and Spring Terms.

NUTR 392 Nutrition Research and Professional Writing. Critique nutrition literature as foundation to develop a professional manuscript, journal critique and write for public audiences. Prerequisite: WRIT 102; credit or concurrent registration in BIOL 229 or PSYC 150 or PSYC 250; and credit or concurrent registration in NUTR 300, 341 or 371. 2 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms.

NUTR 395 Nutrition Counseling Lab. Interviewing and counseling methods and techniques. Prerequisite: NUTR 271; and acceptance into the Dietetics Program or consent of the department. Nutrition majors only. 1 semester credit hour. Typically offered: Spring Term.

NUTR 396 Specialized Nutrition Practicum. Supervised experience designed to meet the interest of an individual student. May be at off-campus sites. Transportation may be required. Prerequisite: 3.0 GPA, Nutrition majors only; additional course prerequisites are determined by nature of experience. Fee: \$27.50. 2-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

NUTR 399 Nutrition Research. A supervised nutrition research project that is conducted on or off campus. Prerequisite: 3.2 GPA, Nutrition majors only. \$160 fee. 1-3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

Philosophy

PHIL 120 Greek Philosophy. A historical introduction to Greek thought. Fall. IAI H4 901. 3 semester credit hours. Philosophy Core Elective.

PHIL 191 Selected Topics. Special philosophical issues offered at the introductory level according to the interest of faculty and students. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

PHIL 200 Introduction to Logic. What is the difference between a sound and an unsound argument? How can one tell the difference between good reasoning and bad? What sorts of evidence should one accept for certain claims? As we pursue these questions, we will discuss and practice the fundamentals of both informal and formal logic. 3 semester credit hours. Philosophy Core Elective. Typically offered: Fall Term.

PHIL 205 Philosophy of Human Nature. Investigation of the classic questions regarding the human person: unity, freedom, death and immortality, mind-body relation and community. 3 semester credit hours. Philosophy Core Elective. Typically offered: Spring Term.

PHIL 210 Philosophy of Being. Examination of the basic principles of reality which affect all thought: change and permanence, unity in diversity, the meaning of existence, goodness, truth and beauty, the categories of being and the analogy of being. 3 semester credit hours. Philosophy Core Elective. Typically offered: Fall Term.

PHIL 215 Theory of Knowledge. Analysis of the nature, possibility, foundations and extent of human knowledge. 3 semester credit hours. Philosophy Core Elective. Typically offered: Fall Term.

PHIL 220 Mediterranean World. See HUMN 220. 3 semester credit hours. Typically offered: Annually.

PHIL 225 Medieval Philosophy. Survey of philosophy from Augustine to the 14th century. 3 semester credit hours. Philosophy Core Elective. Typically offered: Spring Term, Even Years.

PHIL 230 Contemporary Anglo-American Philosophy. This course is a survey of late 19th and 20th century English-speaking, British and North American Philosophies. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

PHIL 235 Modern Philosophy. Survey of philosophy from the 15th century to the early 19th century. 3 semester credit hours. Philosophy Core Elective. Typically offered: Fall Term, Even Years.

PHIL 240 Converging Hemispheres. See HUMN 240. 3 semester credit hours. Philosophy Core Elective. Typically offered: Fall Term.

PHIL 245 General Ethics. Investigation of ethical concepts and theories and an analysis of the norms of ethical decision. 3 semester credit hours. Philosophy Core Elective. Typically offered: Spring Term.

PHIL 246 General Ethics for the Bio-Medically-Minded. Course covers major schools of thought on ethics within the biomedical arena. 3 semester credit hours. Philosophy Core Elective.

PHIL 247 General Ethics for the Business-Minded. Course covers major schools of thought on ethics within the business arena. 3 semester credit hours. Philosophy Core Elective.

PHIL 248 General Ethics for the Ecology-Minded. Course covers major schools of thought on ethics within the environmental/ecology arena. 3 semester credit hours. Philosophy Core Elective.

PHIL 249 General Ethics for the Professional. Investigation of ethical concepts and theories and an analysis of the norms of ethical decision and the relationship of these to professionals in all fields. It provides a solid foundation in moral theory, recast in light of postmodern critiques of moral philosophy, together with diverse applications to help students understand the philosophical complexity of ethical challenges that arise for professionals in all types of work and can help students from all disciplines better understand how to resolve ethical challenges in the modern workplace. 3 semester credit hours. Philosophy Core Elective. Typically offered: Fall and Spring Terms.

PHIL 250 Contemporary World. See HUMN 250 with philosophical emphasis. 3 semester credit hours. Philosophy Core Elective. Typically offered: Spring Term.

PHIL 255 Contemporary Continental Philosophy. 3 semester credit hours. Philosophy Core Elective.

PHIL 260 Social and Political Philosophy. Course covers the philosophy of societal change, the forces that bring about change and the revolutionary potential of change. 3 semester credit hours. Philosophy Core Elective.

PHIL 265 Contemporary Anglo-American Philosophy. Course covers 19th and 20th century philosophical movements in America and Great Britain. 3 semester credit hours. Philosophy Core Elective.

PHIL 270 Medieval Philosophy. This course uses elements of fiction and non-fiction in the study of various topics of race, class and gender in American Studies (Topics vary). Cross listed with PHIL 370. 3 semester credit hours. Philosophy Core Elective.

PHIL 285 Topics in Philosophical Exploration of Religion. This course is an investigative exploration of some of the fundamental philosophical questions and relationships pertaining to the nature, practice and understanding of religion or Theology. 3 semester credit hours. Typically offered: Periodically.

PHIL 290 History and Philosophy of Science. Course covers the historical, philosophical and ethical questions of the scientific revolution through the present. 3 semester credit hours. Philosophy Core Elective.

PHIL 291 Philosophical Topics. Special philosophical issues offered at the intermediate level according to the interest of faculty and students. A topics course may apply toward the divisional core. 3 semester credit hours. Philosophy Core Elective. *Course Repeatable. Maximum number of units allowed 99.*

PHIL 295 Independent Study. Special philosophical issues offered according to the interest of faculty and students. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

PHIL 300 Intermediate Logic. 3 semester credit hours. Typically offered: Spring Term.

PHIL 315 Theory of Knowledge. Analysis of the nature, possibility, foundations and extent of human knowledge. 3 semester credit hours. Philosophy Core Elective.

PHIL 320 Medieval Philosophy. Survey of philosophy from Augustine to the 14th century. Spring, even years. 3 semester credit hours.

PHIL 325 Medieval Philosophy. Survey of philosophy from Augustine to the 14th century. 3 semester credit hours. Philosophy Core Elective.

PHIL 330 Contemporary Anglo-Amer Philosophy. This course is a survey of late 19th and 20th century English - speaking, British and North American Philosophies. 3 semester credit hours. Philosophy and Writing Intensive. Typically offered: Fall Term, Odd Years.

PHIL 335 Modern Philosophy. Survey of philosophy from Descartes to Kant. 3 semester credit hours. Philosophy Core Elective.

PHIL 345 Topics in Philosophical Ethics. 3 semester credit hours.

PHIL 346 Biomedical Ethics. In this class, students will investigate fundamental ethical questions pertaining to health, medicine and the life sciences. It is a course in applied ethics where general ethical theory is applied to the contemporary moral issues of medicine and biology. Prerequisite: A Philosophy course. 3 semester credit hours. Philosophy Core Elective. Typically offered: Spring Term.

PHIL 347 Ethics for the Business-Minded. Course covers major schools of thought on ethics within the business arena. 3 semester credit hours. Philosophy Core Elective.

PHIL 348 Ethics for the Ecologically Minded. Course covers major schools of thought on ethics within the environmental/ecology arena. 3 semester credit hours. Philosophy Core Elective.

PHIL 355 Philosophy of Law. Conceptual and moral investigation of the nature of the law and of practical legal issues, such as civil disobedience or the obligation to obey the law. 3 semester credit hours. Typically offered: Periodically.

PHIL 360 Social and Political Philosophy. Course covers the philosophy of societal change, the forces that bring about change and the revolutionary potential of change. 3 semester credit hours. Philosophy Core Elective.

PHIL 370 Medieval Philosophy. Survey of philosophy from Augustine to the 14th Century. Cross listed with PHIL 270. 3 semester credit hours. Philosophy Core Elective. Typically offered: Spring Term, Even Years.

PHIL 385 Topics in Philosophical Exploration of Religion. This course is an investigative exploration of some of the fundamental philosophical questions and relationships pertaining to the nature, practice, and understanding of religion or Theology. 3 semester credit hours. Typically offered: Periodically.

PHIL 390 History and Philosophy of Science. Course covers the historical, philosophical and ethical questions of the scientific revolution through the present. 3 semester credit hours. Philosophy Core Elective. *Department Consent Required.*

PHIL 391 Selected Topics. Special philosophical issues offered at the advanced level according to the interest of faculty and students. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

PHIL 395 Independent Study. Designed to encourage the superior student to study in depth and to research an area beyond the undergraduate course offerings. 3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

PHIL 397 Internship. Practical experience in a related career field under the supervision of the philosophy program. 3 semester credit hours. *Department Consent Required.*

Physical Education

PHED 103 General Physical Fitness. 1-3 semester credit hours.

PHED 107 Weight Training. This course includes the theory and practice of strength training including weights and other modes of resistive training. 1 semester credit hour. Typically offered: Fall Term. *Department Consent Required.*

PHED 200 Philosophy and Foundation of Physical Education. This course is an introduction to physical education as both an academic discipline and profession including philosophical and scientific principles, current trends and practices, and career opportunities. Physical Education advocacy techniques will also be introduced in this course. (To be taken concurrently with PHED 201). Prerequisite: PHED 201. 3 semester credit hours. Typically offered: Fall Term.

PHED 201 Assessment and Teaching for Lifetime Physical Fitness. This course provides students with an understanding of the positive impact of healthy life style choices. Students will learn self-management skills and goal setting as they design their personal fitness plans and then work on self-designed goals by participating in a fitness program during the course of the term. Includes classroom discussion and laboratory experiences to assess an individual's current wellness needs. Students will also participate in self-directed activities outside the classroom to achieve goals. (To be taken concurrently with PHED 200). \$30 lab fee. 2 semester credit hours. Typically offered: Fall Term.

PHED 301 Officiating Fall Sports. 3 semester credit hours.

PHED 302 Kinesiology. This course is designed to study muscles and their role in the science of human motion. This course is based on anatomical and mechanical principles with emphasis on the analysis of human movements in games, sports other physical education skills, and basic movement activities. Laboratory experiences will also be provided to augment kinesiological concepts covered. Prerequisite: BIOL 155. 3 semester credit hours. Typically offered: Spring Term.

PHED 303 Sport Administration. This course provides information about the administration of athletic, fitness, and wellness facilities, and proper organizational, administrative, supervisory, and leadership procedures will be covered. Topics include, but are not limited to: budgeting, facility management, legal issues, record keeping, insurance, and technology in these settings. 3 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

PHED 305 Measurement and Evaluation for Physical Education. This course provides students with an understanding of current assessment techniques for physical education and physical fitness in order to select and use developmentally appropriate strategies and instruments that align with physical education learning goals. Students will also learn to apply performance data to make informed curricular decisions relative to the physical education program. 3 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

PHED 308 Administration of Physical Education. This course provides administrative concepts and application to physical education programs with an emphasis on leadership, program management, program evaluation, personnel, facilities, budgeting, and curriculum. Emphasis will be placed on current research and current program assessment techniques. 3 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

PHED 320 Physical Education Curriculum Design. this course will focus on the development and integration of a team building program into the overall school curricula. 3 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

Physics

PHYS 101 Physical Science. An introduction to the basic concepts of physics and scientific reasoning relating to the experiences encountered in the everyday physical environment. For non-science majors. IAI P9 900. Prerequisite for Phys 101: "C" or better in Math 095. 3 semester credit hours. Physical Science Core Elective. Typically offered: Fall and Spring Terms.

PHYS 105 Physical Geography. An introduction to hydrology and the physical processes operating in and on the planet earth. Topics of study will include ground and surface water, the hydrologic cycle, watershed models, groundwater recharge, geomorphology, tectonics, structural features, and geological processes relating to natural resource management, environmental processes and concerns. 3 semester credit hours. Physical Science Core Elective. Typically offered: Periodically.

PHYS 106 Astronomy. Examines astronomical phenomena and concepts including the solar system, stars, galaxies, planetary motion and the evolution of the universe. 3 semester credit hours. Physical Science Core Elective.

PHYS 107 Earth and Space Science. A physical science laboratory course that includes the study of key principles of Earth and Space Science through the investigation of real world problems. The earth science component includes the study of large-scale dynamic forces, events and processes that affect the Earth's land, water and atmospheric systems, identification and evaluation of the uses of the Earth's resources, and the processes involved in the life cycle. The space science component focuses on concepts that explain the composition, structure of and changes in the universe and Earth's place in it. By working and studying within the context of a real world problem, students learn how scientific principles are used and applied in everyday life. IAI P1 909. 4 semester credit hours. Typically offered: Spring Term.

PHYS 113 College Physics I. PHYS 113, 114, 118 and 119 constitute a complete non-calculus introductory physics sequence including laboratory for life sciences majors. Topics for PHYS 113 include vectors, classical mechanics, heat and wave phenomena. IAI P1 900; BIO 903. Prerequisite: "C" or better in MATH 111. 3 semester credit hours. Physical Science Core Elective. Typically offered: Fall and Summer Terms.

PHYS 114 College Physics I Lab. Selected experiments to illustrate the experimental methods and the principles studied in PHYS 113. IAI P1 900L; BIO 903. Prerequisite: credit or coregistration in PHYS 113. 1 semester credit hour. Physical Science Core Elective. Typically offered: Fall and Summer Terms.

PHYS 118 College Physics II. Topics include electromagnetism, introductory circuits, geometrical and physical optics, atomic physics and nuclear physics. IAI MTM 902L; BIO 904. Prerequisite: "C" or better in PHYS 113. 3 semester credit hours. Physical Science Core Elective. Typically offered: Spring and Summer Terms.

PHYS 119 College Physics II Lab. Selected experiments to illustrate the concepts studied in PHYS 118. IAI MTM 902L; BIO 904. Prerequisite: "C" or better in PHYS 114 and credit or coregistration in

PHYS 118. 1 semester credit hour. Physical Science Core Elective. Typically offered: Spring and Summer Terms.

PHYS 205 University Physics I Lab. Laboratory course which introduces topics and concepts of introductory physics through the use of experimental methods and techniques. Topics to be covered include vectors, statics, dynamics, work, energy, collisions, rotational motion and gravitation. 1 semester credit hour. Physical Science Core Elective. Typically offered: Fall Term. *Department Consent Required.*

PHYS 206 University Physics II Lab. Laboratory course which introduces topics and concepts of introductory physics through the use of experimental methods and techniques. Topics to be covered include electromagnetism, introductory circuits, and geometrical and physical optics. Prerequisite: "C" or better in PHYS 205. 1 semester credit hour. Physical Science Core Elective. Typically offered: Spring Term.

PHYS 207 Modern Physics Lab. Experimental physics course designed to cover laboratory methods and techniques that apply to topics from Modern Physics. Topics to be covered include electron charge to mass ratio, crystal scattering, spectroscopy, blackbody radiation, scanning probe microscopy, photon, tunneling, lasers, semiconductor devices, holography, radioactive decay and the photoelectric effect. Prerequisite: Credit or coregistration in PHYS 213 or departmental consent. 1 semester credit hour. Typically offered: Fall Term. *Department Consent Required.*

PHYS 211 University Physics I. This course provides a calculus based introduction to mechanics, oscillations and waves. Topics include vectors, Newton's laws, kinematics, computational dynamics, projectile motion, work energy theorem, energy conservation, vibrations, gravitation, collisions and conservation of momentum, rotations, traveling and standing waves. The course begins with an introduction to mathematical and computational modeling in the physical and life sciences employing a discovery-based active learning approach using kinetic Monte Carlo simulation, algorithms, finite difference methods and calculus. It is recommended that students take PHYS 211 in the fall semester of their freshman year. Prerequisite: "B" or better in MATH 111 (Trigonometry), and "C" or better or coregistration in Math 210 (Calculus I). 4 semester credit hours. Physical Science Core Elective. Typically offered: Fall Term.

PHYS 212 University Physics II. Electric field and potential, dielectrics, magnetic forces and fields, electromagnetic induction, DC and AC circuits, EM waves, light and optics. It is recommended that students take PHYS 212 in the spring semester of their freshman year. Prerequisite: "C" or better in PHYS 211 and credit or coregistration in MATH 211 or MATH 221. 4 semester credit hours. Physical Science Core Elective. Typically offered: Spring Term.

PHYS 213 Modern Physics. An introduction to the fundamental concepts of modern physics and quantum mechanics for science and engineering students. The course begins by covering the basics of special relativity and quantum physics. This is followed by selected discussions based on student interest and time. Topics may include atomic and nuclear structure, band theory of solids, materials (e.g. granular, novel), particle physics and cosmology. IAI EGR 914. Prerequisite: "C" or better in PHYS 118 or PHYS 212 and credit or coregistration in MATH 212. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall Term.

PHYS 220 Analytical Mechanics. This course presents an intermediate treatment of Newton's law in various coordinate systems, projectile motion including air resistance, momentum, angular momentum, energy and conservative forces, driven and damped oscillators, nonlinear mechanics and chaos, Lagrange's equations, two body central force problems, mechanics in non-inertial frames, rotational motion of rigid bodies and coupled oscillators. The course introduces vector calculus, differential equations, complex numbers, Taylor series and matrices in the solutions to problems. IAI EGR 943. Prerequisite: "C" or better in PHYS 211 and MATH 211. Cross listed as PHYS/ENGR 220. 3 semester credit hours. Typically offered: Fall Term.

PHYS 264 Electronics. An integrated laboratory and lecture course designed to cover the basic principles of modern electronics. Topics include AC and DC circuits, linear and non-linear devices, power supplies, operational amplifiers and logic circuits. Lecture and laboratory work are integrated allowing the students to test the theory through projects that the students design and build. Prerequisite: "C" or better in PHYS 118 or 212 or departmental consent. Cross listed as PHYS/ENGR 264. 3 semester credit hours. Typically offered: Spring Term.

PHYS 291 Selected Topics. Current topics in physics or biophysics. Prerequisite: Dependent upon topic. 3 semester credit hours. Typically offered: Periodically.

PHYS 292 Research Literature. Discussion and application of online sources containing scientific publications and other information, e.g., SciFinder. The introduction of a report for a research project will be completed. 1 semester credit hour. Typically offered: Spring Term.

PHYS 296 Physics Teaching. Teaching assistant. 1-2 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

PHYS 304 Nuclear Science. Origins and nature of nuclear and atomic radiation, interaction of radiation with matter, radiation detectors, detection systems and radiation safety. Lecture and laboratory. Intended for any qualified sciences student. 2 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

PHYS 313 Classical Thermodynamics. Properties of gases, relating heat and work, concepts of enthalpy and entropy, heat engines, mixtures and phase changes. Prerequisite: "C" or better in CHEM 123, PHYS 212 and MATH 212. Cross listed as CHEM/PHYS 313. 3 semester credit hours. Typically offered: Fall Term.

PHYS 314 Physical Chemistry I Laboratory. Applies principles discussed in CHEM/PHYS 313. Prerequisite: Coregistration or credit in CHEM/PHYS 313. Cross listed as CHEM/PHYS 314. 1 semester credit hour. Writing Intensive Course. Typically offered: Fall Term.

PHYS 315 Quantum and Statistical Mechanics. Failures of classical physics, development of quantum theory, atomic structure and spectra, statistical mechanics and statistical thermodynamics. Prerequisites: "C" or better in CHEM/PHYS 313 and coregistration or credit in MATH 260 or 300. Cross listed as CHEM/PHYS 315. 3 semester credit hours. Typically offered: Spring Term.

PHYS 316 Physical Chemistry II Laboratory. Applies principles discussed in CHEM/PHYS 315. Prerequisite: Credit or coregistration in CHEM/PHYS 315. Cross listed as CHEM/PHYS 316. 1 semester credit hour. Writing Intensive Course. Typically offered: Spring Term.

PHYS 323 Biophysics. This course provides a calculus-based introduction to biophysics and physiological modeling. The course is an integrated lecture and computer lab experience that focuses on scientific modeling and hypothesis testing. Topics covered will be selected from: experimental data analysis; drug elimination (pharmacokinetics); single molecule biophysics; Poisson processes, ligand binding, enzyme kinetics and saturation, ion channel gating, motor proteins and dwell time distributions; molecular dynamics; transport diffusion and random walks; computational fluid dynamics; ion channel permeation and the action potential; osmosis, gastrointestinal and renal functioning; statistical thermodynamics and the second law; free energy transduction, passive transporters and active pumps; hemoglobin, oxygen transport and metabolism. Prerequisites: "C" or better in CHEM 113, CHEM 123, PHYS 212, and MATH 211 or 221. Cross listed as BIOL/CHEM/PHYS 323. 4 semester credit hours. Typically offered: Spring Term.

PHYS 325 Materials Science. This course will explore many of the synthetic (high-temperature, solvothermal, solution and flux crystal growth) and characterization (X-ray diffraction and Atomic Absorption) techniques common to solid-state/materials chemistry. Lecture and laboratory will be tightly integrated in a studio-style format. Individual, independent research projects aimed at the synthesis of novel inorganic materials will take the place of traditional experiments.. On-site powder X-ray diffraction instrumentation will allow for immediate characterization of synthetic products. 3 semester credit hours. Typically offered: Summer Term. *Department Consent Required.*

PHYS 340 Electricity and Magnetism I. Theoretical study of classical electrostatics and electrodynamics. Topics include vector calculus of the electromagnetic field, electric field and potential, conductors, Laplace equations, boundary value problems, multipoles, polarization, dielectrics, magnetostatics, divergence and curl of the magnetic field, magnetization, Ampere's law, electrodynamics, electromagnetic induction and Maxwell's equations, and an introduction to superconductivity formalism. Prerequisites: PHYS 118 or PHYS 212 and MATH 212. 3 semester credit hours. Typically offered: Periodically.

PHYS 357 Molecular Dynamics and Kinetics. Electric properties of molecules, molecular interaction, molecular motion, chemical kinetics and molecular reaction dynamics. Prerequisite: Credit or coregistration in CHEM/PHYS 315. Cross listed as CHEM/PHYS 357. 3 semester credit hours. Typically offered: Periodically.

PHYS 374 Experimental Modern Physics. A laboratory course designed to cover methods and topics in experimental physics for advanced science students. The course allows students to gain hands-on experience investigating topics that can include chemical physics, bio-physics, sensors, modern physics, optics, electronics and other advanced concepts with the goal of improving the connection between experimental results and theory. The experiments that will be covered in the course will vary from term to term depending on the interests of the students. Prerequisites: PHYS 207 and 213 or departmental consent. 2 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

PHYS 390 Selected Topics in Physics. Lecture course covering topics with which the student has not become acquainted in formal course work. May be an extension of or supplement to material previously encountered or material from a completely new area. Periodically. Prerequisite: PHYS 213 and MATH 260. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

PHYS 393 Internship. Practical experience in physics or related career areas under the supervision of the physics program. Prerequisite: consent of faculty coordinator. 1-3 semester credit hours. *Department Consent Required.*

PHYS 395 Independent Study. Designed to encourage desire in superior students to continue the study of physics beyond the scope of undergraduate course offerings through guided independent study. Prerequisite: departmental consent. 2 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

PHYS 398 Research. Original research in physics or biophysics conducted under the supervision of a faculty or adjunct faculty member. Publication and public presentation of the research are course objectives. 1-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

Political Science

PLSC 100 Principles of Politics. Analyzes the political process and institutions in the United States and foreign nations. IAI S5 903. 3 semester credit hours. Political Science Core Elect.

PLSC 101 Global Affairs. This course explores some of the major issues in contemporary world politics. The end of the Cold War and the demise of the bipolar superpower relationship has reverberated across all issues in international affairs. We will consider such international issues as military security, ethnicity and nationalism, the international economy, the environment and regional issues. Each week's readings presents an overview of the topic for that week, discussing the changing nature and relevance of the issue in light of the momentous changes taking place in the "world order." The final week will explore the role of the United States in this changing world. IAI S5 904N. 3 semester credit hours. Political Science Core Elect.

PLSC 102 American Government. Satisfies both the United States and Illinois Constitution requirements for teacher certification. IAI S5 900. Political Science majors and minors should take PLSC 103, Introduction to the American Political System. Credit will not be granted for both PLSC 102 and PLSC 103. 3 semester credit hours. Political Science Core Elect.

PLSC 103 Introduction to the American Political System. Introduces students to the American political system – its foundations, institutions, political processes and policy areas. Special focus on the role of citizens in America, how one can participate, when participation can make a difference and how one can even begin a career in government service. Course intended for Political Science majors and minors. Credit will not be granted for both PLSC 102 and PLSC 103. 3 semester credit hours.

PLSC 105 Law and Politics. An analysis of law, justice, rights, court procedures and legislation. The development of various concepts of law and individual and group rights. Credit will not be granted for both PLSC 105 and PLSC 205. 3 semester credit hours. Political Science Core Elect.

PLSC 128 Proseminar in Politics. Proseminar led by Distinguished Fellow Jim Ryan. Topics change every semester. 1 semester credit hour. *Course Repeatable. Maximum number of units allowed 9.*

PLSC 150 Introduction to Statistics. Basic course in statistical techniques which includes measures of central tendency, probability, sampling, estimation and hypothesis testing. For non-business majors. IAI M1 902. Prerequisite: "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

PLSC 201 State and Local Government. The inter-relationships between national, state, county and local governments. (Satisfies the Illinois Constitution requirement for teacher certification). IAI S5 902. 3 semester credit hours.

PLSC 205 Judicial Process. An introductory course, required for all majors and minors, designed to provide an in-depth understanding of the judicial process in the United States. Credit will not be granted for both PLSC 105 and PLSC 205. 3 semester credit hours.

PLSC 210 Introduction to International Relations. Analysis of the processes of interaction among nations and groups of nations within the international political system. IAI S5 904N. 3 semester credit hours. Political Science Core Elect.

PLSC 213 American Foreign Policy. This course offers an overview of recent American foreign policy and concentrates on both international and domestic pressures placed on foreign policy leaders. Students will participate in decision situations and debate policy options. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 215 Model United Nations. The use of simulation techniques to develop an understanding of the processes and operations of the United Nations. The course culminates with the students participating in the National Model United Nations. 3 semester credit hours. Political Science Core Elect. *Course Repeatable. Maximum number of units allowed 45.*

PLSC 216 Genocide: The Politics of Hate, Fear, Terror and Power. This is a survey course on genocide, one of the most controversial and deadly concepts in all of contemporary politics. We will learn how hate, fear, terror and power have repeatedly converged to produce the most deadly crime humanity has yet conceived. Genocide -- against Armenians in Turkey, The Holocaust, Cambodia's Killing Fields, Bosnia-Herzegovina, Rwanda, Kosovo, and Darfur -- has been a repeated policy used by murderous regimes of many types over the past 100 years. We will study these cases, and the general concept of genocide, in the context of basic themes from the Political Science fields of international relations, comparative politics and foreign policy studies. No pre-existing knowledge of or exposure to any of these areas is assumed or necessary. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 217 Revolutions and Political Violence. Analyzes theories of revolution and studies a variety of 20th century revolutions. Also considers concepts of terrorism, guerilla warfare and nonviolent revolution. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 218 Nationalism and Terrorism. This course applies theoretical and analytical tools from the fields of International Relations and Comparative Politics in an attempt to understand the two most serious threats of global security in the post-Cold War world – nationalism and terrorism. Most of the death due to political violence in recent years has been directly or indirectly linked to nationalist movements of terrorist methods. It is critical that citizens in democratic states be informed on these matters, to understand what they are and are not, in order to be responsible citizens. PLSC 103, 105, 205 or 210. 3 semester credit hours. Typically offered: Periodically.

PLSC 219 International Political Economy. Examines the politics of international economics, and to a lesser extent the economic determinants of international politics. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 220 Comparative Politics. Concerned with identification of political trends and empirical generalizations of selected political systems. IAI S5 905. 3 semester credit hours.

PLSC 222 Russian Politics in Comparative Perspective. Analyzes the politics, economics and social changes of post-communist states, comparing Russia's post-communist experience with that of other states in the former Soviet Union and Eastern Europe. The fundamental focus of all discussions and readings is on the requirements of and obstacles to the creation of a democratic political system. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 224 Democracy and Democratization. Examines the theory and practice of democracy around the world, and the question of "transitions to democracy" through analysis of the problems of creating a democratic political system. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 230 US Constitutional Law I. A study of the Constitution as a living and changing document underlying our entire system of government, and the role played by the judiciary in developing Constitutional law. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 231 Constitutional Law II. A study of the Constitution as a living and changing document underlying our entire system of government, and the role played by the judiciary in developing Constitutional law. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 236 Women in the Law. This course introduces students to basic concepts in the history and development of feminist thought while applying the knowledge to actual cases and legal situations affecting women. By examining the various controversies and problems that pervade this aspect of politics, students will achieve a greater awareness of how the American legal system helps to shape issues relating to gender. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours. Typically offered: Spring Term, Even Years.

PLSC 237 Mock Trial. An overview of the mechanics of courtroom procedure. Usually taught in conjunction with the mock trial competition. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Course Repeatable. Maximum number of units allowed 99.*

PLSC 240 CCL Public Service Fellow. Public Service Fellows register for this course as part of their requirements as a Fellow. Requirements variable, as determined by the Center for Civic Leadership director and communicated to Fellows upon their nomination. Typically offered: Fall and Spring Terms. *Department Consent Required.*

PLSC 241 Presidential and Congressional Politics. Study of the American presidency and the background, powers and relations with the other components of the political system. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 242 Congress and Legislative Process. Concentrates on the whole spectrum of the legislative process in the United States. Features simulation of the U.S. House. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 243 American Political Thought. Analyzes major American political theorists and the effects their thoughts have had on structuring our governmental institutions and shaping the political values and behavior of Americans. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 244 Democratic Citizenship. This is a seminar in which students will discuss and analyze the rights and responsibilities of citizenship and the importance and relevance of politics, government and public policy. The course includes a service learning component. 3 semester credit hours.

PLSC 245 Campaigns, Elections and Political Behavior. An analysis of individual and group political behavior within the context of the U.S. election system. Emphasis is placed on the nature of campaigns and the impact of elections on government. Class features student projects on campaign tactics and strategy. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 247 Politics and Religion in the United States and Beyond. The intersection of religion and politics from both a domestic and comparative perspective, including contemporary debates about political identities, secularization, modernization, culture, conflict and collaboration, is examined. Religious institutions will be evaluated as potential vehicles for citizen discourse and mobilization. The broader impact of religion in the public square is also assessed. Emphasis will be on domestic American politics, but many of these phenomena will also be considered from a comparative perspective. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 248 American Politics: Pressure Groups and Parties. The role of pressure groups and political parties and their impact upon the American political system. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 251 Introduction to Public Policy. This course serves as an introduction to the policy-making process, covering the various institutions, actors and procedures involved in getting an idea for solving a policy problem adopted into law and implemented. The themes discussed may be relevant at the local, state or national levels, and may include, but are not limited to, such matters as health,

education, environmental and fiscal policy issues. Prerequisite: PLSC 103, 105, 205, or 210. 3 semester credit hours.

PLSC 255 Environmental Politics. The politics of environmental protection and regulation in the United States and selected other countries. Prerequisite: PLSC 103, 105, 205 or 210, or Environmental Science Major. 3 semester credit hours.

PLSC 260 Politics and Film. A study of political themes as they appear in film and the use of film for political purposes. Specific topics vary. 3 semester credit hours. Typically offered: Periodically.

PLSC 291 Topics. A study of selected matter in the discipline of political science. Recent topics have included Politics of Western Europe and Politics of Soviet Union. Prospective topics may include Politics of Latin America, Politics of Southeast Asia, Politics of Sub-Sahara Africa and Feminist Politics. Prerequisite: PLSC 103, 105, 205 or 210. 1-3 semester credit hours. Typically offered: Fall Term. *Course Repeatable. Maximum number of units allowed 99.*

PLSC 295 Independent Study. Course work in political science in which the student, in cooperation with one of the faculty members, designs the course in some area of political science of interest to the student. 3 semester credit hours. *Department Consent Required.*

PLSC 296 Elections and Civic Responsibility. This seminar will examine the critical role citizens play in American constitutional democracy. Emphasis will be on state and federal elections in Illinois and the importance of voting rights and political participation. Students will be familiarized with Illinois election laws, voter registration requirements and the supervision of elections by state and local authorities. Guest speakers will include representatives from the DuPage Election Commission, who will outline the legal qualifications for becoming a qualified election judge and the Commission's role in guaranteeing the integrity of the electoral process.

As a central requirement of the course, students will complete the certification process to become election judges and will serve in that capacity on Election Day. Additional component: Certification to become an election judge and working a precinct on election day. 1 semester credit hour.

PLSC 297 Internship. Federal, state and local government institutions in the area serviced by the University offer opportunities for interested students to gain practical experience in governmental offices. Prerequisite: Junior or senior standing. 3 semester credit hours.

PLSC 299 Research Methods in Political Science. An analysis of the various theoretical approaches to the study of social sciences as well as discussion and completion of a scientific research design. Prerequisite: Senior standing; a grade of "C" or better in PLSC 103, 201, 210 and 105 or 205; a grade of "C" or better in a least one 300 level PLSC elective. 3 semester credit hours.

PLSC 313 American Foreign Policy. This course offers an overview of recent American foreign policy and concentrates on both international and domestic pressures placed on foreign policy leaders. Students will participate in decision situations and debate policy options. Prerequisite: PLSC 103. 3 semester credit hours.

PLSC 316 Genocide: The Politics of Hate, Fear, Terror and Power. This is a survey course on genocide, one of the most controversial and deadly concepts in all of contemporary politics. We will learn how hate, fear, terror and power have repeatedly converged to produce the most deadly crime humanity has yet conceived. Genocide -- against Armenians in Turkey, The Holocaust, Cambodia's Killing Fields, Bosnia-Herzegovina, Rwanda, Kosovo and Darfur -- has been a repeated policy used by murderous regimes of many types over the past 100 years. We will study these cases, and the general concept of genocide, in the context of basic themes from the Political Science fields of international relations, comparative politics and foreign policy studies. No pre-existing knowledge of or exposure to any of these areas is assumed or necessary. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 317 Revolutions and Political Violence. Analyzes theories of revolution and studies a variety of 20th century revolutions. Also considers concepts of terrorism, guerilla warfare and nonviolent revolution. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 318 Nationalism and Terrorism. This course applies theoretical and analytical tools from the fields of International Relations and Comparative Politics in an attempt to understand the two most serious threats of global security in the post-Cold War world - nationalism and terrorism. Most of the death due to political violence in recent years has been directly or indirectly linked to nationalist movements of terrorist methods. It is critical that citizens in democratic states be informed on these matters, to understand what they are and are not, in order to be responsible citizens. Prerequisite: PLSC 103, 105, 205, or 210. 3 semester credit hours. Typically offered: Periodically.

PLSC 319 International Political Economy. Examines the politics of international economics, and to a lesser extent, the economic determinants of international politics. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 322 Russian Politics in Comparative Perspective. Analyzes the politics, economics and social changes of post-communist states, comparing Russia's post-communist experience with that of other states in the former Soviet Union and Eastern Europe. The fundamental focus of all discussions and readings is on the requirements of and obstacles to the creation of a democratic political system. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 324 Democracy and Democratization. Examines the theory and practice of democracy around the world, and the question of "transitions to democracy" through analysis of the problems of creating a democratic political system. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 330 US Constitutional Law I. A study of the Constitution as a living and changing document underlying our entire system of government, and the role played by the judiciary in developing Constitutional law. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 331 Constitutional Law II. A study of the Constitution as a living and changing document underlying our entire system of government, and the role played by the judiciary in developing Constitutional law. Prerequisite: PLSC 103, 105, 205, or 210. 3 semester credit hours.

PLSC 336 Women in the Law. This course introduces students to basic concepts in the history and development of feminist thought while applying the knowledge to actual cases and legal situations affecting women. By examining the various controversies and problems that pervade this aspect of politics, students will achieve a greater awareness of how the American legal system helps to shape issues relating to gender. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours. Typically offered: Spring Term, Even Years.

PLSC 341 Presidential and Congressional Politics. Study of the American presidency and the background, powers and relations with the other components of the political system. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 342 Congress and the Legislative Process. Concentrates on the whole spectrum of the legislative process in the United States. Features simulation of the U.S. House. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 343 American Political Thought. Analyzes major American political theorists and the effects their thoughts have had on structuring our governmental institutions and shaping the political values and behavior of Americans. Prerequisite: PLSC 103, 105, 205, or 210. 3 semester credit hours.

PLSC 344 Democratic Citizenship. This is a seminar in which students will discuss and analyze the rights and responsibilities of citizenship and the importance and relevance of politics, government and public policy. The course includes a service learning component. 3 semester credit hours.

PLSC 345 Campaigns, Elections and Political Behavior. An analysis of individual and group political behavior within the context of the U.S. election system. Emphasis is placed on the nature of campaigns and the impact of elections on government. Class features student projects on campaign tactics and strategy. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 347 Politics and Religion in the United States and Beyond. The intersection of religion and politics from both a domestic and comparative perspective, including contemporary debates about political identities, secularization, modernization, culture, conflict and collaboration, is examined. Religious institutions will be evaluated as potential vehicles for citizen discourse and mobilization. The broader impact of religion in the public square is also assessed. Emphasis will be on domestic American politics, but many of these phenomena will also be considered from a comparative perspective. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 348 American Politics: Pressure Groups and Parties. The role of pressure groups and political parties and their impact upon the American political system. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 351 Introduction to Public Policy. This course serves as an introduction to the policy-making process, covering the various institutions, actors and procedures involved in getting an idea for solving a policy problem adopted into law and implemented. The themes discussed may be relevant at the local, state or national levels, and may include but are not limited to such matters as health, education, environmental and fiscal policy issues. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours.

PLSC 354 Seminar on International Theories. An advanced study of the main and latest theories and issues in international relations. 3 semester credit hours.

PLSC 355 Environmental Politics. The politics of environmental protection and regulation in the United States and selected other countries. Prerequisite: PLSC 103, 105, 205 or 210, or Environmental Science Major. 3 semester credit hours.

PLSC 391 Topics. A study of selected matter in the discipline of political science. Recent topics have included Politics of Western Europe, Politics of Soviet Union. Prospective topics may include Politics of Latin America, Politics of Southeast Asia, Politics of Sub-Saharan Africa, U.S.-Asian Relations and Politics of Policy Change in America. Prerequisite: PLSC 103, 105, 205 or 210. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

PLSC 392 Political Leadership. Intensive study of the principles and practice of the politics of leadership including hands-on leadership experiences in conjunction with the professor. 3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

PLSC 395 Independent Study. Course work in political science in which the student, in cooperation with one of the faculty members, designs the course in some area of political science of interest to the student. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

PLSC 397 Internship. Federal, state and local government institutions in the area serviced by the University offer opportunities for interested students to gain practical experience in governmental offices. Prerequisite: Junior or senior standing. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 3.*

PLSC 399 Thesis Research and Writing. Continuation of PLSC 299. Systematic integration of political theory and research. Preparation and completion of an independent undergraduate thesis. Prerequisite: PLSC 299. 3 semester credit hours. Writing Intensive Course. *Department Consent Required.*

Psychology

PSYC 100 Survey of Psychology. Overview of the field including principles and general methodology, concepts, theories and research, and applicability to modern living. IAI S6 900. 3 semester credit hours. Psychology Core Elective. Typically offered: Fall and Spring Terms. 3 semester credit hours.

PSYC 150 Introduction to Statistics. Basic course in statistical techniques, which includes measures of central tendency, probability, sampling, estimation and hypothesis testing. For non-business majors. IAI M1 902. Prerequisite: "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

PSYC 195 Research Practicum. Participation in ongoing departmental research. 1-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

PSYC 200 Childhood and Adolescence. Behavioral and social analysis of human development from birth through adolescence. IAI S6 904. Prerequisite: PSYC 100. 3 semester credit hours. Typically offered: Annually.

PSYC 202 Adulthood and Aging. Biopsychological, psychosexual and social cognitive development from young adulthood through aging, to dying and death. IAI S6 905. Prerequisite: PSYC 100. 3 semester credit hours. Typically offered: Annually.

PSYC 204 Survey of Exceptional Children. Discussion of atypical development: characteristics of persons labeled as having mental retardation, learning disabilities, behavioral disabilities, sensory deficits, speech disorders and health/physical challenges. Diagnosis, referral, educational strategies and legal implications are reviewed. Cross listed as EDUC 204/PSYC 204. IAI ECE 913; IAI SED 904. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

PSYC 210 Social Psychology. How social influences affect the individual and group. Attitudes, attribution and prejudice. IAI S8 900. PSYC 210 and SOCL 210 are cross listed. 3 semester credit hours. Psychology/Sociology Core Elective. Typically offered: Fall and Spring Terms.

PSYC 220 Personality. Theories of personality; process and analysis of personality development and adjustment, and discussion of the influence of theories on the practice of psychotherapy. Prerequisite: PSYC 100. 3 semester credit hours. Typically offered: Fall Term.

PSYC 241 Educational Psychology. Survey of theories of classroom learning processes including human growth and development, evaluation, the exceptional child and the disadvantaged child. Emphasis also on the developmental characteristics and nature and needs of the early adolescent. Cross-referenced as EDUC241/PSYC 241. IAI SED 902. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

PSYC 245 Alcohol Problems and Alcoholism. Introductory course regarding the effects of alcoholism on the individual, family and society. Examines concerns related to the identification, treatment and prevention of alcoholism in the United States. 3 semester credit hours. Typically offered: Annually.

PSYC 250 Basic and Applied Statistics. Acquaints students with descriptive statistical techniques (including measures of central tendency and variability, correlation, regression, and large and small sample estimation) as well as inferential statistical procedures (t, z and ANOVA designs, nonparametric tests and multiple regression). Focus will be on how these statistical procedures can be directly applied to real-life situations. Prerequisite: MATH 105, MATH 108 or MATH 110. 3 semester credit hours. Typically offered: Every semester.

SYC 251 Statistics II. ANOVA designs, correlation, regression, non-parametric tests, survey and experimental research techniques, social and behavioral measurements and multivariate analysis. Prerequisite: PSYC 150 or SOCL 150 or CJUS 150. Fee: \$35 3 semester credit hours.

PSYC 252 Research Practicum. Goal of the course is to develop the student's research skills in a particular field (Psychology, Sociology or Criminal Justice) by involving him/her in an actual research project under the direction of a faculty member. Students will meet with the instructor on a regular basis and will write both a preliminary proposal and final paper in APA style, the latter to include identification of the subject of the study, a review of the literature, statement of a working hypothesis, construction of necessary operational definitions, delineation of variables, a description of the population (and sample) and statistical tests if appropriate. Prerequisite: Successful completion of basic skills courses. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

PSYC 291 Selected Topics. Relevant to the needs and interests of the psychology major. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

PSYC 292 Psychology of Horror Films. Carl Jung's archetypal theory will be applied to horror films (from silent to contemporary) to better understand why people are drawn to this genre. Summer. Prerequisite: PSYC 100. 3 semester credit hours.

PSYC 298 Research Methods. Completion of the first part of an original research design. Prerequisite: PSYC 250 or MGT 251 and admission into the Adult BA in Organizational Leadership Program. 3 semester credit hours.

PSYC 300 Abnormal Psychology. Dynamics of personality disorders, etiology, diagnosis, treatment and prognosis in neurotic and psychotic behavioral disorders. Discussion of case studies. Prerequisite: PSYC 100 and Junior/Senior status. 3 semester credit hours. Typically offered: Fall and Spring Terms.

PSYC 302 Psychotherapy. Survey of theories and techniques of individual and group psychotherapies. Concepts and methods of evaluating therapeutic interventions. Prerequisite: PSYC 300. 3 semester credit hours. Typically offered: Fall Term.

PSYC 310 Social, Psychological and Cultural Aspects of Aging. This course examines various psychological and sociological aspects which impact the aging process. An analysis of the individual and society, changes in social roles and status, intergenerational relationships, sociocultural differences and intrapsychic dynamics will be explored. 3 semester credit hours. Psychology Core Elective.

PSYC 314 Learning and Cognition. Lecture course on principles, theories, concepts and experimental literature in learning and cognition, with emphasis on human learning in educational settings. Prerequisite: PSYC 100, PSYC 251. 3 semester credit hours. Typically offered: Periodically.

PSYC 315 Learning and Cognition Lab. Utilizes a series of computer simulation/experimental techniques to illustrate recall difference in attention, learning and memory. Lab reports in APA Style are required. Prerequisite: Coregistered in PSYC 314. 1 semester credit hour. Typically offered: Periodically.

PSYC 316 Sensation and Perception. Lecture analysis of the role of the senses in appreciating the external world, mechanisms of sensation and perception, introduction to psychophysical measurement of thresholds and signal detection theory. Prerequisite: PSYC 100, PSYC 251. 3 semester credit hours. Typically offered: Periodically.

PSYC 317 Sensation and Perception Lab. Utilizes a series of computer simulation/experimental techniques to illustrate how we perceive information as a function of the senses, threshold detection and other measures are employed. Lab reports in APA Style are required. Prerequisite: Co-registration in PSYC 316. 1 semester credit hour. Typically offered: Periodically.

PSYC 318 Physiological Psychology. Lecture relating neurophysiological correlates of human and animal behavior, emphasizing motivation, emotion, learning and memory processes. Prerequisite: PSYC 100 and Junior/Senior standing. 3 semester credit hours. Typically offered: Annually.

PSYC 319 Physiological Psychology Lab. Utilizes a series of computer simulation/experimental techniques to illustrate important physiological mechanisms (e.g., visual and auditory processing). Lab reports in APA Style are required. Prerequisite: Co-registration in PSYC 318. 1 semester credit hour.

PSYC 320 Organizational Behavior. Overview of organizational structures and group dynamics. Examines job satisfaction, motivation, performance evaluation, decision-making and goal setting. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

PSYC 350 Systems and Theories. Historical antecedents of modern psychology and current theoretical systems. Prerequisite: Junior/Senior in PSYC/SOCL program. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

PSYC 351 Research Methods in the Social Sciences. An analysis of various theoretical approaches to the study of social sciences as well as discussion and completion of the first two chapters of an original research design. Prerequisite: PSYC 251 or SOCL 251 or CJUS 251. Fee: \$35. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms.

PSYC 354 Behavior Modification/Lab. Focuses on basic behavioral principles and procedures. Emphasis is on the use of non-aversive techniques and applications with special needs populations. Requires lab work off campus. Prerequisite: Junior/Senior in PSYC/SOCL program. 4 semester credit hours. Typically offered: Annually.

PSYC 356 Clinical Practicum/Lab. Focus is on teaching interpersonal and primary-level skills of empathy, listening and interviewing to the introductory-level helping professional. Prerequisite: Junior/Senior in PSYC/SOCL program. 4 semester credit hours. Typically offered: Fall and Spring Terms.

PSYC 358 Group Dynamics Lab. A process-experimental course in how to conduct training in interpersonal skills and how to engage in organizational development activities. Weekend format only. 4 semester credit hours. Typically offered: Periodically.

PSYC 371 Death and Dying. Dynamics of the grief process, the care of the terminally ill and the needs of survivors in the sociological and psychological context of death. 3 semester credit hours. Typically offered: Annually.

PSYC 373 Group Processes. Introduces theory and components of group process. Opportunities to participate in functioning groups for decision-making and practicing of newly developed skills. Prerequisite: SOCL 356. 3 semester credit hours. Typically offered: Annually.

PSYC 386 Professional Issues in Life Span Services. This course presents an overview of gerontology as a profession. Special attention is given to ethical issues. The course reviews contemporary settings in the field of aging and analyzes the status of gerontology in terms of the occupation as a human service provider. 3 semester credit hours. Typically offered: Periodically.

PSYC 389 Organizational Leadership Capstone. Completion of an original research design. Prerequisite: PSYC 298; Admission to the adult B.A. in Organizational Leadership program. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms.

PSYC 391 Topics. Relevant topics according to the needs and interests of psychology majors. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

PSYC 395 Senior Thesis. Completion of an original research project under faculty supervision, involving either an original survey design, case study or experimental analysis. Prerequisite: PSYC 351 or SOCL 351 or CJUS 351. 3 semester credit hours. *Department Consent Required.*

PSYC 397 Psychology Field Placement. Supervised instruction in an on- or off-campus setting related to student's interest in psychology. Prerequisite: PSYC 356, a GPA of 2.5 or better, and consent of department chair and field placement director prior to the 10th week of the semester preceding the field placement. 3-6 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 6.*

PSYC 398 Life Span Services Field Placement. Supervised experience in an off-campus assisted/independent living setting. Each semester. Prerequisite: SOCL 356, a GPA of 2.5 or better, and consent of the program director and field placement director prior to the 10th week of the semester preceding field placement. 3-6 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

PSYC 399 Independent Study. Provides opportunity for advanced majors to complete requirements of psychology course on their own. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

Public Health

PUH 135 Mental Health First Aid. This course will provide students the opportunity to learn basic concepts and strategies of a mental health first-aider including the ability to identify, understand and respond to signs of mental illnesses and substance use disorders. 1 semester credit hour. Typically offered: Fall and Spring Terms.

Radiation Therapy

RADT 330 Introduction to Technical Radiation Oncology. Content is designed to familiarize the student therapist with the technical aspects of radiography and radiographic equipment. Discussion will include orientation to the function and operation of radiographic equipment. 2 semester credit hours.

RADT 331 Principles and Practice of Radiation Therapy I. Content is designed to provide an overview of cancer and the specialty of radiation therapy. The medical, biological and pathological aspect as well as the physical and technical aspects will be discussed. The roles and responsibilities of the radiation therapist, the treatment prescription, the documentation of treatment parameters and delivery will also be discussed. 3 semester credit hours.

RADT 332 Pathology. The course content is presented in two parts: general pathology and neoplasia. General pathology introduces basic disease concepts, theories of disease causation and system-by-system pathophysiologic disorders most frequently encountered in clinical practice. Neoplasia provides an in-depth study of new and abnormal development of cells. The processes involved in the development and classification of both benign and malignant tumors and site-specific information on malignant tumors is presented. 2 semester credit hours.

RADT 333 Radiation Physics. Content is designed to establish a basic knowledge of physics pertinent to developing an understanding of radiations used in the clinical setting. Fundamental physical units, measurements, principles, atomic structure and types of radiation emphasized. Also presented are the fundamentals of X-ray generating equipment, X-ray production and its interaction with matter. 2 semester credit hours.

RADT 334 Clinical Practicum I. Content is designed to provide sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in radiation therapy. Through structured sequential assignments in clinical facilities, concepts of team practice, patient-centered clinical practice and professional development shall be discussed, examined and evaluated. This includes supervised clinical education, which offers a sufficient and well-balanced variety of radiation treatments, examinations and equipment. Various rotations include general radiation therapy treatment rooms, Simulator/CT simulator, Nursing Department and Physics/Dosimetry Department. 3 semester credit hours.

RADT 335 Medical Imaging. Content is designed to establish procedures for imaging human structure and their relevance to radiation therapy. Topographic, radiographic and cross-sectional anatomy will be studied and demonstrated through various imaging modalities. 2 semester credit hours.

RADT 336 Introduction to Radiologic Sciences. Content is designed to provide students with an overview of the foundations, concepts, history and theories in radiation therapy and the practitioner's role in the health care delivery system. The interrelatedness of standards of care, law, ethical standards and competence will be examined. Radiation Therapy patient care content will provide the student with concepts and competencies in assessment and evaluation of the patient for service delivery. Psychological and physical needs and factors affecting treatment outcome will be presented and examined. Routine and emergency care procedures will be presented. 2 semester credit hours.

RADT 337 Radiation Safety and Protection. Content is designed to present basic principles of radiation protection and safety for the radiation therapist. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations are incorporated. Specific responsibilities of the radiation therapist are discussed, examined, performed and evaluated. 2 semester credit hours.

RADT 338 Principles and Practice of Radiation Therapy II. Content is designed to examine and evaluate the management of neoplastic disease using knowledge in arts and sciences, while promoting critical thinking and the basics of ethical decision-making. The epidemiology, etiology, detection, diagnosis, patient condition, treatment and prognosis of neoplastic disease will be presented, discussed and evaluated in relationship to histology, anatomical site and patterns of spread. The radiation therapist's responsibility in the management of neoplastic disease will be examined and linked to the skills required to analyze complex issues and make informed decisions while appreciating the character of the profession. 3 semester credit hours.

RADT 339 Technical Radiation Oncology II. Content is designed to provide the student therapist with knowledge of the technical aspects of radiation therapy. Discussion will include treatment modalities and the distinctive properties of each patient's simulation and treatment. This will also include basic hand calculations. 2 semester credit hours. *Department Consent Required.*

RADT 340 Radiation Therapy Physics. Content is designed to review and expand concepts and theories in the radiation physics course. Detailed analysis of the structure of matter, properties of radiation, nuclear transformations, X-ray production and interactions of ionizing radiation are emphasized. Also presented are types of treatment units used in external radiation therapy, measurement and quality of ionizing radiation produced, absorbed dose measurement, dose distribution and scatter analysis. Also included in this course are factors that influence and govern treatment planning. 2 semester credit hours.

RADT 341 Quality Management. Content is designed to focus on the evolution of quality management (QM) programs and continuing quality improvement in radiation oncology. Topics will include the need for quality assurance (QA) checks; QA of the clinical aspects and chart checks, film checks; the various types of evaluations and tests performed on simulators, megavoltage therapy equipment and therapy planning units; the role of radiation therapists in quality management programs; legal and regulatory implications for maintaining appropriate guidelines; and the role computers and information systems serve within the radiation oncology department. 2 semester credit hours.

RADT 342 Operational Issues in Radiation Therapy. Content is designed to focus on various radiation therapy operational issues. Continuing Quality Improvement project development and evaluation and assessment techniques will be emphasized. Human resource issues and regulations impacting radiation therapists will be examined. Accreditation agencies and the radiation therapist's role in the accreditation process will be emphasized. Billing and reimbursement issues pertinent to the radiation therapy department will be presented. 2 semester credit hours.

RADT 343 Clinical Practicum II. Content is designed to provide sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in radiation therapy. Through structured sequential assignments in clinical facilities, concepts of team practice, patient-centered clinical practice and professional development shall be discussed, examined and evaluated. This includes supervised clinical education, which offers a sufficient and well-balanced variety of radiation treatments, examinations and equipment. Various rotations include general radiation therapy treatment rooms, Simulator/CT simulator, Nursing Department and Physics/Dosimetry Department. 2 semester credit hours.

RADT 344 Management and Methods of Patient II. Continuation of RADT 336 Management and Methods of Patient Care I. 2 semester credit hours.

RADT 345 Radiation Biology. Content is designed to present basic concepts and principles of radiation biology. The interactions of radiation with cells, tissues and the body as a whole and resultant biophysical events will be presented. Discussion of the theories and principles of tolerance dose, time-dose relationships, fractionation schemes and the relationship to the clinical practice of radiation therapy will be discussed, examined and evaluated. 2 semester credit hours.

Religious Studies

RELS 100 Religion and Culture. An investigation of the ways in which myth, ritual and the interpretation of scripture provides meaning and orientation for human life. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

RELS 105 New Testament Greek I. Beginners introduction to the grammar and vocabulary of the original Greek text. 3 semester credit hours.

RELS 106 New Testament Greek II. Continuation of RELS 105. Prerequisite: RELS 105 3 semester credit hours.

RELS 110 Ecclesiastical Latin I. A yearlong introduction to the grammar and vocabulary needed to read the Latin of St. Jerome's Vulgate, liturgical and Medieval scholastic texts. Equivalent to 4 years of high school Latin. 3 semester credit hours.

RELS 111 Ecclesiastical Latin II. Continuation of RELS 110. Prerequisite: RELS 110. 3 semester credit hours.

RELS 120 Eastern Religious Traditions. This course will introduce the major religions of South, Southeast and East Asia and the interactions between them, focusing on the Hindu, Buddhist, Jain

and Sikh traditions, with mention of Islam, Asian Christianity and Chinese religions. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

RELS 122 The Baptism of Europe. Studies the development and Christianization of Europe in the Middle Ages (500-1500 A.D.). Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" through social structures (religious, political and economic) and through the interactions and/or conflicts between people and cultures (Eastern and Western Christianity, Judaism and Islam). 3 semester credit hours.

RELS 130 Abrahamic Traditions. An introduction to the three western "Abrahamic" religions – Judaism, Christianity and Islam – and their interactions. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

RELS 145 Women in the Sacred Scriptures. An exploration of Christian and Jewish Scriptures (with some mention of the Scriptures of other religions), in particular those passages which emphasize women's faith, wisdom and/or experience. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall and Spring Terms.

RELS 150 Introduction to the Bible I. A close reading of selections from the Christian Bible which examines historical background, literary composition and general content of the books of the Hebrew Bible ("Old" Testament) and the New Testament. Annually. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

RELS 151 Introduction to the Bible II. Continuation of RELS 150. Prerequisite: RELS/THEO 150. 3 semester credit hours. Typically offered: Periodically.

RELS 155 New Testament. A reading of the New Testament designed to treat the historical background, literary composition and theological meaning of the text. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

RELS 160 Jesus Christ. Studies the images of Jesus Christ in the New Testament and the development of Christological doctrine in subsequent Christian thought. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall Term, Even Years.

RELS 165 The Church. Investigates the apostolic origin, development and theological understanding of the Christian community to the present. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Spring Term, Odd Years.

RELS 170 Early Christianity. Examines the first six centuries of doctrinal developments, spiritual life and morality, relations between Christianity and other religious movements, and the church and state. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

RELS 180 The Divine Economy. A classic religious expression for bringing creation to full health is the unfolding of the drama of "divine economy" (*oikonomia tou Theou*), one mark of which is shared abundance. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall and Spring Terms.

RELS 191 Selected Topics. Special topics on the introductory level. A topics course may apply toward divisional core. 1-3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall and Spring Terms. *Course Repeatable. Maximum number of units allowed 99.*

RELS 220 History of Christian Thought I. This overview of the Christian intellectual tradition studies the history of reflection on Christian faith from the first through the 15th century, as seen in the writings of representative figures. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall Term, Odd years.

RELS 221 History of Christian Thought II. This overview of the Christian intellectual tradition studies the history of reflection on Christian faith from the 16th century to the present, as seen in the writings of representative figures. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Spring Term, Even Years.

RELS 230 Judaism. This course will introduce students to the practices, beliefs, literature, history and diversity of Jews and Judaism, as well as to Jewish-Christian and Jewish-Muslim dialogue. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Spring Term.

RELS 235 Islam. This course will introduce students to the practices, beliefs, literature, history and diversity of Islam and Muslims throughout the world, as well as to Christian-Muslim dialogue. 3 semester credit hours. Religious Studies and Multicultural Core Elective. Typically offered: Fall Term.

RELS 240 Christian Worship. A historical, cultural and theological examination of the diverse liturgical practices of Orthodox, Catholic and Protestant Christians. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

RELS 250 Christian Ethics. An understanding of the distinctively Christian strategy of life based on readings of Christian scriptures and theological interpretations. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

RELS 251 Christianity in Latin America. Examines the cultural, historical and religious traditions of Latin America and the impact of social change on religious beliefs and practices in the region. 3 semester credit hours.

RELS 265 Eastern Christianity. History, theology, spirituality and contemporary life of Eastern Christians, including the Oriental Orthodox, Eastern Orthodox and Eastern Catholic Churches. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

RELS 270 Roman Catholicism. Survey of Roman Catholic teachings, ethical principles, sacramental rituals and structural organization. 3 semester credit hours.

RELS 271 19th Century Church History. Studies the European Church's reaction to the French Revolution and scientific theories and the social questions of the 19th century. Analyzes the roots of contemporary developments in the Church. 3 semester credit hours.

RELS 272 20th Century Church History. Analyzes the impact of 19th century developments, the world wars, decolonization, intellectual trends, and Vatican II's origins and results. 3 semester credit hours.

RELS 275 Protestant Traditions. Survey of the fundamental principles of Protestant teaching as rooted in the German, Swiss and English Reformations. 3 semester credit hours. Religious Studies Core Elective.

RELS 285 Religion in America. Study of the prominent individuals, communities, movements, institutions and beliefs which make up the religious experience of North American people. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall Term.

RELS 291 Selected Topics. Special topics on the intermediate level. A topics course may apply toward divisional core. 3 semester credit hours. Religious Studies and Writing Intensive Course. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

RELS 350 Christian Ethics. An understanding of the distinctively Christian strategy of life based on readings of Christian scriptures and theological interpretations. 3 semester credit hours.

RELS 385 Religion In America. Study of the prominent individuals, communities, movements, institutions and beliefs which make up the religious experience of North American people. 3 semester credit hours.

RELS 391 Selected Topics. Special topics on the advanced level. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

Sociology

SOCL 100 Principles of Sociology. Fundamental concepts in the scientific study of human society, culture and personality, with special study of the social organization of groups and institutions. IAI S7 900. 3 semester credit hours. Sociology Core Elective. Typically offered: Fall, Spring and Summer Terms.

SOCL 150 Introduction to Statistics. Basic course in statistical techniques which includes measures of central tendency, probability, sampling, estimation and hypothesis testing. For non-business majors. IAI M1 902. Prerequisite: "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall, Spring and Summer Terms.

SOCL 195 Research Practicum. Participation in on-going departmental research. 1-3 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required.*

SOCL 205 Racial and Ethnic Groups. The nature of prejudice. Studies of ethnic relations in America and other societies. IAI S7 903D. 3 semester credit hours. Typically offered: Spring Term.

SOCL 210 Social Psychology. How social influences affect the individual and group. Attitudes, attribution and prejudice. IAI S8 900. PSYC 210 and SOCL 210 are cross listed. 3 semester credit hours. Psychology/Sociology Core Elective. Typically offered: Fall and Spring Terms.

SOCL 213 Health Aspects of Aging. Focuses upon the normal aging process in American society including biological, psychological and health aspects. Emphasis is placed on health services, health maintenance and contemporary issues with respect to the elderly population. 3 semester credit hours. Life Science Core Elective.

SOCL 231 Medical Sociology. Analysis of social factors in relation to health and disease. Organization of health professions and institutions. 3 semester credit hours. Sociology Core Elective. Typically offered: Periodically.

SOCL 234 Sociology of Sport. Examines social and cultural factors affecting organized sport, including gender, race, the role of money and media coverage in athletics, and the importance of athletics to small communities. 3 semester credit hours. 3 semester credit hours.

SOCL 235 Sociology of Popular Culture. Studies the role of popular culture in communicating ideas about society, including deviance, gender, social class and race. Examples that will be studied include films, tattoos and body piercing, and myths, legends and popular fiction. 3 semester credit hours.

SOCL 240 Social Problems. Effects of social change, disorganization and value conflict on family life, mental health, ethnic relations, crime and delinquency, related topics. IAI S7 901. Prerequisite: SOCL 100. 3 semester credit hours. Typically offered: Spring Term.

SOCL 245 Alcohol Problems and Alcoholism. Introductory course regarding the effects of alcoholism on the individual, family and society. Examines concerns related to the identification, treatment and prevention of alcoholism in the United States. 3 semester credit hours. Typically offered: Annually.

SOCL 250 Basic and Applied Statistics. Acquaints students with descriptive statistical techniques (including measures of central tendency and variability, correlation, regression and large and small sample estimation) as well as inferential statistical procedures (t, z and ANOVA designs, nonparametric tests and multiple regression). Focus will be on how these statistical procedures can be directly applied to real-life situations. Prerequisite: MATH 105, MATH 108 or MATH 110. 3 semester credit hours. Typically offered: Every semester.

SOCL 251 Statistics II. ANOVA designs, correlation, regression, non-parametric tests, survey and experimental research techniques, social and behavioral measurements and multivariate analysis. Prerequisite: PSYC 150 or SOCL 150 or CJUS 150. Fee: \$35 3 semester credit hours.

SOCL 252 Research Practicum. Goal of the course is to develop the student's research skills in a particular field (Psychology, Sociology or Criminal Justice) by involving him/her in an actual research project under the direction of a faculty member. Students will meet with the instructor on a regular basis and will write both a preliminary proposal and final paper in APA style, the latter to include

identification of the subject of the study, a review of the literature, statement of a working hypothesis, construction of necessary operational definitions, delineation of variables, a description of the population (and sample) and statistical tests if appropriate. Prerequisite: Successful completion of basic skills courses. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

SOCL 260 Introduction to Criminal Justice. Examination of the criminal justice system: police, courts and corrections. Analysis of functions, jurisdiction, operation and relationships. IAI CRJ 901. 3 semester credit hours. Typically offered: Annually.

SOCL 265 Introduction to Social Work. Values and history that underlie social work issues; discussion of the profession of social work and its concern with human welfare areas and field of service. 3 semester credit hours. Typically offered: Fall Term.

SOCL 270 Marriage and the Family. Family system and its changing relationships to contemporary society. Structures, value orientation and personality patterns, role and status interrelationships. IAI S7 902. Prerequisite: SOCL 100. 3 semester credit hours. Typically offered: Annually.

SOCL 290 Social and Cultural Change. Analysis of large scale historical change, the succession of types of societies and the emergence of the contemporary world. Evolution of social institutions (the family, religion) and speculation about significant future change. 3 semester credit hours. Typically offered: Annually.

SOCL 291 Selected Topics in Sociology. According to the interests of the sociology majors. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

SOCL 301 Social Welfare Services. Survey of social work agencies. Application of social systems to public and voluntary social welfare services. Prerequisite: SOCL 265. 3 semester credit hours. Typically offered: Annually.

SOCL 306 Correctional System. Theory and research relating to treatment, incarceration and rehabilitation of the offender. IAI CRJ 911. Prerequisite: SOCL/CJUS 260. 3 semester credit hours. Typically offered: Annually.

SOCL 310 Social, Psychological and Cultural Aspects of Aging. This course examines social, psychological and cultural aspects that impact the aging process. An analysis of the individual and society, explorations of changes in roles and status, intergenerational relationships, sociocultural differences and intrapsychic dynamics will be explored. 3 semester credit hours. Typically offered: Fall Term.

SOCL 321 Crime and Delinquency. Social and psychological factors related to crime, theories of crime and delinquency, police and court systems and correctional institutions. IAI CRJ 912. Prerequisite: SOCL/CJUS 260. 3 semester credit hours. Typically offered: Annually.

SOCL 350 Social Theory. Origin and development of sociology through a study of the classic works of the 19th and 20th centuries. Prerequisite: SOCL 100. 3 semester credit hours. Typically offered: Fall Term.

SOCL 351 Research Methods in the Social Sciences. An analysis of various theoretical approaches to the study of social sciences as well as discussion and completion of the first two chapters of an original research design. Prerequisite: PSYC 251 or SOCL 251 or CJUS 251. Fee: \$35. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms.

SOCL 356 Clinical Practicum/Lab. Focus is on teaching interpersonal and primary-level skills of empathy, listening and interviewing to the introductory-level helping professional. Prerequisite: Junior/Senior in PSYC/SOCL program. 4 semester credit hours. Typically offered: Fall and Spring Terms.

SOCL 371 Death and Dying. Dynamics of the grief process, the care of the terminally ill and the needs of survivors in the sociological and psychological context of death. 3 semester credit hours. Typically offered: Annually.

SOCL 386 Professional Issues in Life Span Services. This course presents an overview of gerontology as a profession. Special attention is given to ethical issues. The course reviews contemporary settings in the field of aging and analyzes the status of gerontology in terms of the occupation as a human service provider. 3 semester credit hours. Typically offered: Periodically.

SOCL 390 Criminal Justice Field Placement. Observation and participation in the daily work of a criminal justice agency. Each semester. Prerequisite: PSYC 356 or SOCL 356, consent of program director and field placement director prior to the 10th week of the semester preceding the field placement, and a GPA of 2.5 or better. 3-6 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

SOCL 391 Topics in Sociology. Relevant topics according to the needs and interests of the criminal justice students. Prerequisite: SOCL 100. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

SOCL 392 Social Work Field Placement. This internship provides experience in practice in a professional agency under the supervision of a trained practitioner. Each semester. Prerequisite: SOCL 356, consent of the program director and field placement director prior to the 10th week of the semester preceding the field placement, and GPA of 2.5 or better. 3-6 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

SOCL 394 Group Processes. Introduces theory and components of group process. Opportunities to participate in functioning groups for decision-making and practicing of newly developed skills. Prerequisite: SOCL 356. 3 semester credit hours. Typically offered: Annually.

SOCL 395 Senior Thesis. Completion of an original research project under faculty supervision, involving either an original survey design, case study or experimental analysis. Prerequisite: PSYC 351 or SOCL 351 or CJUS 351. 3 semester credit hours. *Department Consent Required.*

SOCL 397 Sociology Field Placement. Supervised experience in an on- or off-campus setting related to the student's interest in sociology. Prerequisite: SOCL 356, consent of the program director and field placement director prior to the 10th week of the semester preceding the field placement, and GPA of 2.5 or better. 3-6 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

SOCL 398 Life Span Services Field Placement. Supervised experience in an off-campus assisted/independent living setting. Each semester. Prerequisite: SOCL 356, and a GPA of 2.5 or better, consent of the program director and field placement director prior to the 10th week of the semester preceding field placement 3-6 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

SOCL 399 Independent Study. Provides opportunity for advanced majors to complete requirements of sociology course on their own. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

Spanish

SPAN 101 Elementary Spanish I. Introduction to the basic structure of the language. Designed to enable the student to begin to develop oral proficiency and written skills. 3 semester credit hours. Typically offered: Fall and Spring Terms.

SPAN 102 Elementary Spanish II. Continued study of the basic structure of the language. Designed to enable the student to continue to develop oral proficiency and written skills. Prerequisite: SPAN 101 or placement. 3 semester credit hours. Typically offered: Spring and Summer Terms.

SPAN 201 Intermediate Spanish I. Review of the basic structure of the language. Emphasis on extensive language practice in simulated cultural settings in order to enable students to continue to develop their oral and written proficiency. Prerequisite: SPAN 102 or placement. 3 semester credit hours. Typically offered: Fall and Summer Terms.

SPAN 202 Intermediate Spanish II. Continued review of the basic structure of the language. Emphasis on extensive language practice in simulated cultural settings in order to enable students to continue to develop their oral and written proficiency. IAI H1 900. Prerequisite: SPAN 201 or placement. 3 semester credit hours. Typically offered: Spring and Summer Terms.

SPAN 211 Intermediate Grammar and Composition. Comprehensive review and synthesis of Spanish grammar. Designed to provide students with extensive writing practice in order to prepare them for more effective participation in advanced courses, and to enable them to improve their ability to use and manipulate the language with a higher degree of accuracy, flexibility and assurance. Co-registration with SPAN 212 strongly recommended. Prerequisite: SPAN 202 or placement. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms.

SPAN 212 Intermediate Oral Communications. Emphasis on oral proficiency, syntax and grammar, as well as helping students to develop their ability to respond to the cultural challenges that face someone living in an Hispanic culture. Co-registration with Span 211 is strongly recommended. Prerequisite: SPAN 202 or placement. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

SPAN 213 Business Spanish I. Survey of the fundamental vocabulary and concepts of commercial language in Spanish. Designed to help students improve their oral and written proficiency and cultural sensitivity while developing a vocabulary for business functions. Prerequisite: SPAN 211 and SPAN 212 or department consent. 3 semester credit hours. Typically offered: Periodically.

SPAN 214 Business Spanish II. Continued survey of the fundamental vocabulary and concepts of commercial language in Spanish. Designed to enable students to continue to improve their oral and written proficiency in Spanish and their cultural sensitivity while developing a vocabulary for business functions. Prerequisite: SPAN 211 and SPAN 212, or department consent. 3 semester credit hours. Typically offered: Periodically.

SPAN 220 Introduction to Spanish Literature. Close reading of selected Spanish short stories, poetry, plays and essays. Analysis of how these works reflect and influence the thinking of their times and the relevance of their ideas to the contemporary world. This course is designed to help students improve skills in written and oral narration and description, and reading proficiency. IAI H3 916. Prerequisite: SPAN 211 and SPAN 212, or department consent. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term, Even Years.

SPAN 221 Introduction to Contemporary Latin American Literature. Close reading of selected works of contemporary Latin American literature including poetry, short stories and plays. Students will learn about the lives of the authors and their times, and will explore the critical role of literature in Latin American social and political development. Emphasis on enabling students to develop skills in written and oral narration and description, and reading proficiency. IAI H3 916. Prerequisite: SPAN 211 and SPAN 212, or department consent. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term, Odd Years. *Department Consent Required.*

SPAN 230 Elements of Spanish Civilization and Culture. Designed to allow students to work on development of language proficiency through class discussions, written assignments and selected readings concerned with key elements of Spanish civilization: the family, the Catholic Church, the government, social relations and how these factors have shaped the artistic, literary and historic experience of the Spanish people. Prerequisite: SPAN 211 and SPAN 212, or department consent. 3 semester credit hours. Typically offered: Spring Term, Even Years.

SPAN 231 Elements of Latin American Civilization and Culture. Designed to allow students to work on development of language proficiency through class discussions, written assignments and selected readings concerned with key elements of Latin American civilization: the family, the Catholic Church, indigenous peoples and religions, social and political movements, and how these factors have shaped the artistic, literary and historic experience of Latin American peoples. Prerequisite: SPAN 211 and SPAN 212 or department consent. 3 semester credit hours. Multi-Cultural Course. Typically offered: Fall Term, Even Years.

SPAN 291 Intermediate Topics in Spanish Language and Hispanic Literature and Culture.

Intermediate-level study of topics in Spanish and Latin American literature, culture and/or civilization. Prerequisite: SPAN 211 and SPAN 212, or department consent. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 9.*

SPAN 295 Independent Study. Designed for the intermediate student who wishes to explore an aspect of Spanish language or literature beyond the scope of the regular course offerings. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

SPAN 305 Advanced Grammar. In-depth study of Spanish syntax and grammar. Strong emphasis on sentence analysis, grammar terminology, translation and word expression acquisition. Highly recommended for prospective language teachers, but useful for all Spanish majors or minors. Designed to enable students to improve their ability to use and manipulate the language with a higher degree of accuracy, flexibility and assurance. Prerequisite: SPAN 211 and SPAN 212, or department consent. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

SPAN 307 Advanced Contemporary Spanish Literature. Study of representative literary works. Discussion of the political, social, economic and religious issues reflected in the works. Emphasis on enabling students to develop skills in oral and written analysis, narration and description in Spanish, as well as to strengthen reading proficiency. Prerequisite: SPAN 211 and 212, or department consent. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Odd Years.

SPAN 310 Advanced Contemporary Latin America Literature. Study of representative literary works. Discussion of the political, social, economic and religious issues reflected in the works. Emphasis on enabling students to develop skills in oral and written analysis, narration and description in Spanish, as well as to strengthen reading proficiency. Prerequisite: SPAN 211 and 212 or department consent. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Even Years.

SPAN 311 Advanced Written Communications. Designed to enable students to improve writing skills through extensive practice and intensive study of various forms of written communication. Prerequisite: SPAN 211 and SPAN 212, or department consent. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall Term, Even Years.

SPAN 312 Advanced Oral Communications. Continued emphasis on developing oral proficiency, syntax and grammar in Spanish. Students will work on their ability to respond to the communication challenges faced when living in an Hispanic culture. Prerequisite: SPAN 211 and SPAN 212, or department consent. 3 semester credit hours. Typically offered: Spring Term, Even Years.

SPAN 391 Advanced Topics in Spanish Language and Hispanic Literature and Culture.. Advanced level study of topics in Spanish and Latin American culture, civilization and/or literature. Prerequisite: SPAN 211 and SPAN 212, or department consent. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

SPAN 395 Independent Study. Designed for the advanced student who wishes to explore an aspect of Spanish language or Hispanic literature, civilization or culture beyond the scope of the regular course offerings. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

SPAN 397 Internship. Professional experience designed to enhance proficiency and cultural understanding by working in a human service agency, an educational institution or a business agency in a country where Spanish is the primary language. Prerequisite: Approved application. 2-6 semester credit hours. *Department Consent Required.*

Speech

SPCH 110 Basic Speech. An introduction to public speaking, communication theory and small-group and interpersonal communication. The course includes researched extemporaneous speeches and several in-class exercises. IAI C2 900. 3 semester credit hours. Typically offered: Fall and Spring Terms.

Please note: For the Online courses, speeches must be delivered to a live audience and recorded for submission. 3 semester credit hours. Typically offered: Fall and Spring Terms.

Study Abroad

SAB 291 Study Abroad. Study Abroad Experience. Students must work with International Programs Office for approval. 6-18 semester credit hours. Typically offered: Fall, Spring and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 36.*

Theology

THEO 101 Theology of Love. Christianity teaches that God is love and this course unpacks what that statement means. We will examine the concept of "God is Love" in the systematic theology of the Trinity, the sacramental theology of the Eucharist and Marriage, and the Catholic understanding of the moral life. 3 semester credit hours. Religious Studies Core Elective.

THEO 102 Theology of Justice. This course examines the idea of justice particularly in relation to the redeeming death of Christ and its implications for theology. It will survey the systematic theology of Christology and the Atonement; the sacramental theology of the Eucharist, Reconciliation, and Holy Orders, and the moral theology of law, social justice, and canon law. 3 semester credit hours. Religious Studies Core Elective. 3 semester credit hours. Religious Studies Core Elective.

THEO 103 Theology of Freedom. This course examines the concept of freedom in human life and theology, particularly as it relates to the problem of evil, human action, and creativity. It will survey the systematic theology of Creation, Salvation History, and Eschatology, the study of the last things; the sacramental theology of Baptism, Confirmation and Reconciliation; the ecclesial theology of the laity; and the moral theology of human action and freedom of conscience. 3 semester credit hours. Religious Studies Core Elective. 3 semester credit hours. Religious Studies Core Elect.

THEO 104 Faith and Science. This course examines the relationships between faith, reason, Catholic theology, and the secular understanding of science. It will survey the systematic theology of creation and the possibility of reason, the sacramental understanding of creation, the moral theology of ecology and the ecclesial theology of the autonomy of the secular disciplines. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall, Spring and Summer Terms. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall, Spring and Summer Terms.

THEO 150 Introduction to the Bible I. A close reading of selections from the Christian Bible which examines historical background, literary composition, and general content of the books of the Hebrew Bible ("Old" Testament) and the New Testament. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

THEO 151 Introduction to the Bible II. Continuation of RELS 150. Prerequisite: RELS/THEO 150. 3 semester credit hours. Offered: Periodically.

THEO 160 Jesus Christ. Studies the images of Jesus Christ in the New Testament and the development of Christological doctrine in subsequent Christian thought. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall Term, Even Years.

THEO 165 The Church. Investigates the apostolic origin, development and theological understanding of the Christian community up to the present. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Spring Term, Odd Years.

THEO 170 Early Christianity. Examines the first six centuries of doctrinal developments, spiritual life and morality, relations between Christianity and other religious movements, and the church and state. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

THEO 201 Survey of the Hebrew Scriptures. Survey of the Hebrew Scriptures (Tanakh) with emphasis on historical context and relation to Catholic theology and exegesis. 3 semester credit hours.

THEO 202 New Testament. This course is an in-depth study of the New Testament, its origins, content, interpretation and transmission to the modern world. 3 semester credit hours. *Department Consent Required.*

THEO 203 Sacramental Theology. Study of the history, meaning and theological significance of the sacraments in Catholic theology. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Annually.

THEO 204 Catholic Spirituality. Examines the historical and contemporary contexts of Catholic spirituality. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Annually.

THEO 206 Christian Ethics. Course examines historical and contemporary issues through Christian ethical analysis. Writing Intensive. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Odd Years.

THEO 207 Catholic Social Teaching. Course examines the history and contemporary application of Catholic social teaching. 3 semester credit hours.

THEO 208 Sexual Ethics. Course examines Catholic theological, social and ethical teachings on cultural conceptions of sexual identities, politics and procreation. 3 semester credit hours. Religious Studies Core Elective. Typically offered:

THEO 212 Land, Justice and Peace. This course is a review of the theological and ethical issues underpinning the situation in Palestine and Israel, and the impact religion, water and land have on the search for peace. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Annually. *Department Consent Required.*

THEO 220 Mediterranean World. Covers content of HUMN 220 with emphasis on history of the Old Testament. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall Term. *Department Consent Required.*

THEO 225 Pilgrimage. This course will introduce students to the history, theology and practice of pilgrimage in various religions, including Judaism, Christianity, Islam and Hinduism. Students will not only study theological texts about pilgrimage, but they will also become familiar with some of the most famous pilgrimage destinations (Jerusalem, Mecca, Rome, Compostela, Guadalupe and Varanasi) and their associated practices. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Annually.

THEO 230 Baptism of Europe. Same content as HUMN 230 with emphasis on the foundation of the Catholic Church and New Testament history. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Spring Term. *Department Consent Required.*

THEO 235 Interreligious Dialogue. This course will introduce various theological approaches to interreligious dialogue with a special focus on the Roman Catholic perspective. Students will not only study theological texts about interreligious dialogue written by Christians, Muslims, Jews and Buddhists, but they will also become familiar with real-life encounters between adherents of the various world religions today. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Annually.

THEO 252 Business Ethics in the Context of Catholic Social Teaching. This course examines the standard issues of business ethics from three perspectives: the norms of Kantian Ethics, the utilitarian calculation of the good, and the emphasis on the common good, solidarity and subsidiarity of Catholic Social Teaching. It will use case studies to demonstrate the strengths and weaknesses of each of the three approaches to current business problems. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall, Spring and Summer Terms.

THEO 270 Benedictine Wisdom Tradition. This course will introduce students to the most prominent theologians of the Benedictine Order (and related monastic traditions) throughout history, from St. Benedict himself to medieval mystical theologians such as Bernard of Clairvaux and Hildegard of Bingen, to modern greats such as the Trappist Thomas Merton. 3 semester credit hours. Typically offered: Spring Term, Even Years. *Department Consent Required.*

THEO 280 The Theology of Thomas Aquinas. The Theology of Thomas Aquinas. This course explores the theology of Thomas Aquinas (emphasizing virtue ethics, christology and sacraments) through a close reading of his most important work, the *Summa Theologiae*. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

THEO 281 Great Women Theologians. In this course, students will study the writings of some of the most influential Catholic theologians of all time (many of whom are also doctors of the church), including Hildegard of Bingen, Catherine of Siena, Julian of Norwich, Teresa of Avila, Thérèse Lisieux and Dorothy Day. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

THEO 287 Why Work? Seeking vocation in work. This course looks at the literature of vocation and meaningful work, of the rightful place of work in a well ordered life, and the responsibilities of work in building a world of justice and peace. Texts from various religious traditions as well as other works such as More's "Utopia," Johnson's "Rassela" and contemporary authors. Cross listed with Mgt 287. 2-3 semester credit hours. Typically offered: Spring Term.

THEO 301 Survey of the Hebrew Scriptures. Survey of the Hebrew Scriptures (Tanakh) with emphasis on historical context and relation to Catholic theology and exegesis. 3 semester credit hours. Typically offered: Periodically.

THEO 302 New Testament. This course is an in-depth study of the New Testament, its origins, content, interpretation, and transmission to the modern world. 3 semester credit hours. Department consent required. 3 semester credit hours. *Department Consent Required*.

THEO 303 Sacramental Theology. Study of the history, meaning and significance of the sacraments in Catholic theology. 3 semester credit hours. Religious Studies Core Elective.

THEO 304 Catholic Spirituality. Examines the historical and contemporary contexts of Catholic spirituality. 3 semester credit hours. Typically offered: Annually.

THEO 306 Christian Ethics. Course examines historical and contemporary issues through Christian ethical analysis. 3 semester credit hours. Religious Studies and Writing Intensive Course. Typically offered: Annually.

THEO 307 Catholic Social Teaching. Course examines the history and contemporary application of Catholic social teaching. 3 semester credit hours. Typically offered: Annually.

THEO 308 Sexual Ethics. Course examines Catholic theological, social and ethical teachings on cultural conceptions of sexual identities, politics and procreation. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Even Years. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Even Years.

THEO 325 Pilgrimage. This course will introduce students to the history, theology and practice of pilgrimage in various religions, including Judaism, Christianity, Islam and Hinduism. Students will not only study theological texts about pilgrimage, but they will also become familiar with some of the

most famous pilgrimage destinations (Jerusalem, Mecca, Rome, Compostela, Guadalupe and Varanasi) and their associated practices. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Annually.

THEO 335 Interreligious Dialogue. This course will introduce various theological approaches to interreligious dialogue with a special focus on the Roman Catholic perspective. Students will not only study theological texts about interreligious dialogue written by Christians, Muslims, Jews and Buddhists, but they will also become familiar with real-life encounters between adherents of the various world religions today. 3 semester credit hours. Typically offered: Spring Term. *Department Consent Required.*

THEO 370 Benedictine Wisdom Tradition. This course will introduce students to the most prominent theologians of the Benedictine Order (and related monastic traditions) throughout history, from St. Benedict himself to medieval mystical theologians such as Bernard of Clairvaux and Hildegard of Bingen, to modern greats such as the Trappist Thomas Merton. 3 semester credit hours. Typically offered: Spring Term, Even Years. *Department Consent Required.*

THEO 380 The Theology of Thomas Aquinas. The Theology of Thomas Aquinas. This course explores the theology of Thomas Aquinas (emphasizing virtue ethics, christology and sacraments) through a close reading of his most important work, the *Summa Theologiae*. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

THEO 381 Great Women Theologians. In this course, students will study the writings of some of the most influential Catholic theologians of all time (many of whom are also doctors of the church), including Hildegard of Bingen, Catherine of Siena, Julian of Norwich, Teresa of Avila, Thérèse Lisieux and Dorothy Day. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically.

THEO 391 Advanced Topics. Advanced topics in Theology. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 3.*

THEO 399 Senior Seminar. Senior seminar which directs the research of the students to a topic relating theology and the secular discipline of their choice. The capstone project is a 20,000-word thesis. 3 semester credit hours. Writing Intensive Course. Typically offered: Spring Term. *Department Consent Required.*

Writing Program

WRIT 101 Person in Community: Writing Colloquium. A first-year, writing-intensive skills course whose content focuses on Benedictine University and its mission of higher learning grounded in the liberal arts and guided by its Benedictine Heritage and Catholic tradition. Students will be introduced to the theme of "Person in Community," which unites the Cultural Heritage sequence of courses. Readings will encourage students to understand, discuss and write about issues of contemporary relevance. Emphasis on writing and revising argumentative essays, grammar review, basic library research skills and textual analysis. Grade of "C" or better. IAI CI900. 3 semester credit hours. Typically offered: Fall and Spring Terms.

WRIT 102 Research Writing. A course that introduces students to writing in the disciplines of literature, social science or biological science. Students study types of writing in the discipline, use advanced library research techniques, write brief literature reviews, and develop and write significant research papers. Grade of "C" or better. IAI CI901. 3 semester credit hours. Typically offered: Fall and Spring Terms.

WRIT 104 Person in Community. A first-year course whose content focuses on Benedictine University and its mission of higher learning grounded in the liberal arts and guided by its Benedictine Heritage and Catholic tradition. Students will be introduced to the theme of "Person in Community," which unites the Cultural Heritage sequence of courses. Readings will encourage students to understand, discuss and write about issues of contemporary relevance. For all freshmen with a 3 or better on the AP test in English Literature/Composition or English Language/Composition. 1 semester credit hour. *Department Consent Required.*

SPRINGFIELD BRANCH CAMPUS COURSE DESCRIPTIONS

Accounting

ACCT 111 Accounting I. Principles of financial accounting; including the basic structure of accounting, accounting systems, and controls, the preparation and use of financial statements, and problems related to financial disclosures. Credit will not be granted for both ACCT 111 and ACCT 115. IAI BUS 903. Prerequisite: MATH 105 or MATH 110 or coregistration in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall and Spring Terms.

ACCT 112 Accounting II. Principles of managerial accounting; including cost accounting, planning and control systems, and analysis and interpretation of financial statements. IAI BUS 904. Prerequisite: ACCT 111 3 semester credit hours. Typically offered: Fall and Spring Terms.

ACCT 211 Intermediate Accounting I. A thorough study of balance sheet accounts integrated with an analysis of their relationship to the income statement. Prerequisite: ACCT 111. 3 semester credit hours. Typically offered: Fall Term.

ACCT 212 Intermediate Accounting II. A thorough study of balance sheet accounts integrated with an analysis of their relationship to the income statement. Prerequisite: ACCT 211. 3 semester credit hours. Typically offered: Spring Term.

ACCT 311 Cost Accounting. A comprehensive study of methods used to develop cost information for manufacturing and service operations and of models for business planning and control. Prerequisite: ACCT 112. 3 semester credit hours.

Anthropology

ANTH 200 Cultural Anthropology. Study of the origins of mankind and culture. Development of human language, culture, and institutions, cross cultural analysis of societies, and cultures. IAI S1 901N. 3 semester credit hours. Anthro Core & Multi-Cultural.

ANTH 290 Social and Cultural Change. Analysis of large scale historical change, the succession of types of societies and the emergence of the contemporary world. Evolution of social institutions (the family, religion) and speculation about significant future change. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

Astronomy

ASTR 105 Astronomy. Examines astronomical phenomena and concepts including the solar system, star, galaxies, planetary motions, atoms and radiation and the origin and evolution of the universe. 4 semester credit hours.

ASTR 203 Stars and Galaxies. An introduction to the mysteries and physical phenomena of deep space. Areas of study will include lab explorations; observational techniques; the concepts of space, time, and gravity; the nature of stars and their formation, development, and end; our galaxy and others; quasars; black holes; and our modern understanding of cosmology. Prerequisites: MATH 095

or higher; math placement or permission of Division Chair. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Physical Science Core Elective. Typically offered: Fall Term.

ASTR 204 Our Solar System. An exploration of the Earth and its nearest neighbors through lecture discussion and lab activities, to include: the development of astronomy from ancient times to the Enlightenment; an introduction to the celestial sphere; observational techniques; the concepts of space, time, force, and gravity; a study of the planets in our solar system, their satellites, asteroids and comets; and the formation of planetary systems. Prerequisites: MATH 095 or higher; math placement or permission of Division Chair. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Physical Science Core Elective. Typically offered: Spring Term.

Benedictine Beginnings

BENB 100 Benedictine Beginnings. New Student Orientation Typically offered: Periodically.

Biochemistry

BCHM 361 Biochemistry. The structure and function of the major chemical components of biological systems are described. The major topics include water, buffers and pH; proteins; enzymes; carbohydrates; lipids; and vitamins. Prerequisite [Main Campus]: CHEM 247. Prerequisite [Springfield Campus]: CHEM 241. 3 semester credit hours. Life Science Core Elective. Typically offered: Fall Term.

Biology

BIOL 114 General Botany with Lab. Study of the anatomy and physiology of plants in general and the various divisions in detail. Included are units on genetics, evolution and ecology and correlated laboratory explorations. The interaction and effects of human intervention on plant life is also studied. Does not meet the requirements for science majors or pre-professional programs. Prerequisites: none. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Life Science Core Elective. Typically offered: Fall Term.

BIOL 116 Introduction to Human Biology with Lab. An investigation of the structure and function of the systems in the human body with correlated laboratory work. Does not meet the requirements for science majors or pre-professional programs. Prerequisites: none. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Life Science Core Elective. Typically offered: Spring Term.

BIOL 117 General Biology I with Lab. An introduction to the fundamentals of biology with emphasis on classes of biological molecules, the organization and function of the cell, energy flow in plants and animals, principles of inheritance and evolution with correlated laboratory work. (Three lecture hours and one three-hour laboratory weekly) 4 semester credit hours. Typically offered: Periodically.

BIOL 118 General Zoology with Lab. The general study of anatomy and physiology of animals, and the detailed study of the various animal phyla. Includes units on metabolism, genetics, evolution and reproduction with correlated laboratory work. Does not meet the requirements for science majors

or pre-professional programs. Prerequisites: none. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Life Science Core Elective. Typically offered: Fall Term.

BIOL 180 The Ecology of a Changing Planet. Introduces the nonscience major to the basic ecological processes and science that are involved in many environmental concerns. 3 semester credit hours. Life Science Core Elective. Typically offered: Spring Term.

BIOL 193 Introduction to Cellular Biology with Lab. Presentation of the concepts of biology with emphasis on cellular structures and their function, cellular metabolism, genetics and reproduction. Introduction to diverse life forms including bacteria, protists, and fungi, with correlated laboratory work. Prerequisites: high school chemistry, or concurrent enrollment in CHEM 111 and high school biology. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Life Science Core Elective. Typically offered: Fall Term.

BIOL 194 Introduction to Biological Organisms and Ecology with Lab. The study of plant and animal structure and function along with the concepts of ecology and evolution, with correlated laboratory work. Prerequisites: BIOL 193 or permission of Division Chair. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Life Science Core Elective. Typically offered: Spring Term.

BIOL 207 Introductory Microbiology. Through multimedia presentations and laboratory research, students will explore the microbial world around them. Topics include microbial anatomy and physiology, the body's response to microbial invasion, developments to prevent and counteract microbial invasion, and environmental impact and industrial uses of microbes. Recommended for pre-nursing students. Prerequisites: CHEM 105 or 111. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Life Science Core Elective. Typically offered: Spring Term.

BIOL 208 General Microbiology. Comprehensive survey of the biology of microorganisms, especially bacteria. Includes topics in growth, metabolism, physiology, taxonomy, ecology and biotechnology. Lecture and lab. IAI CLS 905; NUR 905. Prerequisite [Main Campus]: "C" or better in BIOL 197, BIOL 198, BIOL 199 or 299, CHEM 101 or 113, and CHEM 103 or 123. Prerequisite [Springfield Campus]: BIOL 193, CHEM 121. 4 semester credit hours. Typically offered: Fall and Spring Terms.

BIOL 216 Human Anatomy and Physiology I with Lab. A basic course in the biology of the human body including study of cell and tissue structure and function, along with the energy concepts of the human. This is followed by a detailed presentation of the skeletal, muscular, integumentary, and nervous systems including the special senses. Laboratory work will be correlated with lecture material. Prerequisites: 1 year of high school biology and chemistry; CHEM 105 or CHEM 111 or permission of Division Chair. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Life Science Core Elective. Typically offered: Fall Term.

BIOL 217 Human Anatomy and Physiology II with Lab. A continuation of BIOL 216 with detailed study of structure and function of the circulatory, respiratory, digestive, excretory, endocrine, immune and reproductive systems, with correlated laboratory activities. Prerequisites: BIOL 216. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Life Science Core Elective. Typically offered: Spring Term.

BIOL 221 Field Biology. Concentrated course of field experiences in life sciences: collection, identification, and ecological study of organisms in natural habitats. Special fees determined by location of fieldwork. 3 semester credit hours.

BIOL 229 Biostatistics. A quantitative approach to biology; emphasis is on the design and analysis of biological experiments. Prerequisites [Main Campus]: "C" or better in MATH 110 or placement higher than 110, BIOL 197, 198, and 199 or 299 or NTSC 152, CHEM 113, and CHEM 123. Prerequisites [Springfield campus]: MATH 110 or higher, BIOL 194. 3 semester credit hours. Typically offered: Fall and Spring Terms.

BIOL 252 Genetics with Lab. Designed for science and pre-professional students, this course explores the genetic code of life via classroom lectures and laboratory activities. Topics include the history of the field of genetics, molecular structure of nucleic acids, current research, and epigenetics. Advanced laboratory techniques will introduced, including bacterial transformation, quantitative tetrad analysis, and live specimen colony management. Prerequisites: BIOL 193; CHEM 121; sophomore standing. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Typically offered: Fall Term.

BIOL 291 Selected Topics. Special topics in biology chosen for the interests or needs of students. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-4 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

BIOL 292 Biology Teaching. Opportunity for motivated students that have demonstrated excellent ability in theoretical aspects and practical techniques covered in prior laboratory coursework with experience to (1) assist in the teaching of an undergraduate laboratory science course, (2) grade assignments and tests, and (3) prepare reagents and equipment for laboratory use. Maximum of 2 credits allowed towards major. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1 semester credit hour. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

BIOL 295 Independent Study. Provides opportunity for advanced major to pursue study in a field of biological interest. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

BIOL 299 Quantitative Biology Laboratory for Transfer Students. Methods and techniques of biology laboratory investigation. Experimental design, data collection and statistical analysis, graphical representation of data, interpretation of results. Includes Biological Science Department orientation activities for transfer students. Credit may not be earned in BIOL 199 and BIOL 299 at Benedictine University. Required for transfer students majoring in the biological sciences. Prerequisite: Transfer credit for BIOL 197, BIOL 198, and BIOL 199. 1 semester credit hour. Typically offered: Fall and Spring Terms.

BIOL 305 Environmental Toxicology. A study of the toxic effects of chemicals on human and ecological populations. Includes the physiological, genetic, and teratogenic effects of chemicals on humans and the study of biomagnification of chemicals through the food chain. Case studies and

risk modeling using computers will be included to integrate theory and regulatory compliance. Prerequisite: "C" or better in BIOL 256 or BIOL 258. Cross listed with ENVS / BIOL 305. 3 semester credit hours. Typically offered: Periodically.

BIOL 313 Evolution. A study of evolutionary processes, including Darwinian and non-Darwinian evolutionary theory, genetic mechanisms, social issues, and the role of natural selection in the formulation of species and higher categories. Emphasis is placed on the phylogeny of major animal groups. Prerequisite: "C" or better in BIOL 250. 3 semester credit hours. Typically offered: Fall Term.

BIOL 319 Histology. The microscopic anatomy of the tissues and organs of vertebrates. Lecture and lab. Prerequisite [Main Campus]: "C" or better in BIOL 258. Prerequisite [Springfield Campus]: BIOL 217. 4 semester credit hours. Typically offered: Periodically.

BIOL 343 Cell and Molecular Biology with Lab. The study of life processes at the level of molecules, macromolecules, subcellular particles and organelles; integration of structure and function of living things on the sub-organismal level. Laboratory techniques in cell and molecular biology will be coordinated with the course material. Prerequisites: BIOL 252, CHEM 246. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Writing Intensive Course. Typically offered: Fall Term.

BIOL 354 Immunology. Includes structural and functional components of the immune system, as well as types and control of immune response. Prerequisite [Main Campus]: "C" or better in BIOL 208 or BIOL 340. Prerequisite [Springfield Campus]: BIOL 208 or BIOL 343. 3 semester credit hours. Typically offered: Spring Term.

BIOL 361 Ecology with Lab. Study of the relationships of organisms to one another and to their environment. Includes evolutionary, behavioral, population, community, ecosystem, and applied ecology with a field and laboratory course designed to illustrate the principles of basic and applied ecology. Includes field trips, computer simulations, observational studies, and the design and implementation of ecological experiments. Writing intensive. Pre-requisite: BIOL 252. Fall term 4 semester credit hours. Writing Intensive Course.

BIOL 389 Biological Research. Research projects which require extensive use of laboratory or museum facilities. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

BIOL 391 Selected Topics. Special courses on various topics with which the student has not become acquainted in formal course work. May be an extension of or a supplement to material previously encountered, or lectures from a completely new area. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-4 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

BIOL 393 Great Ideas in Biology and Medicine. A study in the original writings of some of the great biologists and medial scientists to understand their thoughts and work and the historical development of the scientific method in biology. Prerequisites: "C" or better in BIOL 197, BIOL 198,

CHEM 113, and CHEM 123; 75+ credit hours standing. 1 semester credit hour. Writing Intensive Course. Typically offered: Fall and Spring Terms.

BIOL 395 Independent Study. Provides opportunity for advanced major to pursue study in a field of biological interest. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

BIOL 397 Biology Internship. Practical experiences in the life sciences under the supervision of the biology faculty. Prerequisite: "C" or better in: BIOL 197, BIOL 198, CHEM 113, and CHEM 123. 1-3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

Business

BUSN 103 Introduction to Business. Introduction to the fundamental principles behind the management of both for-profit and not-for-profit organizations. Introduction to economics, marketing, organizational management, human relations, accounting and finance. 3 semester credit hours.

BUSN 291 Topics. 3 semester credit hours. Typically offered: Fall Term. *Department Consent Required.*

Chemistry

CHEM 100 Basic Chemistry I with lab. A study of fundamentals of inorganic chemistry centered in chemical changes, stoichiometry and solution chemistry with emphasis on the role of chemistry in everyday life. The course is recommended for liberal arts majors and for those students who require more advanced chemistry but have had no high school chemistry. (Three lecture hours and one two-hour laboratory weekly) A student may not earn credit in CHEM 100 and in CHEM 101/102. 4 semester credit hours.

CHEM 105 Introductory Chemistry with Laboratory. This course introduces the fundamental concepts of chemistry including: the atom and periodic table; energy; bonding models; gas behavior; basic stoichiometry; solutions; acids, bases and buffers; and nuclear reactions. Lab introduces common laboratory skills and correlates with lecture material. Recommended for students in pre-nursing programs, liberal arts or other allied health programs; it does not meet the requirements for science majors or pre-professional programs. Prerequisites: MATH 095 or higher; math placement or permission of Division Chair. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Physical Science Core Elective. Typically offered: Fall Term.

CHEM 106 Survey of Organic Chemistry with Lab. This course continues from CHEM 105 with the introduction to the functional groups and nomenclature of organic chemistry, especially as they relate to important biochemical reactions. Lab exercises focus on skill development and exposure to important diagnostic tools common in a clinical environment. This course is recommended for students considering nursing and related fields; it does not meet the requirements for science majors or pre-professional programs. Prerequisites: grade of "C" or better in CHEM 105 or CHEM

111. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Physical Science Core Elective. Typically offered: Spring Term.

CHEM 111 General Chemistry I with Lab. This course is an introduction to the basic principles of chemistry to include: fundamental laws, theories and terminology; measurement and the scientific method; electron behavior, atoms and the periodic table; bonding and molecular geometry; balancing chemical reactions and stoichiometry; gas laws and kinetic molecular theory; solution chemistry; energy in chemical changes; and common laboratory techniques used in the chemistry laboratory. Prerequisites: high school chemistry or CHEM 105; MATH 110 or higher; math placement or permission of Division Chair. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Physical Science Core Elective. Typically offered: Fall Term.

CHEM 121 General Chemistry II with Lab. Building on concepts and skills developed in the first semester (CHEM 111), an understanding of the following will be developed: solution behavior; acid/base theory and buffers; thermodynamics and equilibria; reaction rates; electrochemistry; nuclear chemistry; an introduction to organic and biochemistry; and common laboratory techniques including qualitative analysis and spectrophotometry. Prerequisites: CHEM 111. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Physical Science Core Elective. Typically offered: Spring Term.

CHEM 233 Analytical Chemistry. An introduction to the theory and practice of quantitative analysis with focus on data analysis and interpretation. Topics discussed and laboratory methods include gravimetric analysis, chemical equilibria, spectroscopy, separation and electroanalytical techniques, and statistical analysis of data and error. Prerequisite: CHEM 241. (three lecture hours and one three-hour lab weekly). 4 semester credit hours.

CHEM 241 Organic Chemistry I with Lab. This course is the first of a two-semester sequence, intended for those students majoring in the sciences, or for those intending to pursue a graduate or professional degree that requires organic chemistry. Topics covered will include nomenclature, bonding theory, stereochemistry, reaction kinetics and thermodynamics, and focuses on a structural and mechanistic approach to the reactions of alkanes through alcohols, in both the aliphatic and aromatic series. The laboratory work teaches various techniques and reaction mechanisms that coordinate with lecture, including an introduction to GC, IR and NMR. Prerequisites: CHEM 121. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Typically offered: Fall Term.

CHEM 246 Organic Chemistry II with Lab. Continuation of CHEM 241 with a focus on the structural and mechanistic approach to the reactions of carbonyl functional groups, aromatics, amine and other nitrogen functional groups, and introduce the chemical structures common in many biomolecules. Some introduction to biochemistry, especially with reference to carbohydrates and proteins. Laboratory includes more qualitative and quantitative work, multi-step syntheses, and instrumental methods (e.g. NMR, IR, MS, UV) will be discussed in greater detail. Prerequisites: CHEM 241. 4 credit hours (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Typically offered: Spring Term.

CHEM 290 Selected Topics in Chemistry. Current topics in chemistry. Prerequisite [Springfield Campus]: Division consent. 1-3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

CHEM 292 Research Literature. Discussion and application of online sources containing scientific publications and other information, e.g., SciFinder. The introduction of a report for a research project will be completed. 1 semester credit hour. Typically offered: Spring Term.

CHEM 295 Chemistry Teaching. Opportunity for a student to work as a teaching assistant in the chemistry department. 1-3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

CHEM 390 Selected Topics in Chemistry. Current advanced topics in Chemistry. 1-3 semester credit hours. Typically offered: Spring Term. *Course Repeatable. Maximum number of units allowed 99.*

CHEM 393 Chemical Internship. Practical experiences in chemistry under the supervision of the chemistry program. 1-6 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 6.*

CHEM 398 Chemical Research. Original experimental research conducted under the supervision of a faculty or adjunct faculty member. Projects may be conducted on campus or at an affiliated research facility. Publication and public presentation of the research are course objectives. 1-3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

Communications

COMM 150 Introduction to Media Studies and Mass Persuasion. A writing and speaking-intensive introduction to communication arts theory and research, with an emphasis on analyzing mass media messages and understanding their underlying cultural and historical contexts. 3 semester credit hours. Writing Intensive Course. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms.

COMM 207 Editing for Publications. Introduction to the principles and practices of editing for books, magazines, and newspapers. Prerequisite: WRIT 102 or 103 or HNRS 190. 3 semester credit hours. 3 semester credit hours. Typically offered: Fall Term.

COMM 208 Layout and Design for Publication. Graphic design principles and professional processes are emphasized. Print projects may include organizational identity, response, advertising, newsletter, book/magazine, and other projects, using InDesign. Online design principles are introduced to enable design of a simple website. 3 semester credit hours. 3 semester credit hours. Typically offered: Spring Term.

COMM 209 Newswriting and Reporting. Principles and practice in gathering and writing news as well as preparing copy for publication. IAI MC 919. Prerequisite: WRIT 101. 3 semester credit hours.

Writing Intensive Course. Typically offered: Fall Term. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall Term.

COMM 221 Introduction to Public Relations. A survey of the professional practices, theories, core values, ethics, issues and problems of public relations in private-sector, government and not-for-profit organizations. Introduction to theoretical and practical aspects of persuasion, issue analysis, media campaign planning and strategies. Pre-requisite: WRIT-101 with a grade of "C" or better. 3 semester credit hours. Typically offered: Periodically.

COMM 251 History of Film. A cross-cultural study of the development of the cinema from its late 19th century origins to the present. IAI F2 909. 3 semester credit hours. Communications Core Elective. 3 semester credit hours. Communications Core Elective. Typically offered: Periodically.

COMM 252 Technical Writing. A practical course designed to train students for various fields that require technical writing skills - engineering, computer science, industry, etc. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

COMM 253 Public Relations Writing. Focuses on writing for print media. Students prepare news releases, newsletters and feature stories. Prerequisite: WRIT 102 or 103 or HNRS 190 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

COMM 254 Writing for the Electronic Media. A practical course designed to expose students to the various approaches, forms and techniques of writing for the electronic media. IAI MC 917. Prerequisite: WRIT 102 or 103 or HNRS 190. 3 semester credit hours. 3 semester credit hours. Typically offered: Spring Term.

COMM 255 Television Production. Laboratory course introducing students to the technical and aesthetic principles utilized in preparing programming for television. IAI MC 916. Fee: \$45. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Periodically.

COMM 257 Digital Video Production. Laboratory course introducing students to the technical and aesthetic principles utilized in recording and editing digital video. Course fee: \$50. 3 semester credit hours. Typically offered: Fall Term.

COMM 263 Advertising Copywriting. Covers the fundamentals of writing copy and designing advertising for all forms of print and electronic media. Prerequisite: WRIT 101. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Spring Term.

COMM 264 Sports Journalism. This course is designed for students to adapt skills learned in COMM 209 toward a variety of sports environments and applications. The students will write press releases and do hard news reporting, and be informed of the inner workings of the sports communication environment. 3 semester credit hours. 3 semester credit hours. Typically offered: Periodically.

COMM 265 Sports Broadcasting. Students will apply basic skills learned in COMM 254/255 to a variety of video and multimedia applications. Emphasis will be on writing effective sports stories, conducting professional-looking standups, and covering the sports beats on campus. Students will

also produce a half-hour sports cable show. 3 semester credit hours. 3 semester credit hours. Typically offered: Periodically.

COMM 291 Topics. Study of aspects of communication on the intermediate level not listed as regular course offerings. Prerequisite: WRIT 102 3 semester credit hours. Course Repeatable. Maximum number of units allowed 99. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

COMM 297 Internship. Practical experience in public relations, electronic media, journalism, advertising or multimedia supervised by the Communication Arts department. Up to three internship hours may be applied toward the 39 hour major requirement. Up to 12 hours may apply toward the 120 hours for graduation. Prerequisite: Consent of internship coordinator, and at least 3.0 G.P.A. 2-6 semester credit hours. Department Consent Required. Course Repeatable. Maximum number of units allowed 12. 2-6 semester credit hours. Typically offered: Annually. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

COMM 317 Mass Media Law and Ethics. Examines the many legal and ethical issues related to the mass media. Prerequisite: WRIT 102 or HNRS 191. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Spring Term.

COMM 335 Photojournalism. Teaches the skills in creating and evaluating images for photojournalism purposes. 3 semester credit hours. Typically offered: Periodically.

COMM 337 Advanced Journalism Writing. Students practice the major styles of journalistic writing beyond newswriting: public affairs reporting, feature writing, magazine writing and editorial writing. Prerequisite: COMM 209. 3 semester credit hours. Writing Intensive Course. Typically offered: Periodically. 3 semester credit hours. Writing Intensive Course. Typically offered: Periodically.

COMM 353 Advanced Seminar in Writing, Editing and Page Design for Publications. In this seminar, students work on a major publications project, engage in critical reading of media content, discuss writing, editing and page design strategies, have drafts of their work critiqued in class, and develop a professional portfolio of the work. Prerequisite: COMM 150, COMM 207, COMM 208, and COMM 209. 3 semester credit hours. Writing Intensive Course. Typically offered: Periodically. Department Consent Required. 3 semester credit hours. Writing Intensive Course. Typically offered: Periodically. *Department Consent Required.*

COMM 381 Multimedia Production for the Web. Students experiment with a variety of web-based materials utilizing applications from text and visual media. Prerequisite: COMM 208, WRIT 102. 3 semester credit hours. Typically offered: Periodically. Department Consent Required. 3 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

COMM 385 Television and Society. An in-depth investigation of the television industry and its impact on American and world culture. Prerequisite: WRIT 102. 3 semester credit hours. Typically offered: Periodically.

COMM 386 Media and Government. Examines major theoretical models of a central problem in mass communications from historical and cross-cultural perspectives. Prerequisite: WRIT 102. 3 semester credit hours. Typically offered: Periodically.

COMM 387 The Literature of Journalism. Traces the development of the literary genre in journalism from the 18th century essays of Defoe, Steele and Addison to the "new journalism" of Wolfe and Capote. Prerequisite: WRIT 102. 3 semester credit hours. Typically offered: Periodically.

COMM 388 Studies in Film Theory and Criticism. Selected topics in film theory and criticism. 3 semester credit hours. Communications Core Elective. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 9.*

COMM 390 Images of Men and Women in Advertising. A critical investigation of how we are influenced in the way we think about gender and gender relationships. Prerequisite: WRIT 102. 3 semester credit hours. Typically offered: Periodically.

COMM 391 Topics. Study of aspects of communications on the advanced level not covered in the above course offerings. Prerequisite: COMM 207, COMM 208, WRIT 102. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

COMM 393 Senior Portfolio. Required of all Communication Arts majors, this course is designed to help the student improve the appearance, content, and organization of their Senior Portfolio. Prerequisite: Senior Standing 3 semester credit hours.

COMM 398 Internship. Advanced practical experience in public relations, electronic media, journalism, advertising or multimedia supervised by the Communication Arts department. Up to 3 internship hours may be applied toward the 39-hour major requirement. Up to 6 hours may apply toward the 120 hours for graduation. Prerequisite: 3.0 GPA, COMM 297, and consent of internship coordinator and department chair 2-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

Computer Science

CMSC 100 Introduction to PC Software Applications. Introduction to the software applications of word processing, spreadsheet, and database management using the Microsoft Office Suite for Windows. For non-majors. 3 semester credit hours.

CMSC 180 Introduction to Computing. An introduction to the fundamental principles of computing and the computers relevance and impact on the world today with an overriding theme of algorithms. Topics include hardware, software, data representation, networks, and databases with applications in simulation, modeling, electronic commerce and artificial intelligence. 2 semester credit hours. Math Comp Sci Core Elect. Typically offered: Fall and Spring Terms.

CMSC 183 Office Suite Laboratory. Introduction to the software applications of word processing, spreadsheets, and presentation software using the Microsoft Office Suite for Windows. Prerequisites: coregistration in CIS/CMSC 180. 1 semester credit hour. Math Comp Sci Core Elect. Typically offered: Fall and Spring Terms.

Criminal Justice

CJUS 150 Introduction to Statistics. Basic course in statistical techniques which includes measures of central tendency, probability, sampling, estimation and hypothesis testing. For non-business majors. IAI M1 902. Prerequisite: "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

CJUS 240 Social Problems. Effects of social change, disorganization and value conflict on family life, mental health, ethnic relations, crime and delinquency, related topics. IAI S7 901. Prerequisite: SOCL 100. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

CJUS 251 Statistics II. ANOVA designs, correlation, regression, non-parametric tests, survey and experimental research techniques, social and behavioral measurements and multivariate analysis. Prerequisite: PSYC 150 or SOCL 150 or CJUS 150. Fee: \$35 3 semester credit hours.

CJUS 260 Introduction to Criminal Justice. Examination of the criminal justice system: police, courts and corrections. Analysis of functions, jurisdiction, operation and relationships. IAI CRJ 901. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

CJUS 291 Topics. Topics of interest to criminal justice majors 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 9.*

CJUS 306 Correctional System. Theory and research relating to treatment, incarceration and rehabilitation of the offender. IAI CRJ 911. Prerequisite: SOCL/CJUS 260. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

CJUS 321 Crime and Delinquency. Social and psychological factors related to crime, theories of crime and delinquency, police and court systems and correctional institutions. 3 semester credit hours. Typically offered: Fall Term, Even Years. 3 semester credit hours. Typically offered: Spring Term.

CJUS 322 Criminal Law. An examination of criminal law including origins and developmental changes to the present. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Spring Term.

CJUS 351 Research Methods in the Social Sciences. An analysis of various theoretical approaches to the study of social sciences as well as discussion and completion of the first two chapters of an original research design. Prerequisite: PSYC 251 or SOCL 251 or CJUS 251. Fee: \$35. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms.

CJUS 356 Clinical Practicum Lab. Focus is on teaching interpersonal and primary-level skills of empathy, listening, and interviewing to the introductory level helping professional. Prerequisite: Junior or Senior in CJUS program. 4 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. 4 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

CJUS 390 Criminal Justice Field Placement. This field placement provides experience in practice in a professional agency under the supervision of a trained practitioner. Prerequisite: CJUS 356, consent of field placement director prior to the 10th week of the semester preceding the field placement and a GPA of 2.5 or greater. 3-6 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. Department Consent Required. Course Repeatable. Maximum number of units allowed 6. 3-6 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 6.*

CJUS 391 Topics in Criminal Justice. Relevant topics according to the needs and interests of the criminal justice students. Prerequisite: CJUS 260. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

CJUS 395 Senior Thesis. Completion of an original research project under faculty supervision, involving either an original survey design, case study, or experimental analysis. Prerequisite: PSYC 351 or SOCL 351 or CJUS 351. 3 semester credit hours. Department Consent Required. 3 semester credit hours. *Department Consent Required.*

Economics

ECON 101 Principles of Macroeconomics. Determination of income, employment, and the price level. Effects of fiscal and monetary policies. IAI S3 901. Prerequisite: MATH 105, 108, or 110. 3 semester credit hours. Economics Core Elective.

ECON 102 Principles of Microeconomics. Demand-Supply model, consumer and firm decision-making, market structures, price determination, resource allocation. IAI S3 902. Prerequisite: MATH 105, 108, 110. 3 semester credit hours. Economics Core Elective.

ECON 202 Price Theory and Application. Analysis of consumer choices and of decision-making by firms under different market conditions. Prerequisite: "C" or better in ECON 101 and ECON 102. 3 semester credit hours.

ECON 310 Money and Financial Markets. Study of money, the banking system, monetary theories, and relation of the monetary system to national income, employment, and price levels. Prerequisite: ECON 101, ECON 102. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

ECON 397 Internship. Practical experiences in business related fields under the supervision of the program. 3 semester credit hours. *Department Consent Required.*

Education

EDUC 200 Preclinical Experience. Directed observation and participation in off-campus setting. Students participate in a 35 hour experience. Transportation needed. IAI EED 904; IAI SED 905. Prerequisite: Cumulative GPA of 2.75, preclinical application and coregistration in EDUC 205. Student must have passed TAP test to enroll in class. 1 semester credit hour. Typically offered: Fall, Spring, and Summer Terms.

EDUC 205 History and Philosophy of Education. A survey of education in the United States from the Colonial period to the present with emphasis on the major philosophies which have influenced American education. Philosophies relative to each grade level, including middle grades, are presented. Prerequisite: Cumulative G.P.A. of 2.75 and coregistration in EDUC 200 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

EDUC 206 Transfer Introduction to Education Seminar. A required seminar course for students who have been awarded transfer credit for Education 205 (History and Philosophy of Education). Registration is required during the first semester of matriculation in the School of Education. The seminar will meet for 5 sessions and will serve as introduction to the Benedictine University School of Education, LiveText, and the portfolio process. Students registering for this course will undergo a State of Illinois background check. Typically offered: Fall, Spring, and Summer Terms.

EDUC 207 Introduction to Education Seminar. For all Education majors and minors who enter Benedictine University as of Fall 2010 Typically offered: Fall, Spring, and Summer Terms.

EDUC 210 Educational Psychology. Survey of theories of classroom learning processes including human growth and development, evaluation, the exceptional child and the disadvantaged child. Emphasis also on the developmental characteristics and nature and needs of the early adolescent. Cross-referenced as EDUC241/PSYC 241. IAI SED 902. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

EDUC 215 Technology for Teachers. This required course will cover topics relevant to use of technology in the classroom, lesson planning via technology, and use of the Internet for education purposes. Other topics include: LiveText, Powerpoint, WebCT, Inspiration, Dreamworks, design of web pages and user groups, spreadsheets for grade reports, and digital portfolios. Prerequisite: Coregistration in EDUC 200 and EDUC 205 (or EDUC 206); cumulative G.P.A. of 2.75 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

EDUC 235 Children's Literature. Survey of forms of literature written for children. Emphasis on appreciation and evaluation of books and authors, choices for age groups, school and home settings and the importance of children's literature as a basis for a lifelong enrichment. Prerequisite: Cumulative GPA of 2.75. 3 semester credit hours. Typically offered: Spring Term.

EDUC 240 Reading and Language Arts. The development of total content in reading and language arts: emphasizes an holistic approach to teaching reading, writing, speaking and listening. Specific methods and philosophies are discussed relative to grades K-2, 3-5 and 6-8. Prerequisite: EDUC 205 and cumulative GPA of 2.75. 3 semester credit hours. Typically offered: Fall Term.

EDUC 260 Survey of Exceptional Children. Discussion of atypical development: characteristics of persons labeled as having mental retardation, learning disabilities, behavioral disabilities, sensory deficits, speech disorders and health/physical challenges. Diagnosis, referral, educational strategies and legal implications are reviewed. Cross-listed as EDUC 204/PSYC 204. IAI ECE 913; IAI SED 904. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

EDUC 310 Measurement and Evaluation. Introduction to basic education statistics, K-12 assessments, understanding assessment issues and understanding educational research. Includes design of classroom tests and education assessments; portfolio assessment; and assessment strategies for exceptional children. Prerequisite: EDUC 260 and cumulative G.P.A. of 2.75. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

EDUC 312 Methods of Teaching Social Studies - Elementary. Methods and materials for teaching social studies in elementary and middle schools. Specific methods (e.g. reading in the content area) and philosophies are discussed relative to grades K-2, 3-5 and 6-8. Prerequisite: EDUC 205, cumulative G.P.A. of 2.75, and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 315 Methods of Teaching Mathematics - Elementary. Characteristics and concepts of programs in elementary and middle-grade mathematics. The patterns of meaningful instruction, curricular trends and teaching materials and philosophies relative to grade K-2, 3-5 and 6-8 are discussed. Students participate in a 35-hour preclinical experience. Transportation needed. Prerequisite: EDUC 205, co registration in EDUC 316, cumulative G.P.A. of 2.75, and TEP. 3 semester credit hours. Typically offered: Fall Term.

EDUC 316 Preclinical Experience - Elementary Mathematics. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite: Preclinical application, coregistration in EDUC 315, cumulative G.P.A. of 2.75, and TEP. Typically offered: Fall Term. *Department Consent Required.*

EDUC 318 Methods of Teaching Science - Elementary. Methods and materials for teaching science in the elementary and middle school classrooms. Specific methods (e.g. reading in the content area) and philosophies are discussed relative to grades K-2, 3-5 and 6-8. Prerequisite: EDUC 205, cumulative G.P.A. of 2.75, and TEP. 3 semester credit hours. Typically offered: Spring Term.

EDUC 320 Literacy and Assessment. Includes discussion of reading assessment in terms of diagnosing problems and prescribing instruction for children experiencing reading difficulties in grades K-2, 3-5 and 6-8. Students participate in a 35-hour clinical experience that affords the opportunity to apply theory into practice. Transportation needed. Prerequisite: EDUC 240, coregistration in EDUC 321, cumulative G.P.A. of 2.75, and TEP. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall, Spring, and Summer Terms.

EDUC 321 Preclinical Experience: Reading. Thirty-five hours in an off-campus setting. Transportation needed. Prerequisite: Preclinical application, coregistration in EDUC 320, cumulative G.P.A. of 2.75, and TEP. *Department Consent Required.*

EDUC 352 Young Adult and Multicultural Literature in the Middle and Secondary School Curriculum. Evaluation, selection and teaching of literature to serve the interests and reading needs of students from the middle-school through high school. The course includes literature which reflects the culture and heritage of America's multiethnic/multicultural population. The course emphasizes theory and research in reading comprehension, literary criticism, including reader response and curriculum and instruction. In addition, the course includes critical analysis, methods of teaching literature and the uses of literature in the curriculum. Prerequisite: Cumulative G.P.A. of 2.75 and TEP. 3 semester credit hours. Typically offered: Periodically.

EDUC 370 Student Teaching Elementary and Middle School. Full semester teaching experience under professional guidance. Includes observation, planning and supervised teaching. Each semester. Prerequisite: Required professional education courses and approval by the Teacher Education Committee. Applications must be submitted one year in advance. Transportation needed. Cumulative G.P.A. of 2.75, admitted into TEP, and ICTS content test. 12 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required.*

EDUC 391 Topics. Relevant topics according to the needs and interest of education students. Prerequisite: Cumulative G.P.A. of 2.5 and TEP. 1-3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

English as a Second Language

ESLS 10 Beginning Listening/Speaking. Recognizes the names of familiar objects by listening to language in clearly contextualized situations. Constructs meaning by combining comprehension of familiar vocabulary words with a variety of strategies to fill in gaps. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 100 College Conference Writing. This bridge course introduces and develops college-level; writing as a writing process. Improves on developing and supporting a thesis in a variety of organized essays including a research paper. Emphasizes self and peer editing, and strategies for essay exams. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Course Repeatable. Maximum number of units allowed 27.*

ESLS 11 Beginning Reading. Begins with the basic vocabulary and sentence patterns; reading oral presentations. Identifies an increasing number of cognates, borrowed words, and highly contextualized words and phrases. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 13 Beginning Oral Communication. Focuses on successfully communicating basic survival needs for campus and community. Develops conversational abilities by focusing on questions and answers as the foundation of oral interaction. Prerequisite: Coregistration with ESLS 014. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 14 Pronunciation I Workshop. Workshop oriented course to develop speech clarity with emphasis on phonetic alphabet identifying, distinguishing, producing, and contrasting correct sounds, stress, intonation, and rhythm. Learns various accent reduction techniques. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 15 Beginning Writing. Emphasizes sentence level grammar; practice supplying written responses to questions. Begins to organize ideas into simple paragraph form. Prerequisite: Coregistration in ESLS 016. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 16 Beginning Grammar. Workshop oriented course that emphasizes the formal properties of the English language. Focuses on basic statement and question patterns, identifying parts of speech, subject/verb agreement, simple and continuous present, past, and future tenses, and introduce nouns/pronouns, articles, adverbs, and adjectives, demonstratives, possessives, conjunctions, quantifiers, prepositions, and modals. Practices error correction and TOEFL tests. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 15.*

ESLS 17 Individualized Instruction. A personalized program of study designed to satisfy individual, academic or professional goals. Emphasis may be placed on one or more language modalities. Open to the beginning, intermediate, and advanced- level student. 1-3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 27.*

ESLS 20 Intermediate Listening/Speaking. Improves speaking and listening abilities in performing social and academic functions. Practices note-taking from oral talks, and video/audio clips; identifies main points and support. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 21 Intermediate Reading. Reads a variety of simple connected texts with increased understanding. Attention to skimming and scanning as well as paraphrasing and summarizing short texts. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 24 Pronunciation II Workshop. Workshop oriented course to develop speech clarity with emphasis on phonetic alphabet identifying, distinguishing, producing, and contrasting correct sounds, stress, intonation, and rhythm. Learns various accent reduction techniques. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 25 Intermediate Writing. Learns to write paragraphs with a topic sentence, supporting details, and concluding statement. Writes on a variety of topics. Prerequisite: Coregistration with ESLS 026. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 26 Intermediate Grammar. Workshop oriented course that emphasizes the formal properties of the English language. Identifies and develops a greater control of the students' grammar needs. Areas of focus include: present, past, future, and perfect tenses; noun phrases; adjective clauses and adjective phrases; comparisons; modals; gerunds and infinitives. Practices error correction and TOEFL tests. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 15.*

ESLS 27 Individualized Instruction. A personalized program of study designed to satisfy individual, academic or professional goals. Emphasis may be placed on one or more language modalities. Open to the beginning, intermediate, and advanced- level student. 1-3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 27.*

ESLS 30 Advanced Listening/Speaking. Uses authentic listening sources to develop the ability to listen to general, academic information and improve note-taking skills. Students will attend a lecture in their field of study. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 31 Advanced Reading. Reads authentic academic and literary texts. Focus on critical reading skills such as recognizing bias and assessing the validity of written material. Improves skimming and scanning techniques. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 32 Intermediate Oral Communication. Practices interaction through collaborative grouping; conduct interviews, interviews, make cultural comparisons, and gives short oral presentations. Prerequisite: Co-registration with ESLS 024. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 18.*

ESLS 33 Advanced Oral Communication. Participates fully in discussions and present ideas on complex topics. Prepares formal presentations making full use of support technology. Prerequisite: Co-registration with ESLS 034. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Course Repeatable. Maximum number of units allowed 18.*

ESLS 34 Pronunciation III Workshop. Workshop oriented course to develop speech clarity with emphasis on phonetic alphabet identifying, distinguishing, producing, and contrasting correct sounds, stress, intonation, and rhythm. Learns various accent reduction techniques. 2 semester credit hours. Typically offered: Fall and Spring Terms. *Course Repeatable. Maximum number of units allowed 18.*

ESLS 35 Advanced Writing. Focuses on writing as a process. Writes cohesive works in various patterns of essay organization. Prerequisite: Co-registration with ESLS 036. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 9.*

ESLS 36 Advanced Grammar. Workshop oriented courses that emphasizes the formal properties of the English language. Identifies and improves on students' grammar needs. Areas of focus include: present, past, future, and perfect tenses; noun phrases and clauses; adjective clauses and adjective phrases; gerunds and infinitives; modals; passives; conditionals; adverb clauses and phrases; connecting ideas. Practices error correction and TOEFL tests. 3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 15.*

ESLS 37 Individualized Instruction. A personalized program of study designed to satisfy individual, academic or professional goals. Emphasis may be placed on one or more language modalities. Open to the beginning, intermediate, and advanced- level student. 1-3 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 27.*

Finance

FINA 220 Personal Financial Planning. An introduction to personal financial planning. Topics covered include: time value of money, tax planning, cash management, credit cards, purchase of home, auto and health insurance, retirement and estate planning. 3 semester credit hours. Business Core Elective. Typically offered: Spring Term. 3 semester credit hours. Business Core Elective. Typically offered: Spring Term.

FINA 300 Managerial Finance. An analysis of the functions of financial management in the decision-making process of the firm. Prerequisite: ACCT 112, MATH 115. 3 semester credit hours. Typically offered: Fall and Spring Terms. 3 semester credit hours. Typically offered: Fall and Spring Terms.

FINA 310 Money and Financial Markets. Study of money, the banking system, monetary theories, and relation of the monetary system to national income, employment, and price levels. Prerequisite: ECON 101, ECON 102. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

FINA 320 Investments. A framework useful to develop investment policy for individuals and institutions; security evaluation methods and portfolio management strategies are developed. Prerequisite: FINA 300. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

FINA 380 Advanced Managerial Finance. A continuation of Managerial Finance with a focus placed upon corporate financial decisions. The case approach is used to analyze various advanced finance-related topics. This is the capstone course for the Finance major. Prerequisite: FINA 300. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

FINA 397 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Department Consent Required. 2-6 semester credit hours. *Department Consent Required.*

Fine Arts

FNAR 100 Art Appreciation. Introduction to the visual arts through lectures, discussions and field trips. IAI F2 900. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall and Spring Terms.

FNAR 101 Fundamentals of Design. Emphasizes the knowledge and application of basic design principles of two-dimensional images in representational and abstract forms. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term.

FNAR 103 Fundamentals of 3D Design. A beginning studio course. Study of volume, space, texture and other elements of three-dimensional form. Simple constructions and sculpture. Previous experience in art is not necessary. 3 semester credit hours. Typically offered: Spring Term.

FNAR 111 Drawing. Fundamental drawing from observation with emphasis on linear perspective and tonal modeling of the still life and human head. IAI ART 904. Fee \$30.00 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall and Spring Terms.

FNAR 114 Drawing II. Further development of fundamental skills using diverse drawing media, particularly color, and advanced approaches to drawing still-life, perspective, and the human figure. Prerequisite: FNAR 111. Course fee. 3 semester hours. 3 semester credit hours. Typically offered: Spring Term.

FNAR 161 Ceramics I. Introduction to various hand-building techniques, decorative methods, firing processes and use of the potter's wheel. IAI ART 912 3 semester credit hours.

FNAR 162 Ceramics II. Further development of projects in hand building or throwing, study of glaze materials and glaze calculation. Prerequisite: FNAR-161. 3 semester credit hours. Typically offered: Spring Term.

FNAR 202 Black and White Photography. Foundations of photographic theory, shooting, and print developing. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term.

FNAR 203 Ancient and Medieval Art. Photographic presentations of significant paintings, sculptures and buildings with emphasis on religious concepts. IAI F2 901; ART 901. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term.

FNAR 204 Renaissance to Modern Art. Pictorial survey of painting, sculpture and architecture in Western civilization with emphasis on religious concepts. IAI F2 902; ART 902. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Spring Term.

FNAR 210 Figure Drawing. Introduction to drawing the human figure from observation. IAI ART 906. 3 semester credit hours. Typically offered: Periodically.

FNAR 225 Art for Elementary Teachers. A methods and media lecture/studio course for elementary education students in the teaching of art to children from grades K-6. The course will identify art content, art media, and instructional pedagogy for including art at the elementary level. Prerequisite: Enrollment in the Elementary Education program or permission of the instructor. 3 semester credit hours. Typically offered: Fall Term.

FNAR 249 Acrylic Painting. An introduction to concepts, materials and techniques of painting in various media. Exploration into color through mixing, relationships and composition. Fine Arts/Music Core Elective. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term.

FNAR 250 Oil Painting. An introductory studio course emphasizing color mixing as it relates to traditional representation. IAI ART 911. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Spring Term.

FNAR 291 Topics. Focuses on various topics relating to the needs of the students and recent events and/or topics of interest. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Periodically.

FNAR 292 Black and White Photography. Foundations of photographic theory, shooting, and print developing. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term.

FNAR 293 Digital Photography. Emphasis on shooting and manipulation of digital camera imagery. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Spring Term.

FNAR 294 Computer Art. Creation of artwork using the computer as medium. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Periodically.

FNAR 296 Science Meets Art. The relationship between science and art will be studied in 8 two-week units to help science majors develop illustration skills and an appreciation for qualitative empirical evidence. Pre-requisite: completion of one life science course and one physical science course. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Spring Term.

FNAR 311 Advanced Drawing. An intensive investigation into the use of value and the compositional elements of picture making. Emphasis will be placed on the methods of representation as evidenced by the traditions of past masters. Prerequisite: FNAR 111. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Periodically.

FNAR 391 Topics. Focuses on various topics relating to the needs of the students and recent events and/or topics of interest. 1-3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

FNAR 395 Independent Study. A course designed to provide students with individual and focused coursework in some area of studio art. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

Health

HLTH 101 Personal and Community Health. Units on personal health: discussion of disease and its control; fundamentals of physical and emotional health. Units on community health: study of medical services; government agencies and controls; public health services in state and local areas. IAI ECE 901. 3 semester credit hours.

Health Science

HLSC 101 Medical Terminology. A course designed to prepare the student to interpret terminology found in medical literature and patient records. Emphasis placed on pronunciation and definition of medical terms by the study of root words, suffixes and prefixes. Also included are dosages, measurements, common abbreviations, diagnostic tests, some basic anatomy, and selected specialty terms concerning pharmacology, radiology, nuclear medicine, and physical therapy. Prerequisites: none. (three lecture hours weekly). 3 semester credit hours. Typically offered: Spring and Summer Terms.

HLSC 206 Health Care and Science Careers. Students will explore, in detail, the various academic and professional paths possible when considering a career in science or health care. Weekly assignments will include current readings, self-assessment, panel discussions, case studies, shadowing experiences, independent research, and preparation for application to

graduate/professional schools or the private sector. Active participation and critical dialogue are an integral part of the course content. Prerequisites: sophomore standing as a Health Science or Biology major. (one lecture hour weekly). 1 semester credit hour. Typically offered: Fall Term. *Department Consent Required.*

HLSC 300 Practicum Experience in Veterinary Medicine. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required.*

HLSC 301 Practicum Experience: Medicine. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite: Instructor Consent, 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required.*

HLSC 302 Practicum Experience: Dentistry. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required.*

HLSC 303 Practicum Experience: Occupational Therapy. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required.*

HLSC 305 Practicum Experience: Podiatry. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required.*

HLSC 307 Practicum Experience: Physical Therapy. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required.*

HLSC 309 Practicum Experience: Optometry. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus] 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required.*

HLSC 310 Practicum Experience: Chiropractic. The Practicum provides 75 hours of observation for the specific Healthcare career. The observation is in a variety of clinical sites and/or private practice offices. Prerequisite [Main Campus]: 3.4 GPA, 30 hours completed at Benedictine University. Prerequisite [Springfield Campus]: 3.2 GPA, 30 hours completed at Benedictine University. 2 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. *Department Consent Required.*

HLSC 390 Internship. Practical experience in exercise physiology in various settings such as Villa St. Benedict, hospitals, rehabilitation centers, YMCAs, colleges and corporations under the supervision of an experienced on-site professional. Internships available in wellness/fitness, rehabilitation, or research. 1-2 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

History

HIST 111 American History to 1865. Covers the Colonial era, the revolutionary age, internal growth of the Republic, and causes of the Civil War. IAI H2 904; S2 900; HST 911. 3 semester credit hours. Typically offered: Fall Term.

HIST 112 American History since 1865. Covers the industrialization of America; the organization of labor; the development of imperialism; the growth of foreign policy. IAI H2 905; S2 901; HST 912. 3 semester credit hours. Typically offered: Spring Term.

HIST 203 Historiography. Introduction to the methodology and practice of history and to some of the great historians. Includes an emphasis on world history. Prerequisite: HIST 111, HIST 112. 3 semester credit hours. Writing Intensive Course.

HIST 213 Contemporary Latin America, 1898-2000. Beginning with the creation of independent nation states in Latin America, this course will survey the social processes, issues and events that have given rise to contemporary Latin America as well as the impact of Latin America on the wider world. 3 semester credit hours.

HIST 220 The Mediterranean World. Studies the ancient cultures located around the Mediterranean Sea and the contributions they made to the development of western civilizations to about 500 A.D. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" as reflected in religion, art, philosophy, and social, political, and economic institutions. IAI H9 900. 3 semester credit hours.

HIST 223 Constitutional History of England. The growth and change of the English constitution from late Roman times to the present. 3 semester credit hours. Typically offered: Spring Term.

HIST 230 The Baptism of Europe. Studies the development and Christianization of Europe in the Middle Ages (500-1500 A.D.). Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" through social structures (religious, political, economic) and through the interactions and/or conflicts between people and cultures (Eastern and Western Christianity; Christianity, Judaism, Islam). 3 semester credit hours.

HIST 240 Converging Hemispheres. Studies the increasingly global encounter of peoples, ideas, and cultures from the Age of Exploration (from 1400 A.D.) into the Twentieth century. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the shift in emphasis from "person in community" the values of freedom, equality, and responsibility. Examines the construction of the modern era focusing on scientific revolutions, economic transformation, religious reformations, and revolution, resistance and republicanism. 3 semester credit hours.

HIST 251 The French Revolution in the Wider World. Examines the intellectual and political dimensions of the French Revolution as well as the intellectual and political ramifications of that revolution in the wider world. The course will focus on the French Revolution as a generative factor in the wars of independence in the Americas, the Haitian Revolution, the European revolutions of 1848 and the Paris Commune. 3 semester credit hours.

HIST 252 19th Century Europe. Covers the political, military, economic, social, and cultural development of Europe from the French Revolution to 1900. 3 semester credit hours.

HIST 262 Antebellum America, 1824-1877. This course examines the economic, political and cultural changes in the United States, culminating in the Civil War. The primary focus of the course is slavery and the battle to dismantle the peculiar institution. 3 semester credit hours.

HIST 264 America Since World War II. Discusses the impact of World War II, the Cold War, the affluent society, and contemporary society. 3 semester credit hours.

HIST 267 Diplomatic History of the United States. The evolution of American foreign policy, emphasizing the domestic and international background of the U.S. expansion from the American Revolution to America's rise as a great power. 3 semester credit hours.

HIST 272 Early Islamic Middle East 500-1258. The first of a three course sequence studying the history of the Middle East. The course covers the pre-Islamic Middle East including the conflict between the Eastern Roman and Sasanian empires and focuses on the development of an Islamic civilization that spread throughout the Middle East, North Africa and into Spain under the rule of the two most important Islamic dynasties of this period, the Umayyads and the Abbasids. Relations with neighboring regions including Europe are highlighted including the crusades which began in the late eleventh century and continued in Syria/Palestine through the 13th century. 3 semester credit hours. Typically offered: Spring Term.

HIST 291 Topics. A study of various persons, events, trends, and institutions in European, American or non-Western History. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

HIST 313 Contemporary Latin America, 1898-2000. Beginning with the creation of independent nation states in Latin America, this course will survey the social processes, issues and events that have given rise to contemporary Latin America as well as the impact of Latin America on the wider world. 3 semester credit hours. Typically offered: Fall Term.

HIST 323 Constitutional History of England. The growth and change of the English constitution from late Roman times to the present. 3 semester credit hours. Typically offered: Spring Term.

HIST 362 Antebellum America, 1824-1877. This course examines the economic, political and cultural changes in the United States, culminating in the Civil War. The primary focus of the course is slavery and the battle to dismantle the peculiar institution. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 367 Diplomatic History of the United States. The evolution of American foreign policy, emphasizing the domestic and international background of the U.S. expansion from the American Revolution to America's rise as a great power. Prerequisite: Social Science or History major. 3 semester credit hours.

HIST 391 Topics. Directed readings and research to be used in discussions pertaining to specific topics in European, American or non-Western history. Prerequisite: Social Science or History major, Junior or Senior standing. 3 semester credit hours. Writing Intensive Course. *Department Consent Required.*

HIST 395 Independent Study. Designed to encourage the superior student to study in-depth and to research an area beyond the undergraduate course offerings. Prerequisite: Social Science or History major. 1-3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

HIST 397 Internship. Practical experiences in a related career field under the supervision of the History Department. Prerequisite: 3.00 GPA, Social Science or History major. 3 semester credit hours. *Department Consent Required.*

HIST 399 Senior Thesis. Senior capstone experience. Prerequisite: GBLS 101 and GBLS 102 or senior standing. 3 semester credit hours. Typically offered: Spring Term.

Humanities

HUMN 220 The Mediterranean World. Studies the ancient cultures located around the Mediterranean Sea and the contributions they made to the development of western civilizations to about 500 A.D. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" as reflected in religion, art, philosophy, and social, political, and economic institutions. IAI H9 900. 3 semester credit hours.

HUMN 230 The Baptism of Europe. Studies the development and Christianization of Europe in the Middle Ages (500-1500 A.D.). Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the theme of "person in community" through social structures (religious, political, economic) and through the interactions and/or conflicts between people and

cultures (Eastern and Western Christianity; Christianity, Judaism, Islam). 3 semester credit hours. 3 semester credit hours.

HUMN 240 Converging Hemispheres. Studies the increasingly global encounter of peoples, ideas, and cultures from the Age of Exploration (from 1400 A.D.) into the Twentieth century. Drawing upon the resources of the Catholic and Benedictine traditions, the course explores the shift in emphasis from "person in community" the values of freedom, equality, and responsibility. Examines the construction of the modern era focusing on scientific revolutions, economic transformation, religious reformations, and revolution, resistance and republicanism. 3 semester credit hours.

HUMN 250 The Contemporary World. Drawing upon the resources of the Catholic and Benedictine traditions, this course examines a variety of interpretations of the current world situation in light of the theme "person in community." Have the notions of person and community changed, or are they being changed through current political, economic, cultural and technological challenges? Must have completed over 60 credit hours. 3 semester credit hours. Writing Intensive Course.

HUMN 291 Topics in Humanities. Special topics offered by visiting lecturers and/or practitioners in the arts and humanities. Content will vary depending on the topic and instructor. 1-3 semester credit hours.

International Business

INTB 300 Introduction to International Business. This course is designed to introduce students to the importance and role of international business. Predominant themes will be culture and business opportunities. Topics include international trade, balance of payments, multinational corporations and the functional areas of international business. 3 semester credit hours. Typically offered: Fall Term.

INTB 302 International Management. Study of the dynamics involved in international business management. Explores key issues such as political, legal and labor environments, strategic planning and organizational design. Emphasis is placed on the role of managers and others in successful international operations. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

INTB 351 Global Development Issues. A study of the meaning, measurement and historical context of economic development and the issues underlying the vast differences in development between nations of the world. Topics covered include population, agriculture, industry, trade and foreign debt. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

INTB 371 International Negotiations. This course aims to introduce students to the theoretical basics of joint problem-solving negotiation, with a particular emphasis on cross-cultural negotiation. As the emphasis here is on learning by doing, students will be lead through a variety of simulations that represent a variety of negotiation settings. 3 semester credit hours. Typically offered: Periodically.

Literature

LITR 100 Introduction to Literary Analysis. Introduction to literary study and criticism. Focus on genres, techniques and development of literature. Emphasis on critical reading and writing. Introductory course for Literature majors; prerequisite for 300-level Literature courses. 3 semester credit hours. Typically offered: Spring Term.

LITR 108 Critical Reading. This course teaches students to be critical readers and thinkers. They will learn to read and accurately summarize information. They will learn to use textbooks to prepare for classroom lectures and discussions as well as prepare for taking tests. They will increase proficiency in their reading skill, improve vocabulary, and develop versatility in reading rate. They will learn different ways of reading and learning in different disciplinary contexts. 3 semester credit hours. Typically offered: Fall and Spring Terms.

LITR 210 Literature and Film. Selected literary texts and their representation on film; analysis of the relationship between the two genres, and differences between written texts and visual media. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Odd Years.

LITR 224 Literature: Short Stories in Fiction. The study of types of short fiction in historic perspective to give the student an understanding of the nature and forms of fictional literature. Prerequisite: WRIT-101 with a grade of "C" or better. IAI H3 901. 3 semester credit hours. Typically offered: Fall Term, Odd Years.

LITR 255 American Literature I. Survey of American literature from its Colonial roots, particularly the influence of the Puritans, to its flowering in New England. Counts as pre-1800. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term.

LITR 256 American Literature II. Survey of American literature since the Civil War. Emphasis on development of Realism and Naturalism in the nineteenth century, and modernism in the twentieth. Counts as post-1800. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term.

LITR 257 British Literature I. Historical survey of representative British literary texts from the Anglo-Saxon period to 1800, with attention to modes of critical reading and development of important genres. Counts as pre-1800. IAI H3 912. 3 semester credit hours. Literature Core Elective. Typically offered: Periodically.

LITR 258 British Literature II. Historical survey of representative British and Anglophone literary texts from 1800 to the present, with attention to the larger cultural context and contemporary modes of literary analysis. Counts as post-1800. IAI H3 913. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term.

LITR 263 Literature of the Early Modern Period. Selected literary and cultural texts drawn from the late sixteenth to the eighteenth centuries. Places these texts in the context of emerging modernity. Counts as pre-1800. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Odd Years.

LITR 264 Global/Postcolonial Literature and Theory. A comparative study of literature and theory concerning colonial, postcolonial, third world, and diasporic cultures and communities. The course may include such topics as education and the colonial/postcolonial condition; intellectual culture and imperialism; the politics of tourism, identity and diaspora; travel, migration, and globalization; and trauma, genocide, and historical fiction. Counts as diversity elective for majors. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Odd Years.

LITR 265 Shakespeare. Critical reading of representative comedies, tragedies, and histories. Emphasis on such issues as his dramatic art, critical response, and role in constructions of literary culture. Counts as pre-1800. IAI H3 905. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Even Years.

LITR 267 Studies in Poetry. Critical study of selected poetry, with attention to both formal and interpretive issues; theories of poetry as literary genre. Topics will vary. IAI H3 903; EGL 915. 3 semester credit hours. Literature Core & Writing Inte. Typically offered: Spring Term, Even Years.

LITR 268 Studies in Drama. Critical study of selected dramatic literature from a range of cultures and periods; theories of drama as literary genre. Topics will vary. IAI EGL 916. 3 semester credit hours. Literature Core & Writing Inte. Typically offered: Periodically.

LITR 269 Introduction to Creative Writing. Writing workshop for students; introduction to various forms of modern fiction and poetry. Students will have the opportunity to create original poetry and fiction. Applicable as Fine Arts Core Elective. 3 semester credit hours. Fine Arts Core Elective. Typically offered: Fall Term, Odd Years.

LITR 279 U.S. Multiethnic Literature. A comparative study of literature reflecting the diversity of American culture. In our exploration of just a sampling of the multiple voices of U. S. literature, we will consider these narratives within specific historical, cultural, rhetorical, and literary contexts. Counts as diversity elective for majors. IAI H3 910D; EGL 918. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term, Even Years.

LITR 280 African-American Literature. Historical and critical exploration of African-American writers' contributions to American fiction, poetry, drama, and non-fiction, from the oral tradition to the present. May include an Afrocentric approach. Counts as diversity elective for majors. 3 semester credit hours. Literature Core Elective. Typically offered: Spring Term, Even Years.

LITR 281 Gender and Literature. Introduction to gender studies as a mode of literary analysis, and to the role of literary texts in shaping gender constructions. Counts as diversity elective for majors. IAI H3 911D. 3 semester credit hours. Literature Core Elective. Typically offered: Fall Term, Odd Years.

LITR 291 Topics in Literature. Intermediate-level study of authors, themes, movements, and genres; attention to historical context. Sample topics: American Renaissance, Nineteenth-Century British Women Writers, Gothic, Science Fiction, Lyric. 3 semester credit hours. Literature Core Elective. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

LITR 307 Modern English Language. Study of traditional, structuralist, and transformational theories of grammar and language, with attention to practical applications for language instruction. Includes introduction to contemporary linguistic theory. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Spring Term.

LITR 357 The Nineteenth Century. Advanced study of nineteenth-century fiction, poetry, and/or drama. Topics may include Victorian literature, the nineteenth-century novel, and Romanticism. Counts as post-1800. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Spring Term, Odd Years.

LITR 362 Modern Literature. Examines the evolution of poetic and narrative forms since the late nineteenth century. Emphasis on major British and/or American poets and novelists; may also include translated works from other cultures. Counts as post-1800. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Spring Term, Even Years.

LITR 369 Creative Writing: Fiction. Advanced writing workshop with focus on writing and revision of fiction: includes group discussions and individual conferences. Students will produce a professional portfolio of fiction. Prerequisite: LITR 269. 3 semester credit hours. Typically offered: Spring Term, Even Years.

LITR 370 Creative Writing: Poetry. Advanced writing workshop with focus on writing and revision of poetry: includes group discussions and individual conferences. Students will produce a professional portfolio of poetry. Prerequisite: LITR 269. 3 semester credit hours. Typically offered: Spring Term, Odd Years.

LITR 385 Major Authors and Genres. Detailed study of major writers and/or literary genres. Authors to be studied may include such figures as Jane Austen, Toni Morrison, Geoffrey Chaucer, or Zora Neale Hurston; genres to be studied may include the history of drama and the rise of the novel. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Spring Term, Odd Years.

LITR 391 Advanced Topics in Literature. Advanced study of authors, themes, movements, and genres; attention to historical context. Sample topics: Literature and the Environment, Women Writers of Color, Satire, focused study of major author. Prerequisite: LITR 100. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

LITR 395 Independent Study. Students with interest in independent study of topics not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval based on academic appropriateness and availability of resources. Prerequisite: LITR 100 and junior or senior standing. 3 semester credit hours. *Department Consent Required. Course Repeatable. Maximum number of units allowed 99.*

Management and Organizational Behavior

MGT 100 Introduction to Business Studies. This course is an introductory course for adult students pursuing an Associates Degree. Topics include program planning, group interaction, written and oral communication skills, research skills, personality inventory, and other items. 1 semester credit hour.

MGT 150 Business Statistics I. Basic course in statistical technique; includes measures of central tendency, variability, probability theory, sampling, estimation, and hypothesis testing. IAI M1 902; BUS 901. Prerequisite: MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

MGT 205 Introduction to Sports Culture in America. This course introduces students to the business side of sports in America. It provides an overview for the opportunities in the sports and leisure industry. The course emphasizes critical thinking skills. Topics covered include ethics, social concerns and the economic impact of sports and leisure upon America. 3 semester credit hours. 3 semester credit hours.

MGT 210 Management. An overview of the fundamentals of management and leadership and their impact on the modern corporation. The course is a combination of theory and practical application, offering the student an opportunity to learn about the nature of management, leadership, and cultural diversity issues. Prerequisite: sophomore standing 3 semester credit hours. Typically offered: Fall and Spring Terms. 3 semester credit hours. Typically offered: Fall and Spring Terms.

MGT 217 Group Dynamics and Learning Strategies. This course provides an overview of organizational structure, group dynamics, and learning strategies. Prerequisite: Admission to the Adult Bachelor of Arts Learning Team or Online Program. 3 semester credit hours. 3 semester credit hours.

MGT 220 Entrepreneurship. Application of business principles to planning, organizing and operating the entrepreneurial enterprise. 3 semester credit hours. 3 semester credit hours.

MGT 235 Business Law I. Introduction to the role of the legal system in our society with an emphasis on the law of contracts, sales, and agency. 3 semester credit hours. 3 semester credit hours.

MGT 237 Business Communications. Theory and practice of communication within and between business organizations of all types. Focus on the training for and development of entry-level skills in communication and its related technology. 1-3 semester credit hours. Writing Intensive Course. Department Consent Required. 1-3 semester credit hours. Writing Intensive Course. *Department Consent Required.*

MGT 251 Business Statistics II. Covers: Regression and correlation, analysis of variance, and nonparametric statistics. Prerequisite: MGT 150. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

MGT 297 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Typically offered: Periodically. Department Consent Required. Course Repeatable. Maximum number of units allowed 12. 2-6 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

MGT 300 Management. Fundamental principles and practices of the corporate enterprise are utilized to consider planning, organizing, implementing and controlling in management. Prerequisite:

Sophomore standing 3 semester credit hours. Business Core and Writing Intensive Course. Typically offered: Fall and Spring Terms. 3 semester credit hours. Business Core & Writing Intens. Typically offered: Fall and Spring Terms.

MGT 301 Entrepreneurship. Application of business principles to planning, organizing and operating the entrepreneurial enterprise. 3 semester credit hours. 3 semester credit hours.

MGT 302 International Management. Study of the dynamics involved in international business management. Explores key issues such as political, legal and labor environments, strategic planning and organizational design. Emphasis is placed on the role of managers and others in successful international operations. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

MGT 303 Management Labor Relations. The course focuses on the evolution of employer-employee relations in union and non-union organizations. The emphasis is on union, governmental and workplace policies and practices, history, functions, forecasted changes relating to labor and management in both public and private sector. 3 semester credit hours. 3 semester credit hours.

MGT 305 Introduction to Sports Culture in America. This course introduces students to the business side of sports in America. It provides an overview for the opportunities in the sports and leisure industry. The course emphasizes critical thinking skills. Topics covered include ethics, social concerns and the economic impact of sports and leisure upon America. 3 semester credit hours. 3 semester credit hours.

MGT 320 Organizational Behavior. Overview of organizational structures and group dynamics. Examines job satisfaction, motivation, performance evaluation, decision-making and goal setting. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

MGT 323 Group Processes. Provides the basic theory necessary to understand the components of the group process. The course gives the opportunity to participate in functioning groups for decision making and to practice newly developed skills in class groups. 3 semester credit hours. 3 semester credit hours.

MGT 330 Human Resource Management. Relationship of internal and external labor market concepts to organizational manpower planning. 3 semester credit hours. 3 semester credit hours.

MGT 333 Operations Management. A study of theory, principles and computational procedures as applied to such areas as strategic planning, forecasting, capacity planning, productivity and quality control. 3 semester credit hours. 3 semester credit hours.

MGT 347 Project Management. The art and science of project management as applied to a variety of business and technology settings. Discusses how to initiate, plan, execute and control, and close projects, within budget and on schedule. Includes management of project scope, time, cost, quality, human resources, communications, and risks. A project planning software tool is utilized, usually MS

Project. Prerequisite: Junior or Senior Standing. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

MGT 380 Strategic Management. Management capstone course enabling business students to use the disciplines and techniques learned throughout their program of study. Case studies stress the importance of basing management decisions on a strategic view of organizations. Prerequisite: Senior standing, FINA 300, MGT 300 MKTG 300. 3 semester credit hours. Typically offered: Fall and Spring Terms. 3 semester credit hours. Typically offered: Fall and Spring Terms.

MGT 391 Topics. Specially designed courses in various business topics to supplement the business curriculum. Prerequisite: Varies based upon the specific topic being explored. 1-3 semester credit hours. Course Repeatable. Maximum number of units allowed 99. 1-3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

MGT 397 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Department Consent Required. 2-6 semester credit hours. *Department Consent Required.*

Marketing

MKTG 297 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Typically offered: Periodically. Department Consent Required. Course Repeatable. Maximum number of units allowed 12. 2-6 semester credit hours. Typically offered: Periodically. *Department Consent Required. Course Repeatable. Maximum number of units allowed 12.*

MKTG 300 Marketing. An investigation of the basic principles of marketing, with an emphasis on the practical application of those principles to formulate marketing plans that will deliver value to customers and meet the goals of the organization. Prerequisite: Sophomore standing. 3 semester credit hours. Typically offered: Fall and Spring Terms. 3 semester credit hours. Typically offered: Fall and Spring Terms.

MKTG 305 Sports Marketing. A case study approach will be used to explore and analyze situations that pertain to sports marketing. Prerequisite: MKTG 300. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

MKTG 310 Consumer Behavior. This course examines consumers' needs, wants, and market behavior as a foundation for the formulation of effective marketing strategies by organizations. The course also provides an understanding of consumer behavior that can be used by all students to enhance their ability to consume wisely and to enable them to appreciate the critical role consumers play in our economic system. Prerequisite: MKTG 300. 3 semester credit hours. Business Core Elective. Typically offered: Spring Term. 3 semester credit hours. Business Core Elective. Typically offered: Spring Term.

MKTG 330 Promotional Strategy. An integrated marketing communications (IMC) approach to the study of the strategies organizations use to promote their products and services. The course goes beyond the traditional study of advertising, sales promotion, personal selling, direct marketing, and

public relations to show how all four elements of the marketing mix – product, price, promotion, and distribution – must blend together to present a unified message to customers. Prerequisite: MKTG 300 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

MKTG 360 Marketing Research. This course presents the principles of marketing research primarily from the perspective of the users of that research, with a focus on the practical and applied aspects of the subject. Emphasis will be placed on how marketing researchers apply the various concepts and techniques, as well as how business decision makers implement the findings to improve marketing practices. Topics covered will include research design, sampling techniques, questionnaire design, measurement and scaling, data collection and analysis, and report preparation. Prerequisite: MKTG 300, MGT 150, Junior standing. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

MKTG 380 Marketing Strategy. A comprehensive study of major topics in strategic marketing, the components of a marketing plan, and financial analysis for marketing management. Case studies are used as the approach for utilizing marketing concepts and practices to analyze marketing problems in a wide variety of industry settings and to develop marketing strategies based on those analyses. Prerequisite: MKTG 300, Senior standing. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

MKTG 397 Internship. Practical experiences in business related fields under the supervision of the program coordinator. 2-6 semester credit hours. Department Consent Required. 2-6 semester credit hours. *Department Consent Required.*

Mathematics

MATH 104 Advanced Business Mathematics. This course is designed to provide the student with a good understanding of proper problem-solving techniques; simplifying algebraic expressions; solving first-degree equations; the properties of lines, graphs and functions; modeling and analysis of functions; and solving finance problems. The TI-83 Plus graphing calculator is used throughout the course. Prerequisite: Admission to the Adult Learning Team or Online Program. 3 semester credit hours.

MATH 105 Finite Mathematics. A survey of algebra, functions, graphs, and linear equations as applied to problems in economics and business. Topics include mathematics of finance, linear, polynomial, exponential, and logarithmic functions. Credit will not be granted for both MATH 105 or MATH 110. Prerequisite: Placement exam or at least a "C" or better in MATH 95. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

MATH 108 Quantitative Reasoning. Develops conceptual understanding and computational skills in unit analysis, uses of percentages, and dealing with quantities and their magnitudes. Includes formulas of finance for simple interest, compound interest and loan payments; functions and their graphs; linear equations; exponential growth and decay; principles of counting; fundamentals of probability; and estimation and approximation techniques to judge the reasonableness of answers. Also includes representing and analyzing data using statistical tools such as histograms; measures of central tendency; variance and standard deviation; linear regression and scatter plots; normal

distributions; and margin of error and confidence intervals. IAI M1 904. Prerequisite: Placement exam or at least a "C" or better in MATH 095. 3 semester credit hours. Typically offered: Fall and Spring Terms.

MATH 110 College Algebra. Topics include equations, inequalities, functions, graphs, polynomial and rational functions, exponential & logarithmic functions, equations, and systems of equations and inequalities. Credit will not be granted for both MATH 105 and MATH 110. Prerequisite: Placement exam or at least a "C" or better in MATH 095. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

MATH 111 College Trigonometry. General study of the trigonometric functions and their graphs, trig identities, and equations, inverse trig functions, applications of trigonometry, vectors, polar coordinates, and parametric equations. IAI MTM 901. Prerequisite: Placement exam or at least a "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall and Summer Terms.

MATH 112 Mathematics for Elementary Teachers I. This course explores the mathematical content of elementary school mathematics from the perspective of future elementary school teachers. Topics include mathematical thinking, problem solving, sets, representations of functions, numeration, standard and non-standard arithmetic algorithms, mental arithmetic and estimation, number theory, integers, fractions and rational numbers, decimals, and real numbers. Graphing calculators and manipulatives are used throughout the course. This course is required for elementary education majors. Prerequisite: "C" or better in MATH 095 or placement exam. 4 semester credit hours. Math Comp Sci Core Elect. Typically offered: Fall Term.

MATH 115 Business Calculus. A survey of mathematical techniques used in the managerial, social and life sciences. Topics include systems of linear equations and matrices, linear programming, differential calculus, and applications of the derivative. Prerequisite: "C" or better in MATH 110 or MATH 105, or placement exam. 3 semester credit hours. Math Comp Sci Core Elect. Typically offered: Fall, Spring, and Summer Terms.

MATH 150 Introduction to Statistics. Basic course in statistical techniques which includes measures of central tendency, probability, sampling, estimation and hypothesis testing. For non-business majors. IAI M1 902. Prerequisite: "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

MATH 190 Mathematics Topics. 1-3 semester credit hours.

MATH 210 Calculus for Physical Sciences I. Topics include differentiation, and antidifferentiation of algebraic, trigonometric and transcendental function, the fundamental theorem of calculus, applied problems on maxima and minima, plane analytic geometry, and simple differential equations. The computer algebra system Maple will be used to illustrate calculus concepts. Credit will not be granted for both MATH 200 and MATH 210. IAI M1 900-1; EGR 901; MTH 901. Prerequisite: Placement exam or "B" or better in MATH 111, and coregistration in MATH 207. 4 semester credit hours. Math Comp Sci Core Elect. Typically offered: Fall, Spring, and Summer Terms.

MATH 211 Calculus for Physical Sciences II. Topics include applications of the definite integral, methods of integration, sequences and series and numeric integration. The computer algebra system Maple will be used to illustrate calculus concepts. IAI M1 900-2; EGR 902; MTH 902. Prerequisite: "C" or better in MATH 200, MATH 205, MATH 210, MATH 220. 4 semester credit hours. Math Comp Sci Core Elect. Typically offered: Fall, Spring, and Summer Terms.

MATH 212 Calculus III. Topics include solid analytic geometry and vectors, partial differentiation, multiple integrals and vector calculus. The computer algebra system Maple will be used to illustrate calculus concepts. IAI M1 900-3; EGR 903; MTH 903. Prerequisite: "C" or better in MATH 206, MATH 211, MATH 221 or MATH 224. 4 semester credit hours. Math Comp Sci Core Elect. Typically offered: Fall and Spring Terms.

MATH 222 Mathematics for Elementary Teachers II. This course is a continuation of MATH 112. This course explores additional mathematical content of elementary school mathematics from the perspective of future elementary school teachers. Topics include proportional reasoning, percents, basic concepts of geometry, two- and three-dimensional geometric figures, transformational geometry, coordinate geometry, symmetry, tessellations, similarity, and direct and indirect measurement. Graphing calculators, manipulatives, and, dynamic geometry software are used throughout the course. This course is required for elementary education majors. MATH 112 and MATH 222 together satisfy IAI M1 903. Prerequisite: "C" or better in MATH 112. 4 semester credit hours. Math Comp Sci Core Elect. Typically offered: Spring Term.

MATH 256 Differential Equations. Includes an introduction to ordinary differential equations with an emphasis on linear equations and techniques to solve them, applied problems in various fields, the Laplace transform, power series solutions, systems of ODEs, and a brief introduction to difference equations and chaos theory. Prerequisite: "C" or better in MATH 212. 3 semester credit hours. Typically offered: Spring Term.

MATH 260 Differential Equations. Includes an introduction to 1st and 2nd order ordinary differential equations with an emphasis on linear equations and techniques to solve them, applied problems in various fields, the Laplace transform, a brief introduction to chaos theory, systems of 1st order linear equations and power series solutions 2nd order linear ODEs. IAI EGR 904; MTH 912. Prerequisite: Credit or coregistration in MATH 212. 4 semester credit hours. Writing Intensive Course. Typically offered: Spring Term.

MATH 395 Independent Study. Designed to encourage superior students to continue the study of mathematics beyond the scope of undergraduate course offerings, through guided independent study. 1-3 semester credit hours. *Department Consent Required.*

MATH 85 Developmental Mathematics. Intended for the student who is not adequately prepared to pursue college-level math courses. Topics to be covered include operations with real numbers, using basic laws of algebra and fundamentals of geometry. 3 semester credit hours.

MATH 95 Intermediate Algebra. Topics include real numbers, linear equations, exponent, polynomials, rational expressions, radicals, and quadratic equations. Prerequisite: Placement exam. 3 semester credit hours. Typically offered: Fall and Spring Terms.

Music

MUSI 104 Music Appreciation: Medieval to Contemporary. This course explores the history of Western Classical Music by focusing on each of its eras. It also offers access to various ways to listen to music and how to take full advantage of concert attendance. Provides detailed explanations and sound demonstrations of the basic musical elements and performing media. Periodically. IAI F1 900. 3 semester credit hours. Music Core Elective. Typically offered: Periodically.

Natural Sciences

NTSC 102 Physical Geography with Lab. An approach to the physical environment including landforms, soil, vegetation, weather, survey of weather climatic patterns, and environmental conservation with corresponding laboratory and outdoor activities. Prerequisites: none. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Physical Science Core Elective. Typically offered: Spring Term.

NTSC 103 Physical Science I with Lab. Introduction to the basic principles of physics and astronomy. Designed to give the non-science major and the education major an appreciation of the physical universe as well as some of the basic physical principles that govern the universe. A historical perspective of contemporary science is also included. Prerequisites: MATH 095 or higher; math placement or permission of Division Chair. (three lecture hours and one three-hour laboratory weekly). ADULT (EVENING) PROGRAM ONLY. 4 semester credit hours. Physical Science Core Elective.

NTSC 104 Physical Science II. This course provides an introduction to the basic principles of chemistry and earth sciences. It is designed to give the non-science major an appreciation of the physical universe as well as some of the basic chemical principles which aid in our understanding of the earth's environment. A historical perspective of contemporary science is also included. Prerequisites: MATH 095 or higher; math placement or permission of Division Chair. (three lecture hours weekly). 3 semester credit hours. Physical Science Core Elective. Typically offered: Spring Term.

NTSC 105 Introduction to Forensic Science. An overview of the techniques used in scientific crime fighting. Prerequisites: one year each of high school biology and chemistry or permission of Division Chair. (three lecture hours weekly). 3 semester credit hours. Typically offered: Spring Term.

Nursing and Health

NRHL 200 Nursing Transitions. A bridge course that introduces the philosophy and concepts of baccalaureate nursing. Emphasis is placed on the components of professional nursing practice and supporting theories. 3 semester credit hours. 3 semester credit hours.

NRHL 213 Health Aspects of Aging. Focuses upon the normal aging process in American Society including biological, psychological and health aspects. Emphasis is placed on health services, health maintenance, and contemporary issues with respect to the elderly population. 3 semester credit hours. Life Science Core Elective. 3 semester credit hours. Life Science Core Elective.

NRHL 250 Statistics. Basic course in statistical techniques which includes measures of central tendency, probability, sampling, estimation and hypothesis testing. For nursing majors. 3 semester credit hours. 3 semester credit hours.

NRHL 290 Health Assessment. Presents the theory and process of health assessment. Focuses on history, physical examination, screening tests, and resultant nursing diagnoses. Clinical Lab provides for application of skills. 3 semester credit hours. 3 semester credit hours.

NRHL 295 Research. Explores the research process as it applies to nursing and health care. Emphasis is placed on analysis and critique of research studies. 3 semester credit hours. 3 semester credit hours.

NRHL 300 Transforming Care. Explores the concepts of quality, safety, and informatics appropriate to providing care within health care organizations. 3 semester credit hours. 3 semester credit hours.

NRHL 301 Family Health Nursing. Provides students with a foundation in the concepts/theories of family health care nursing. Selected clinical experiences emphasize application of family nursing principles. 4 semester credit hours. Writing Intensive Course. 4 semester credit hours. Writing Intensive Course.

NRHL 311 Community Health Nursing. Explores the physical, social, economic and environmental factors which affect the health of a community. Selected field experiences emphasize applying nursing process to population groups and communities. 3 semester credit hours. 3 semester credit hours.

NRHL 320 Health Systems. Overview of the history, basic structures and operations of public health and health care delivery systems. 3 semester credit hours. 3 semester credit hours.

NRHL 378 Leadership and Management. Introduces the functions of management within a rapidly changing health care environment. Emphasis is on current issues impacting leadership and management within nursing practice. 3 semester credit hours. 3 semester credit hours. Typically offered: Spring Term.

NRHL 395 Nursing Elective. Guides independent study in theoretical or clinical aspects of nursing. Prerequisite: NRHL 378 and WRIT 102. 1-3 semester credit hours. Department Consent Required. 1-3 semester credit hours. Typically offered: Spring Term. *Department Consent Required.*

Nutrition

NUTR 100 Impact of Nutrition. For non-majors. An introduction to nutrients; cultural, socioeconomic, and other influences on nutrition intake; impact of nutrition on health status; and issues of hunger and malnutrition. (NOTE: Cannot receive credit for NUTR 100, 200, and 201). IAI L1 904. Life Science Core Elective. 3 semester credit hours. Life Science Core Elective. Typically offered: Fall, Spring, and Summer Terms.

Philosophy

PHIL 110 Introduction to Philosophy. An introduction to some of the main philosophical problems of traditional Western thought, including ethics, metaphysics, epistemology and the philosophy of religion. IAI H4 900. 3 semester credit hours. Philosophy Core Elective.

PHIL 245 General Ethics. Investigation of ethical questions pertaining to health and medicine. Basic ethical theory is examined as it applies to selected issues and cases. Recommended for majors in the health sciences and related fields. Each semester. 3 semester credit hours. Philosophy Core Elective. *Course Repeatable. Maximum number of units allowed 3.*

PHIL 249 General Ethics for the Professional. Investigation of ethical concepts and theories and an analysis of the norms of ethical decision and the relationship of these to professionals in all fields. It provides a solid foundation in moral theory, recast in light of postmodern critiques of moral philosophy, together with diverse applications to help students understand the philosophical complexity of ethical challenges that arise for professionals in all types of work and can help students from all disciplines better understand how to resolve ethical challenges in the modern workplace. 3 semester credit hours. Philosophy Core Elective. Typically offered: Spring Term.

PHIL 250 Business Ethics. Introduction to moral philosophy and its interrelationships with economic theory and business. 3 semester credit hours. Philosophy Core Elective. Typically offered: Spring Term.

Physical Education

PHED 257 Wellness. Concepts and applications of cardiovascular fitness, nutrition and weight management, stress management life-style management, and substance abuse. Emphasis is on the interactive nature of these health-related components, on being an informed consumer, and on the development and implementation of a personal wellness program. Satisfies teaching certification Health/Physical Education requirement. 2 semester credit hours.

Physics

PHYS 102 Basic Physics with Lab. A one-semester survey course for students requiring a conceptual knowledge of the physical laws of nature. Topics will be selected from mechanics, thermodynamics, fluids, kinetic theory and modern physics. Prerequisite: MATH-095. (Three lecture hours and one two-hour laboratory weekly). 4 semester credit hours.

PHYS 112 College Physics I with lab. College Physics I is an algebra-based introduction to the principles of physics and how they relate to everyday life. The topics covered include vectors, statics, fluid mechanics and thermodynamics. Laboratory investigations designed to enhance lecture discussions and understanding. Prerequisite: MATH 110 or higher; math placement or permission of Division Chair. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Physical Science Core Elective. Typically offered: Fall Term.

PHYS 117 College Physics II with Lab. A continuation of PHY 112, topics covered are wave motion, sound, acoustics, light, optics; electricity and magnetism, simple circuits, and an introduction to

quantum mechanics. Laboratory investigations designed to enhance lecture discussions and understanding. Prerequisites: PHYS 112. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Physical Science Core Elective. Typically offered: Spring Term.

PHYS 200 University Physics I with Lab. University Physics I is a calculus-based introductory physics course. Topics covered include vectors, statics, dynamics, fluid mechanics, vibrations, and thermodynamics, with corresponding laboratory activities. Laboratory investigations designed to enhance lecture discussions and understanding. Prerequisite or corequisite: MATH 210. (three lecture hours and one three-hour laboratory session weekly). 4 semester credit hours. Physical Science Core Elective. Typically offered: Periodically.

PHYS 204 University Physics II with Lab. A continuation of PHY 200, topics covered include wave motion; acoustics; optics; electricity and magnetism; and an introduction to quantum mechanics. Laboratory investigations designed to enhance lecture discussions and understanding. Prerequisites: PHYS 200. (three lecture hours and one three-hour lab weekly). 4 semester credit hours. Typically offered: Periodically.

Political Science

PLSC 102 American Government. Satisfies both the U.S. and Il., Constitution requirements for teacher certification. IAI S5 900. Political Science majors and minors should take PLSC 103, Introduction to the American Political System. Credit will not be granted for both PLSC 102 and PLSC 103. 3 semester credit hours. Political Science Core Elect.

PLSC 105 Law and Politics. An analysis of law, justice, rights, court procedures, and legislation. The development of various concepts of law and individual and group rights. Credit will not be granted for both PLSC 105 and PLSC 205. 3 semester credit hours. Political Science Core Elect.

PLSC 201 State and Local Government. The inter-relationships between national, state, county, and local governments. (Satisfies the Illinois Constitution requirement for teacher certification.) IAI S5 902. 3 semester credit hours.

PLSC 210 Introduction to International Relations. Analysis of the processes of interaction among nations and groups of nations within the international political system. IAI S5 904N. 3 semester credit hours. Political Science Core Elect.

PLSC 230 US Constitutional Law I. A study of the Constitution as a living and changing document underlying our entire system of government; the role played by the judiciary in developing Constitutional law. Prerequisite: PLSC 103, 105, 205, or 210. 3 semester credit hours.

PLSC 251 Introduction to Public Policy. This course serves as an introduction to the policy-making process, covering the various institutions, actors, and procedures involved in getting an idea for solving a policy problem adopted into law and implemented. The themes discussed may be relevant at the local, state, or national levels, and may include, but not limited to, such matters as health, education, environmental, and fiscal policy issues. Prerequisite: PLSC 103, 105, 205, or 210. 3 semester credit hours.

PLSC 255 Environmental Politics. The politics of environmental protection and regulation in the United States and selected other states. Prerequisite: PLSC 103, 105, 205, or 210, or Environmental Science Major. 3 semester credit hours.

PLSC 291 Topics. A study of selected matter in the discipline of political science. Recent topics have included Politics of Western Europe, Politics of Soviet Union. Prospective topics may include Politics on Latin America, Politics of Southeast Asia, Politics of Sub-Sahara Africa, and Feminist Politics. Prerequisite: PLSC 103, 105, 205, or 210. 1-3 semester credit hours. Typically offered: Fall Term. *Course Repeatable. Maximum number of units allowed 99.*

PLSC 391 Topics. A study of selected matter in the discipline of political science. Recent topics have included Politics of Western Europe, Politics of Soviet Union. Prospective topics may include Politics of Latin America, Politics of Southeast Asia, Politics of Sub-Saharan Africa, US-Asian Relations, Politics of Policy change in America. Prerequisite: PLSC 103, 105, 205, or 210. 3 semester credit hours. *Course Repeatable. Maximum number of units allowed 99.*

Psychology

PSYC 100 Survey of Psychology. Overview of the field; principles and general methodology; concepts, theories and research, applicability to modern living. IAI S6 900. 3 semester credit hours. Psychology Core Elective. Typically offered: Fall and Spring Terms. 3 semester credit hours. Psychology Core Elective. Typically offered: Fall and Spring Terms.

PSYC 150 Introduction to Statistics. Basic course in statistical techniques which includes measures of central tendency, probability, sampling, estimation and hypothesis testing. For non-business majors. IAI M1 902. Prerequisite: "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

PSYC 200 Childhood and Adolescence. Behavioral and social analysis of human development from birth through adolescence. IAI S6 904. Prerequisite: PSYC 100. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

PSYC 201 Growth and Development. A study of the physical, psychosocial, and cognitive growth and development characteristics of the individual across the life span from before birth to death. Some focus is given to the common problems of each stage of development. Cannot earn credit in PSYC 201 and PSYC 200 or PSYC 202. 3 semester credit hours.

PSYC 202 Adulthood and Aging. Biopsychological, psychosexual and social cognitive development from young adulthood through aging, to dying and death. IAI S6 905. Prerequisite: PSYC 100. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

PSYC 204 Survey of Exceptional Children. Discussion of atypical development: characteristics of persons labeled as having mental retardation, learning disabilities, behavioral disabilities, sensory deficits, speech disorders and health/physical challenges. Diagnosis, referral, educational strategies and legal implications are reviewed. Cross-listed as EDUC 204/PSYC 204. IAI ECE 913; IAI SED 904.

3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

PSYC 210 Social Psychology. How social influences affect the individual and group. Attitudes, attribution and prejudice. IAI S8 900. PSYC 210 and SOCL 210 are cross-listed. 3 semester credit hours. Psychology/Sociology Core Elective. Typically offered: Fall and Spring Terms. 3 semester credit hours. Psychology/Sociology Core Elec. Typically offered: Fall and Spring Terms.

PSYC 220 Personality. Theories of personality; process and analysis of personality development and adjustment and discussion of the influence of theories on the practice of psychotherapy. Prerequisite: PSYC 100. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

PSYC 241 Educational Psychology. Survey of theories of classroom learning processes including human growth and development, evaluation, the exceptional child and the disadvantaged child. Emphasis also on the developmental characteristics and nature and needs of the early adolescent. Cross-referenced as EDUC241/PSYC 241. IAI SED 902. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

PSYC 245 Alcohol Problems and Alcoholism. Introductory course regarding the effects of alcoholism on the individual, family and society. Examines concerns related to the identification, treatment and prevention of alcoholism in the United States. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

PSYC 250 Basic and Applied Statistics. Acquaints students with descriptive statistical techniques (including measures of central tendency and variability, correlation, regression and large and small sample estimation) as well as inferential statistical procedures (t, z and ANOVA designs, nonparametric tests and multiple regression). Focus will be on how these statistical procedures can be directly applied to real-life situations. Prerequisite: MATH 105, MATH 108 or MATH 110. 3 semester credit hours. Typically offered: Spring Term.

PSYC 251 Statistics II. ANOVA designs, correlation, regression, non-parametric tests, survey and experimental research techniques, social and behavioral measurements and multivariate analysis. Prerequisite: PSYC 150 or SOCL 150 or CJUS 150. Fee: \$35 3 semester credit hours.

PSYC 291 Selected Topics. Relevant to the needs and interests of the psychology major. 3 semester credit hours. Typically offered: Periodically. Course Repeatable. Maximum number of units allowed 99. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

PSYC 292 Psychology of Horror Films. Carl Jung's archetypal theory will be applied to horror films (from silent to contemporary) to better understand why people are drawn to this genre. Summer. Prerequisite: PSYC 100. 3 semester credit hours.

PSYC 300 Abnormal Psychology. Dynamics of personality disorders, etiology, diagnosis, treatment and prognosis in neurotic and psychotic behavioral disorders. Discussion of case studies.

Prerequisite: PSYC 100 and Junior/Senior status. 3 semester credit hours. Typically offered: Fall and Spring Terms. 3 semester credit hours. Typically offered: Fall and Spring Terms.

PSYC 302 Psychotherapy. Survey of theories and techniques of individual and group psychotherapies. Concepts and methods of evaluating therapeutic interventions. Prerequisite: PSYC 300. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

PSYC 310 Social, Psychological and Cultural Aspects of Aging. This course examines various psychological and sociological aspects which impact the aging process. An analysis of the individual and society, changes in social roles and status, intergenerational relationships, sociocultural differences, and intrapsychic dynamics will be explored. 3 semester credit hours. Psychology Core Elective. 3 semester credit hours. Psychology Core Elective. Typically offered: Fall Term.

PSYC 314 Learning and Cognition. Lecture course on principles, theories, concepts and experimental literature in learning and cognition, with emphasis on human learning in educational settings. Prerequisite: PSYC 100, PSYC 251. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

PSYC 315 Learning and Cognition Lab. Utilizes a series of computer simulation / experimental techniques to illustrate recall difference in attention, learning and memory. Lab reports in APA Style are required. Prerequisite: Coregistered in PSYC 314. 1 semester credit hour. Typically offered: Periodically. 1 semester credit hour. Typically offered: Periodically.

PSYC 316 Sensation and Perception. Lecture analysis of the role of the senses in appreciating the external world; mechanisms of sensation and perception; introduction to psychophysical measurement of thresholds and signal detection theory. Prerequisite: PSYC 100, PSYC 251. 3 semester credit hours. Typically offered: Periodically. 3 semester credit hours. Typically offered: Periodically.

PSYC 317 Sensation and Perception Lab. Utilizes a series of computer simulation / experimental techniques to illustrate how we perceive information as a function of the senses, threshold detection and other measures are employed. Lab reports in APA Style are required. Prerequisite: Co-registration in PSYC 316. 1 semester credit hour. Typically offered: Periodically. 1 semester credit hour. Typically offered: Periodically.

PSYC 318 Physiological Psychology. Lecture relating neurophysiological correlates of human and animal behavior, emphasizing motivation, emotion, learning and memory processes. Prerequisite: PSYC 100 and Junior or Senior standing. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

PSYC 319 Physiological Psychology Lab. Utilizes a series of computer simulation / experimental techniques to illustrate important physiological mechanisms(e.g., visual and auditory processing). Lab reports in APA Style are required. Prerequisite: Co-registration in PSYC 318. 1 semester credit hour. 1 semester credit hour.

PSYC 320 Organizational Behavior. Overview of organizational structures and group dynamics. Examines job satisfaction, motivation, performance evaluation, decision-making and goal setting. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

PSYC 351 Research Methods in the Social Sciences. An analysis of various theoretical approaches to the study of social sciences as well as discussion and completion of the first two chapters of an original research design. Prerequisite: PSYC 251 or SOCL 251 or CJUS 251. Fee: \$35. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms.

PSYC 356 Clinical Practicum/Lab. Focus is on teaching interpersonal and primary-level skills of empathy, listening, and interviewing to the introductory-level helping professional. Prerequisite: Junior or Senior in PSYC/SOCL program. 4 semester credit hours. Typically offered: Fall and Spring Terms. 4 semester credit hours. Typically offered: Fall and Spring Terms.

PSYC 358 Group Dynamics Lab. A process-experimental course in how to conduct training in interpersonal skills and how to engage in organizational development activities. Weekend format only. 4 semester credit hours. Typically offered: Periodically. 4 semester credit hours. Typically offered: Periodically.

PSYC 371 Death and Dying. Dynamics of the grief process, the care of the terminally ill and the needs of survivors in the sociological and psychological context of death. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

PSYC 373 Group Processes. Introduces theory and components of group process. Opportunities to participate in functioning groups for decision making and practicing of newly developed skills. Prerequisite: SOCL 356. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

PSYC 391 Topics. Relevant topics according to the needs and interests of psychology majors. 3 semester credit hours. Typically offered: Periodically. Course Repeatable. Maximum number of units allowed 99. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

PSYC 395 Senior Thesis. Completion of an original research project under faculty supervision, involving either an original survey design, case study, or experimental analysis. Prerequisite: PSYC 351 or SOCL 351 or CJUS 351. 3 semester credit hours. Department Consent Required. 3 semester credit hours. *Department Consent Required.*

PSYC 397 Psychology Field Placement. Supervised instruction in an on- or off-campus setting related to student's interest in psychology. Prerequisite: PSYC 356, and a G.P.A. of 2.5 or better, Consent of department chair and field placement director prior to the 10th week of the semester preceding the field placement. 3-6 semester credit hours. Typically offered: Fall and Spring Terms. Department Consent Required. Course Repeatable. Maximum number of units allowed 6. 3-6 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required. Course Repeatable. Maximum number of units allowed 6.*

Religious Studies

RELS 130 Abrahamic Traditions. An introduction to the three western "Abrahamic" religions, Judaism, Christianity, and Islam, and their interactions. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically. 3 semester credit hours. Religious Studies Core Elect. Typically offered: Periodically.

RELS 140 World Religions. An introduction to the religious teachings and practices of the major monotheistic and polytheistic religions of the world and their cultural impact. 3 semester credit hours. Religious Studies Core Elect.

RELS 150 Introduction to the Bible I. A close reading of selections from the Christian Bible which examines historical background, literary composition, and general content of the books of the Hebrew Bible ("Old" Testament) and the New Testament. 3 semester credit hours. Religious Studies Core Elect. Typically offered: Periodically.

RELS 155 New Testament. A reading of the New Testament designed to treat the historical background, literary composition, and theological meaning of the text. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Periodically. 3 semester credit hours. Religious Studies Core Elect. Typically offered: Periodically.

RELS 230 Judaism. This course will introduce students to the practices, beliefs, literature, history, and diversity of Jews and Judaism, as well as to Jewish-Christian and Jewish-Muslim dialogue. Periodically. 3 semester hours. Religious Studies Core Elective. 3 semester credit hours. Religious Studies Core Elect. Typically offered: Spring Term.

Sociology

SOCL 100 Principles of Sociology. Fundamental concepts in the scientific study of human society, culture and personality, with special study of the social organization of groups and institutions. IAI S7 900. 3 semester credit hours. Sociology Core Elective. Typically offered: Fall, Spring, and Summer Terms. 3 semester credit hours. Sociology Core Elective. Typically offered: Fall, Spring, and Summer Terms.

SOCL 150 Introduction to Statistics. Basic course in statistical techniques which includes measures of central tendency, probability, sampling, estimation and hypothesis testing. For non-business majors. IAI M1 902. Prerequisite: "C" or better in MATH 105 or MATH 110. 3 semester credit hours. Typically offered: Fall, Spring, and Summer Terms.

SOCL 205 Racial and Ethnic Groups. The nature of prejudice. Studies of ethnic relations in America and other societies. IAI S7 903D. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

SOCL 210 Social Psychology. How social influences affect the individual and group. Attitudes, attribution and prejudice. IAI S8 900. PSYC 210 and SOCL 210 are cross-listed. 3 semester credit hours. Psychology/Sociology Core Elective. Typically offered: Fall and Spring Terms. 3 semester credit hours. Psychology/Sociology Core Elec. Typically offered: Fall and Spring Terms.

SOCL 220 Community Studies. Examination of selected works on urban, suburban, and rural communities; their social structures, institutions, and patterns of human relationships. Human Ecology, change, and future projections. 3 semester credit hours.

SOCL 234 Sociology of Sport. Examines social and cultural factors affecting organized sport, including gender, race, the role of money and media coverage in athletics, and the importance of athletics to small communities. 3 semester credit hours. 3 semester credit hours.

SOCL 235 Sociology of Popular Culture. Studies the role of popular culture in communicating ideas about society, including deviance, gender, social class, and race. Examples that will be studied include films, tattoos and body piercing, and myths, legends, and popular fiction. 3 semester credit hours. 3 semester credit hours.

SOCL 240 Social Problems. Effects of social change, disorganization and value conflict on family life, mental health, ethnic relations, crime and delinquency, related topics. IAI S7 901. Prerequisite: SOCL 100. 3 semester credit hours. Typically offered: Spring Term. 3 semester credit hours. Typically offered: Spring Term.

SOCL 245 Alcohol Problems and Alcoholism. Introductory course regarding the effects of alcoholism on the individual, family and society. Examines concerns related to the identification, treatment and prevention of alcoholism in the United States. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

SOCL 251 Statistics II. ANOVA designs, correlation, regression, non-parametric tests, survey and experimental research techniques, social and behavioral measurements and multivariate analysis. Prerequisite: PSYC 150 or SOCL 150 or CJUS 150. Fee: \$35 3 semester credit hours.

SOCL 260 Introduction to Criminal Justice. Examination of the criminal justice system: police, courts and corrections. Analysis of functions, jurisdiction, operation and relationships. IAI CRJ 901. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

SOCL 265 Introduction to Social Work. Values and history that underlie social work issues; discussion of the profession of social work and its concern with human welfare areas and field of service. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

SOCL 270 Marriage and the Family. Family system and its changing relationships to contemporary society. Structures, value orientation and personality patterns, role and status interrelationships. IAI S7 902. Prerequisite: SOCL 100. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

SOCL 290 Social and Cultural Change. Analysis of large scale historical change, the succession of types of societies and the emergence of the contemporary world. Evolution of social institutions (the family, religion) and speculation about significant future change. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

SOCL 291 Selected Topics in Sociology. According to the interests of the sociology majors. 3 semester credit hours. Typically offered: Periodically. Course Repeatable. Maximum number of units allowed 99. 3 semester credit hours. Typically offered: Spring Term. *Course Repeatable. Maximum number of units allowed 99.*

SOCL 301 Social Welfare Services. Survey of social work agencies. Application of social systems to public and voluntary social welfare services. Prerequisite: SOCL 265. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

SOCL 306 Correctional System. Theory and research relating to treatment, incarceration and rehabilitation of the offender. IAI CRJ 911. Prerequisite: SOCL/CJUS 260. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

SOCL 310 Social, Psychological and Cultural Aspects of Aging. This course examines social, psychological and cultural aspects that impact the aging process. An analysis of the individual and society, explorations of changes in roles and status, intergenerational relationships, sociocultural differences and intrapsychic dynamics will be explored. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

SOCL 321 Crime and Delinquency. Social and psychological factors related to crime, theories of crime and delinquency, police and court systems and correctional institutions. IAI CRJ 912. Prerequisite: SOCL/CJUS 260. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

SOCL 350 Social Theory. Origin and development of sociology through a study of the classic works of the 19th and 20th centuries. Prerequisite: SOCL 100. 3 semester credit hours. Typically offered: Fall Term. 3 semester credit hours. Typically offered: Fall Term.

SOCL 351 Research Methods in the Social Sciences. An analysis of various theoretical approaches to the study of social sciences as well as discussion and completion of the first two chapters of an original research design. Prerequisite: PSYC 251 or SOCL 251 or CJUS 251. Fee: \$35. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms. 3 semester credit hours. Writing Intensive Course. Typically offered: Fall and Spring Terms.

SOCL 356 Clinical Practicum/Lab. Focus is on teaching interpersonal and primary-level skills of empathy, listening, and interviewing to the introductory-level helping professional. Prerequisite: Junior or Senior in PSYC/SOCL program. 4 semester credit hours. Typically offered: Fall and Spring Terms. 4 semester credit hours. Typically offered: Fall and Spring Terms.

SOCL 371 Death and Dying. Dynamics of the grief process, the care of the terminally ill and the needs of survivors in the sociological and psychological context of death. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

SOCL 390 Criminal Justice Field Placement. Observation and participation in the daily work of a criminal justice agency. Each semester. Prerequisite: PSYC 356 or SOCL 356, consent of program director and field placement director prior to the 10th week of the semester preceding the field placement, and a G.P.A. of 2.5 or better. 3-6 semester credit hours. Typically offered: Fall and Spring

Terms. Department Consent Required. 3-6 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

SOCL 391 Topics in Sociology. Relevant topics according to the needs and interests of the criminal justice students. Prerequisite: SOCL 100. 3 semester credit hours. Typically offered: Periodically. Course Repeatable. Maximum number of units allowed 99. 3 semester credit hours. Typically offered: Periodically. *Course Repeatable. Maximum number of units allowed 99.*

SOCL 392 Social Work Field Placement. This internship provides experience in practice in a professional agency under the supervision of a trained practitioner. Each semester. Prerequisite: SOCL 356, Consent of the program director and field placement director prior to the 10th week of the semester preceding the field placement, and G.P.A. of 2.5 or better. 3-6 semester credit hours. Typically offered: Fall and Spring Terms. Department Consent Required. 3-6 semester credit hours. Typically offered: Periodically. *Department Consent Required.*

SOCL 394 Group Processes. Introduces theory and components of group process. Opportunities to participate in functioning groups for decision making and practicing of newly developed skills. Prerequisite: SOCL 356. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

SOCL 395 Senior Thesis. Completion of an original research project under faculty supervision, involving either an original survey design, case study, or experimental analysis. Prerequisite: PSYC 351 or SOCL 351 or CJUS 351. 3 semester credit hours. Department Consent Required. 3 semester credit hours. *Department Consent Required.*

SOCL 397 Sociology Field Placement. Supervised experience in an on- or off-campus setting related to the student's interest in sociology. Prerequisite: SOCL 356, Consent of the program director and field placement director prior to the 10th week of the semester preceding the field placement, and G.P.A. of 2.5 or better. 3-6 semester credit hours. Typically offered: Fall and Spring Terms. Department Consent Required. 3-6 semester credit hours. Typically offered: Fall and Spring Terms. *Department Consent Required.*

Spanish

SPAN 101 Elementary Spanish I. Introduction to the basic structure of the language. Designed to enable the student to begin to develop oral proficiency and written skills. 3 semester credit hours. Typically offered: Fall and Summer Terms.

SPAN 102 Elementary Spanish II. Continued study of the basic structure of the language. Designed to enable the student to continue to develop oral proficiency and written skills. Prerequisite: SPAN 101 or placement. 3 semester credit hours. Typically offered: Spring and Summer Terms.

SPAN 201 Intermediate Spanish I. Review of the basic structure of the language. Emphasis on extensive language practice in simulated cultural settings in order to enable students to continue to develop their oral and written proficiency. Prerequisite: SPAN 102 or placement. 3 semester credit hours. Typically offered: Fall and Summer Terms.

SPAN 202 Intermediate Spanish II. Continued review of the basic structure of the language. Emphasis on extensive language practice in simulated cultural settings in order to enable students to continue to develop their oral and written proficiency. IAI H1 900. Prerequisite: SPAN 201 or placement. 3 semester credit hours. Typically offered: Spring and Summer Terms.

Speech

SPCH 110 Basic Speech. An introduction to public speaking, communication theory and small-group and interpersonal communication. The course includes researched extemporaneous speeches and several in-class exercises. IAI C2 900. 3 semester credit hours. Typically offered: Fall and Spring Terms. Please note: For the Online courses, speeches must be delivered to a live audience and recorded for submission.

Theater

THEA 121 Fundamentals of Theater Arts. An introduction to theater arts providing basic knowledge and experience of drama realized as theater. Acting, directing, play writing, designing scenery, costumes and lighting are studied. Also included are stage and house management and play production. Special Fee required. IAI F1 907. 3 semester credit hours. Typically offered: Fall and Spring Terms.

Theology

THEO 101 Theology of Love. Christianity teaches that God is love and this course unpacks what that statement means. We will examine the concept of "God is Love" in the systematic theology of the Trinity, the sacramental theology of the Eucharist and Marriage, and the Catholic understanding of the moral life. 3 semester credit hours. Religious Studies Core Elective. 3 semester credit hours. Religious Studies Core Elect.

THEO 102 Theology of Justice. This course examines the idea of justice particularly in relation to the redeeming death of Christ and its implications for theology. It will survey the systematic theology of Christology and the Atonement; the sacramental theology of the Eucharist, Reconciliation, and Holy Orders, and the moral theology of law, social justice, and canon law. 3 semester credit hours. Religious Studies Core Elective. 3 semester credit hours. Religious Studies Core Elect.

THEO 103 Theology of Freedom. This course examines the concept of freedom in human life and theology, particularly as it relates to the problem of evil, human action, and creativity. It will survey the systematic theology of Creation, Salvation History, and Eschatology, the study of the last things; the sacramental theology of Baptism, Confirmation and Reconciliation; the ecclesial theology of the laity; and the moral theology of human action and freedom of conscience. 3 semester credit hours. Religious Studies Core Elective. 3 semester credit hours. Religious Studies Core Elect.

THEO 104 Faith and Science. This course examines the relationships between faith, reason, Catholic theology, and the secular understanding of science. It will survey the systematic theology of creation and the possibility of reason, the sacramental understanding of creation, the moral theology of ecology and the ecclesial theology of the autonomy of the secular disciplines. 3 semester credit

hours. Religious Studies Core Elective. Typically offered: Fall, Spring, and Summer Terms. 3 semester credit hours. Religious Studies Core Elect. Typically offered: Fall, Spring, and Summer Terms.

THEO 207 Catholic Social Teaching. Course examines the history and contemporary application of Catholic social teaching. 3 semester credit hours. 3 semester credit hours.

THEO 220 Mediterranean World. Covers content of HUMN 220 with emphasis on history of the Old Testament. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Fall Term. Department Consent Required. 3 semester credit hours. Religious Studies Core Elect. Typically offered: Fall Term. *Department Consent Required.*

THEO 230 Baptism of Europe. Same content as HUMN 230 with emphasis on the foundation of the Catholic Church and New Testament history. 3 semester credit hours. Religious Studies Core Elective. Typically offered: Spring Term. Department Consent Required. 3 semester credit hours. Religious Studies Core Elect. Typically offered: Spring Term. *Department Consent Required.*

THEO 307 Catholic Social Teaching. Course examines the history and contemporary application of Catholic social teaching. 3 semester credit hours. Typically offered: Annually. 3 semester credit hours. Typically offered: Annually.

Writing Program

WRIT 101 Person in Community: Writing Colloquium. A first-year writing-intensive skills course whose content focuses on Benedictine University and its mission of higher learning grounded in the liberal arts and guided by its Benedictine Heritage and Catholic tradition. Students will be introduced to the theme of "Person in Community," which unites the Cultural Heritage sequence of courses. Readings will encourage students to understand, discuss, and write about issues of contemporary relevance. Emphasis on writing and revising argumentative essays, grammar review, basic library research skills, and textual analysis. Grade of "C" or better. IAI CI900. 3 semester credit hours. Typically offered: Fall and Spring Terms.

WRIT 102 Research Writing. A course that introduces students to writing in the disciplines of literature, social science, or biological science. Students study types of writing in the discipline, use advanced library research techniques, write brief literature reviews, and develop and write significant research papers. Grade of "C" or better. IAI CI901. 3 semester credit hours. Typically offered: Fall and Spring Terms.

WRIT 95 Sentence and Paragraph Skills. A course for students who need more writing experience while taking WRIT-101. This course is designed to improve basic sentence and paragraph skills. Extensive practice with basic grammar, standard English and sentence structure. There will be both class and individualized instruction. One hour each week will be an in-class writing lab. 4 semester credit hours.

FACULTY DIRECTORIES

College of Business Faculty Directory

Sharon Borowicz, Ph.D., EA, Associate Professor, Business Administration (2004)

B.S., 1982, Elmhurst College

M.B.A., 1982, Roosevelt University

Ph.D., 2003, Benedictine University

Marvin E. Camburn†, Ph.D., Professor Emeritus, Business Administration (1978)

B.A., 1960, Albion College

M.A., 1964, University of Detroit

Ph.D., 1971, Michigan State University,

M.B.A., 1987, Benedictine University

Deborah Cernauskas, Ph.D. Associate Professor, Undergraduate Business and Finance (2011)

B.S., 1978; M.S., 1979, Northern Illinois University

M.B.A., 1987, Illinois Benedictine College

Ph.D., 2003 Illinois Institute of Technology

David Dibblee, M.B.A., CPA, Associate Professor Emeritus, Undergraduate Business and Finance (1982)

B.A., 1965, Aurora College

M.B.A., 1979, University of Illinois at Urbana-Champaign

Charles Gahala, Ed.D., CCE, Professor, Undergraduate Business and Finance (1984)

B.S. in Management 1972, Northern Illinois University

M.B.A., 1976; Ed.D., 1994, Northern Illinois University

Sandra Gill, Ph.D., CCS, Associate Professor, Business Administration (2001)

B.A., 1970; M.A., 1974, Michigan State University

M.A., 1995; Ph.D., 1998, Fielding Graduate University

Timothy Goines, Ph.D., Associate Professor, International Business and Economics (1997)

B.B.A., 1986, University of Texas at Austin

M.A., 1991, George Washington University

Ph.D., 1998, University of Texas at Dallas

Donald Henschel, M.B.A., CP A, Instructor, Undergraduate Business and Finance (2002)

B.S., 1968, University of Illinois at Urbana-Champaign

M.B.A., 1970, The University of Chicago

Vicki Jobst, M.B.A., CPA, Instructor, Undergraduate Business and Finance (2007)

B.S., 1979, University of Nebraska

M.B.A., 1985, Illinois Benedictine College

The information contained on this page is from the 2013-2014 Undergraduate Catalog and is valid until August 1, 2014.

Nona Jones, Ph.D., Associate Professor, Undergraduate Business and Finance, (2001)
B.S., 1966, West Virginia State College
M.A.T., 1968, Indiana University
M.B.A., 1976, Roosevelt University
Ph.D., 2000, Walden University

Soyon Lee, Ph.D., CPA, Professor, International Business and Economics (1974)
B.A., 1960, Yonsei University
M.A., 1963, National University
M.A., 1968, Highlands University
Ph.D., 1977, Northern Illinois University

Isobel Lobo, Ph.D., Professor, International Business and Economics (2001)
B.A., St. Joseph's College
M.A. 1970, University of Karachi
M.A., University of Notre Dame
Ph.D., 1998, University of Notre Dame

James Ludema, Ph.D., Professor, Organizational Development
B.A., 1982, Calvin College
Ph.D., 1996, Case Western Reserve University

Jeffrey Madura, M.B.A., CPA, Professor, Undergraduate Business and Finance
B.A., 1967, University of Notre Dame
M.B.A., 1971, Northwestern University

Barbara Ozog, Ph.D., Professor, Information Systems, (1992)
B.S., 1977, Loyola University Chicago
M.S., 1979; Ph.D., 1985, Northwestern University

Robert Rebman, M.B.A., Instructor, Undergraduate Business (2011)
B.A., 1977, Roosevelt University
M.B.A., 1988, University of Chicago

Margarete P. Roth, Ph.D., Professor Emerita, International Business and Economics (1970)
B.A., 1962; Ph.D., 1966, University of Cologne (Germany)

Peter Sorensen, Ph.D., Professor, Organizational Development (1985)
B.A., 1961; M.A., 1966, Roosevelt University
Ph.D., 1971, Illinois Institute of Technology

Ramkrishnan Tenkasi, Ph.D., Professor, Organizational Development (1998)

B.A., Western Madrid India

M.A., Tata Institute of Social Sciences, India

M.S. 1990, Bowling Green State University

Ph.D., 1994, Case Western Reserve University

Therese Yaeger, Ph.D., Professor, Management and Organizational Behavior (2007)

B.A., 1995, Benedictine University

M.S., 1996; Ph.D., 2001, Benedictine University

Thomas Yu, Ph.D. Assistant Professor, Business Administration (2009)

B.S., 1971, Montana State University

M.S., 1973, Arizona State University

Ph.D., 1978, Texas A&M University

College of Education and Health Services Faculty Directory

Catherine Stein Arnold, Ed.D., M.S., RD, LDN, Professor, Nutrition (1986)

B.S., 1984, Illinois Benedictine College

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Ed.D., 2006, Northern Illinois University

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B.S., 1984, DePaul University

M.H.S., 2002, Johns Hopkins University

Ph.D., 2008, Arizona State University

Elizabeth Bell, Ed.D., Assistant Professor, Physical Education (2010)

B.S., 1996, Morningside College

M.S., 1997, California University of Pennsylvania

Ed.D., 2005, Tennessee State University

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M.P.H., 2003, Northern Illinois University

Richard Campbell, Ed.D., Certification Officer, Education (2002)

B.S.Ed., 1963; M.S.Ed., 1967, Eastern Illinois University

Ed.D., 1984, Illinois State University

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B.A., 1965; M.A., 1967, Delhi University, India

Ph.D., 1982, Kent State University

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B.A., 2000, Northwestern University
M.P.H., 2003, San Diego State University
Ph.D., 2009, University of California, San Diego/San Diego State University

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B.S., 1984, Eastern Illinois University
M.S., 1985, Rush University

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B.S., 1992, Loyola University Chicago
M.S., 2002, DePaul University

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B.S., 2000, Illinois State University
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B.A., 1964, University of Iowa
M.A., 1967, University of Toronto
Ph.D., 1971, University of Iowa
M.P.H., 1976, University of Illinois at Urbana-Champaign

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B.S.N., 1993, Union University
M.S.N., 1995, Mississippi University for Women
D.N.Sc., 2006, University of Tennessee

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B.S., 1984, Marquette University
M.S.N., 2009, Lewis University

Meshelda Jackson, Ph.D., Associate Professor, Education (2007)
B.S., 1982, Alabama A&M University
M.S., 1991, Nova University
Ph.D., 1998, University of Pittsburgh

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B.S.N., 1996, Barat College
M.S., 2000, DePaul University

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B.A., 1970, Rutgers University

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Ph.D., 1985, Pennsylvania State University

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B.A., 1973; M.A., 1978, Concordia University Illinois

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B.S., 1975, Northern Illinois University

M.S.N., 1979, Loyola University Chicago

Ed.D., 2011, Concordia University - Chicago

James Pelech, Ed.D., Associate Professor, Education (2003)

B.A., 1973, St. Norbert College

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B.A., 1970, Lewis University

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B.S.N., 1986, Rush University College of Nursing

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B.S., 1978, North Park University

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Rev. David Turner, O.S.B., Ph.D., D.Min. (Prin.), Professor Emeritus, Education, (1963)

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M.A., 1963; Ph.D., 1970, University of Minnesota

M.Div., 1979, Mount Angel Seminary

D.Min.(Prin.), 1996, Princeton Theological Seminary

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Ed.D., 2005, Oklahoma State University

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B.A., 1996, Elmhurst College

M.Ed., 1997, Benedictine University

Ph.D., 2002, Loyola University

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B.Sc., 1970, University of Alberta

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A.B., 1955, National School for Teachers, Mexico

M.A., 1963, Normal Superior College, Mexico

M.A., 1971, Loyola University Chicago

Ph.D., 1993, Laval University, Quebec, Canada

Christopher Birks, M.A., Assistant Professor, Communication Arts (2009)

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M.A., 1969, Boston College

M. Div., 1973, Weston College

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Rev. Christian W. Ceplecha, O.S.B.†, Ph.D., Professor Emeritus, History (1953)

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B.A., 1937, St. Louis University

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B.A., 1973, University of Queensland (Australia)

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Ph.D., 2003, Macquarie University (Australia)

John M. Kloos, Ph.D., Professor, Religious Studies (1984)

B.A., 1972; M.A., 1978, Miami University (Ohio)

Ph.D., 1984, The University of Chicago

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B.A., 1959, New York University

M.A., 1962; Ph.D., 1965, New York University

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B.A., 1984, Clark University

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B.A., 1999, Bates College

M.A., 2001, University of New Hampshire

Ed.D., 2009, Harvard University

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B.M. 2000; M.M., 2003, Illinois State University
Ph.D., 2010, University of Illinois at Urbana-Champaign

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B.A., 1975, University of Maine
M.S., 1977; Ph.D., 1982, University of Oregon

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B.M., 1948, Northwestern University
M.M., 1950, Northwestern University

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B.M., 1987; M.M., 1988, Northwestern University
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Laurea di Dottore in Filosofia, 1972, Università degli Studi di Roma
Ph.D., 1981, University of Texas at Arlington

Susan Mikula, Ph.D., Professor, History (1981)
B.A., 1965, University of Detroit
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M.A., 1993, U.N.E.D. Madrid (Spain)
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M.A., 1997; Ph.D., 2000, Universidad de Leon (Spain)

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Ph.D., 1967, University of Michigan

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B.A., 1987, Wesleyan University
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M.A.; Ph.D., 1997, University of California at Berkeley

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L.Mus., 1963 Mus.B., 1964, Acadia University

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B.F.A., 1983, Miami University (Ohio)

M.S., 1985; M.F.A., 1987 Illinois State University

Brian Patterson, Ph.D., Assistant Professor, Psychology-Sociology (2008)

B.A., 1995, Mount Union College

M.A., 2003; Ph.D., 2007, DePaul University

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B.A., 2005, St. Mary's University of Minnesota

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B.A., 1974, Roosevelt University

M.Ed., 1986, Chicago State University

Ph.D., 1992, The University of Chicago

Margaret Salyer, M.S., Instructor, Clinical Psychology (2000)

B.A., 1971, Northern Illinois University

M.S., 1996, Benedictine University

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B.A., 1990, University of Pittsburgh at Johnstown

J.D., 1993, Duquesne University School of Law

Ph.D., 2001, University of South Carolina

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Ph.D., 1973, The University of Chicago

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B.A., 1984, University of Illinois at Springfield
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B.A., 1960, College of St. Francis
M.A., 1967, University of Notre Dame

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B.M., 1985; M.M., 1986, University of Illinois at Urbana-Champaign
D.M.A., 1990, The Juilliard School of Music

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B.S., 1978, Virginia Commonwealth University
M.A., 1980; Ph.D., 1990, University of Wisconsin – Madison

Bernard J. Toussaint, Ph.D., Professor, Philosophy (1971)
B.S., 1957, Loyola University (Chicago)
M.A., 1962; Ph.D., 1971, DePaul University

Martin Tracey, Ph.D., Professor, Philosophy (1997)
A.M., 1991, The University of Chicago
B.A., 1990; M.M.Sm, 1993; Ph.D., 1997, University of Notre Dame

Gloria J. Tysl, Ph.D., Professor Emerita, History (1969)
B.A., 1960, Mount Mary College
M.A., 1967, DePaul University
Ph.D., 1976, Indiana University

Rev. Leo C. Vancura, O.S.B.†, M.A., Professor Emeritus (English and Fine Arts)
B.A., 1936, St. Procopius College
M.A., 1943, University of Illinois at Urbana-Champaign

Beth Joan Vinkler, Ph.D., Professor, Foreign Languages (1990)
B.A., 1981, University of Illinois at Urbana-Champaign
M.A., 1984; Ph.D., 1990, The University of Chicago

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B.M., B.M.E., 1982, Baylor University
M.M., 1984, Southwestern Theological Seminary
Ph.D., 1999, The Florida State University

College of Science Faculty Directory

Preston R. Aldrich, Ph.D., Associate Professor, Biological Sciences (2004)

B.A., 1987, St. Olaf College

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Ph.D., 1997, University of Georgia

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B.S., 1943, St. Procopius College

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Duane J. Buss†, Ph.D., Professor Emeritus, Physics (1970)

B.S., 1961, St. Procopius College

Ph.D., 1966, University of Notre Dame

Rose A. Carney†, Ph.D., Professor Emerita, Mathematics and Physics (1948)

B.S., 1942; M.S., 1946, DePaul University

Ph.D., 1961, Illinois Institute of Technology

Eileen G. Clark, M.S., Associate Professor, Computer Science (1971)

B.S., 1969, State University of New York (Albany)

M.S., 1971, Purdue University

Timothy Comar, Ph.D., Associate Professor, Mathematics (2001)

Sc.B., 1991, Brown University

Ph.D., 1996, University of Michigan

Pedro Del Corral, Ph.D., M.D., Assistant Professor, Biological Sciences (2012)

B.A., 1991, University of Iowa

Ph.D., 1997, University of Tennessee

M.D., 2003, The University of Sint Eustatius School of Medicine, Netherland Antilles

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B.S., 2005, Benedictine University

M.S., 2008; Ph.D., 2010, University of Nebraska

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B.S., M.Sc., 2000, Wageningen University, the Netherlands

Ph.D., 2006, University of Groningen, the Netherlands

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B.S., 1975, Wheeling College

Ph.D., 1983, Indiana University

James J. Hazdra†, Ph.D., Professor Emeritus, Chemistry (1961)

B.S., 1955, St. Procopius College

Ph.D., 1959, Purdue University

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Lawrence E. Kamin, Ph.D., Professor, Biological Sciences (1973)

B.A., 1966, St. Ambrose College

B.A. (Geography), 1989, Roosevelt University

M.G.S., 1996, Roosevelt University

M.A. (American History), 2001; M.A. (Economics), 2003, Roosevelt University

M.S. (Botany), 1968; M.S. (Computing and Information Science), 1986; M.S. (Mathematics), 1993, Roosevelt University

Ph.D., 1972, University of Illinois at Urbana-Champaign

Manmohan Kaur, Ph.D. Professor, Mathematics (2001)

B.A., 1987; M.A., 1989; M. Phil, 1991, University of Delhi (India)

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B.S., 1970, Wake Forest University

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B.S., 1997, Bridgewater College
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B.S., 1966, St. Procopius College
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M.S. (Statistics), 1971, Purdue University
D.A., 1984, University of Illinois at Chicago

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B.S., 1967, St. Procopius College
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Ph.D., 2007, University of Arizona

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B.S., 1964, Loyola University Chicago
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B.S., 1998, Benedictine University
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Peter H. Nelson, Ph.D., Associate Professor, Physics (2002)
B.Sc., 1984; M.Sc., 1990, Victoria University of Wellington (New Zealand)
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B.S., 1968, Saint Joseph's College
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B.Mus., 1951; M.S.Ed., 1955, Boston University
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Fr. Richard E. Shonka, O.S.B.†, M.S., Professor Emeritus, Computer Science (1935)

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M.S., 1931, The University of Chicago

Fr. William J. Shonka, O.S.B.†, Ph.D., Professor Emeritus, Physics and Mathematics (1933)

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B.S., 1985; Ph.D., 1990, Old Dominion University

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