The courses listed in this catalog have a special numbering system designed to aid in course selection and registration. Each course number consists of several parts. The first of these is a four letter department/program identification (i.e. MATH).

The second may have the letter “S” to designate those basic skills courses which do not fulfill core requirements; or the letter “C” to designate core elective courses; or the the letters “CF” to designate courses applicable to the FNAR/MUSI core; or the letter “T” to designate non-western or third-world courses required for teacher certification candidates.

The third part of the designation is the level indicator and the particular number of the course within a given level. The interpretation of the numeric part of the designation is:

000-099 Developmental, not included in the 120 hours required for graduation.

100-199 Introductory courses requiring no previous knowledge at the university level nor any skills beyond those ordinarily expected of a university preparatory secondary school graduate.

200-299 Intermediate level courses requiring prior university level knowledge or skills beyond those ordinarily expected of a university preparatory secondary school graduate.

300-399 Advanced level courses requiring knowledge, sophistication or skills ordinarily expected of university students who have completed two years of academic work.

100-, 200-, 300-level courses whose second and third digits run from 90 to 99 are experiences of a more independent or specialized nature, such as topics, special topics, seminars, research, theses, practicums and internships.

After the level and sequence numbers is the credit hours (in parentheses) for the course. Variable credit courses have a dash indicating minimum and maximum course credit. In the registration schedule the course number is followed by a section letter. Certain sections have restricted enrollment:

W - for Adult Program students on the weekends
Z - for Adult Program students in the evenings

Example: HIST-306(3) is an advanced level history course, number 306, offering three credit hours.

If a course has a prerequisite listed, it is the student’s responsibility to determine that he/she has taken it, or has seen the instructor regarding a suitable equivalent. (Note that some prerequisites have their own prerequisites.) Many courses also have a projected schedule as to when they will next be offered. The schedule is subject to change.

Please note the following: In some cases where laboratory experiences are listed as separate courses, co-registration may be required in both lecture and lab. In other cases, co-registration in the lab experience is not required. The course description in this catalog will indicate whether co-registration is required.

Benedictine University participates in the Illinois Articulation Initiative (IAI) Agreement. The purpose of the IAI is to facilitate student transfer by identifying common curriculum requirements across associate and baccalaureate degrees, as well as across institutions. The IAI provides for the following:

- Students admitted in transfer who have earned an Associate in Arts or an Associate in Science degree from a regionally accredited Illinois community or junior college whose general education requirement for the degree incorporates the Illinois General Education Core Curriculum will have met the receiving institution’s all-campus, lower-division general education requirement for the baccalaureate degree (or for a second associate degree). A receiving institution may, however, require admitted transfer students to complete an institution-wide and/or mission-related graduation requirement that is beyond the scope of the Illinois General Education Core Curriculum.

- Students admitted in transfer who have satisfactorily completed the Illinois General Education Core Curriculum at any regionally accredited Illinois college or university prior to transfer should be
granted credit in lieu of the receiving institution's all-campus, lower division general education requirement for an associate or baccalaureate degree. A receiving institution may, however, require admitted transfer students to complete an institution-wide and/or mission-related graduation requirement that is beyond the scope of the Illinois General Education Core Curriculum.

- Students admitted in transfer who have satisfactorily completed courses within the Illinois General Education Core Curriculum at a regionally accredited Illinois college or university should be granted credit towards fulfilling the receiving institution's comparable all-campus, lower-division general education requirement.

- Students admitted in transfer who have met program entry requirements and have satisfactorily completed courses described in an Illinois Articulation Initiative Baccalaureate Major Curriculum Recommendation at a regionally accredited Illinois College or university should be granted credit towards fulfilling the receiving institution's comparable lower-division requirements for that specific major. Where admission is competitive, completion of a Baccalaureate Major Recommendation does not guarantee admission.

More information may be obtained from www.itransfer.org.

The following list indicates all Benedictine University courses currently applicable to the Illinois Articulation Initiative General Education Core Curriculum.

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IAI Courses
P1 900L General Education Physics
P1 902 General Education Chemistry

P1 902L General Education Chemistry

P1 903 Chemistry And Society
P1 909 Physical Geography

S1 901N Intro to Cultural Anthropology
S2 900 United States History I
S2 901 United States History II
S3 901 Principles Of Macroeconomics
S3 902 Principles Of Microeconomics
S5 900 American/U.S. National Government I
S5 902 American/U.S. State And Local Gov’t
S5 903 Principles Of Political Science
S5 904N International Relations
S5 904N Comparative Government
S6 900 General Psychology I
S6 904 Childhood And Adolescent Psychology
S7 900 Introduction To Sociology
S7 901 Social Problems
S7 902 Marriage And Family
S7 903D Racial And Ethnic Relations
S8 900 Social Psychology

Benedictine Courses
PHYS 114 General Physics Lab I
CHEM 101 Introduction to Chemistry
CHEM 113 General Chemistry I
CHEM 102 Introduction to Chemistry Lab
CHEM 114 General Chemistry I Lab
BCHM 100 Impact Sci & Tech in Soc
GEOG 101 Physical Geography
PHYS 101 Physics
ANTH 200 Cultural Anthropology
HIST 201 Amer Hist to 1865
HIST 202 Amer Hist since 1865
ECON 101 Princ of Macroeconomics
ECON 102 Princ of Microeconomics
PLSC 102 American Government
PLSC 201 State & Local Govern
PLSC 100 Princpl of Politics
PLSC 210 Intern’l Relations
PLSC 101 Global Affairs
PLSC 220 Comparative Politics
PSYC 100 Survey of Psychology
PSYC 200 Childhd & Adolescence
SOCIL 100 Principles of Sociology
SOCIL 240 Social Problems
SOCIL 270 Marriage and Family
SOCIL 205 Racial and Ethnic Groups
SOCIL 210 Social Psychology
SOCIL 210 Social Psychology

LITR-264 Emerging Voices: Contemporary Global Literature
LITR-265 Shakespeare
LITR-266 Studies in the Novel
LITR-267 Studies in Poetry
LITR-279 Voices of American Experience
LITR-280 African American Literature
LITR-281 Gender and Literature
SPAN-220 Introduction to Spanish Literature
SPAN-221 Introduction to Contemporary Latin American Literature
SPAN-307 Contemporary Drama in Spain
SPAN-310 Contemporary Latin American Narrative

Philosophy (3 hours):
PHIL-110 Introduction to Philosophy
PHIL-120 Greek Philosophy
PHIL-205 Philosophy of Human Nature
PHIL-210 Philosophy of Being
PHIL-230 American Philosophy
PHIL-240 General Ethics
PHIL-245 Biomedical Ethics
PHIL-250 Business Ethics
PHIL-260 Social and Political Philosophy
PHIL-291 Evolution,Creation and God
PHIL-291 Philosophy of Science
PHIL-315 Theory of Knowledge
PHIL-320 Medieval Philosophy
PHIL-325 Contemporary Philosophy
PHIL-335 Modern Philosophy
PHIL-355 Philosophy of Law

Religious Studies (3 hours):
RELS-100 Religion and Culture
RELS-120 Eastern Religious Tradition
RELS-130 Western Religious Tradition
RELS-140 World Religions
RELS-150 Introduction to the Bible
RELS-155 New Testament
RELS-160 Jesus Christ
RELS-165 The Church
RELS-170 Early Christianity
RELS-191 African American Religious Experience
RELS-191 African Religious Traditions
RELS-191 Ancient Religions
RELS-191 Christian Monasticism
RELS-191 Psalms and Israelite Worship
RELS-191 The Idea of Christ in Western Culture
RELS-191 Religion and Science
RELS-230 Judaism
RELS-235 Islam
RELS-240 Christian Worship
RELS-250 Christian Ethics
RELS-265 Eastern Christianity
RELS-270 Roman Catholicism
RELS-275 Protestantism
RELS-285 Religion in America
RELS-291 Women in Hebrew Scriptures
RELS-291 Medieval Christianity

Arts and Humanities Core (12 hours)

Liberal Arts Core Elective List

Arts and Humanities Core (12 hours)

Literature (3 hours):
FREN-311 Introduction to French Literature
GENS-100 Introduction to Gender Studies
LITR-210 Literature and Film
LITR-255 American Literature I
LITR-256 American Literature II
LITR-257 British Literature I
LITR-258 British Literature II
LITR-259 Western Literature in translation

Fine Arts (3 hours):
COMM-250 Masters in American Cinema
COMM-251 History of Film
COMM-256 International Film
COMM-316 Advanced Television Production
FNAR-100 Art Appreciation  
FNAR-101 Fundamentals of Design  
FNAR-111 Drawing  
FNAR-203 Ancient and Medieval Art  
FNAR-204 Renaissance to Modern Art  
FNAR-250 Oil Painting  
LITR-269 Introduction to Creative Writing  
MUSI-200 Music Appreciation  
MUSI-203 Music Literature I  
MUSI-204 Music Literature II  
MUSI-207 World Music  
MUSI-208 Women in Music  
MUSI-235 Jazz Appreciation I  
MUSI-236 Jazz Appreciation II  

**Natural Science Core (9 hours)**  
**Biological Sciences (3 hours):**  
BCHM-100 Impact of Science and Technology on Society  
BCHM-261 Principles of Biochemistry (BIOL-261)  
BIOL-101 Introduction to Ornamental Horticulture & Lab  
BIOL-104 Introduction to Ornamental Horticulture  
BIOL-106 Animal Kingdom  
BIOL-108 Principles of Biology Lab  
BIOL-109 Principles of Biology  
BIOL-150 Biology of Women  
NRHL-100 Topics in Health Care  
NTSC-111 Contemporary Biology  
NTSC-112 Contemporary Physical Science  
NTSC-151 Natural Science Interdisciplinary Laboratory I  
NTSC-152 Natural Science Interdisciplinary Laboratory II  
NTSC-153 Natural Science Interdisciplinary Laboratory III  
NTSC-154 Natural Science Interdisciplinary Laboratory IV  
NUTR-100 Impact of Nutrition  
NUTR-241 General Nutrition  
SOCL-213 Health Aspects of Aging (NRHL-213)  

**Physical Sciences (3 hours):**  
CHEM-101 Introduction to Chemistry  
CHEM-102 Introduction to Chemistry Laboratory  
CHEM-103 Introduction to Organic Chemistry and Biochemistry  
CHEM-104 Introduction to Organic Chemistry and Biochemistry Laboratory  
CHEM-107 Chemistry: An Experimental Science  
CHEM-113 General Chemistry I  
CHEM-114 General Chemistry I Laboratory  
CHEM-123 General Chemistry II  
CHEM-124 General Chemistry II Laboratory  
GEOG-105 Earth Science (PHYS-105)  
NTSC-151 Natural Science Interdisciplinary Laboratory I  
NTSC-152 Natural Science Interdisciplinary Laboratory II  
NTSC-153 Natural Science Interdisciplinary Laboratory III  
NTSC-154 Natural Science Interdisciplinary Laboratory IV  
PHYS-101 Physical Science  
PHYS-113 General Physics I  
PHYS-114 General Physics I Laboratory  
PHYS-118 General Physics II  
PHYS-205 Experimental Physics I  
PHYS-211 Physics I  
PHYS-212 Physics II  

**Sciences:**  
CIS-120 Information Systems: Principles and Programming  
CMSC-105 Microcomputer Applications to Teaching  
CMSC-120 Problem Solving with Computers  
CMSC-200 Introduction to Computer Science  
MATH-112 Topics in Mathematics  
MATH-115 Finite Mathematics II  
MATH-170 Introduction to Calculus  
MATH-210 Calculus with Analytics I  
MATH-211 Calculus with Analytics II and Calculus  
MATH-208 Tools Laboratory  
MATH-212 Calculus with Analytics III and  
MATH-208 Calculus Tools Laboratory  

**Social Sciences Core (9 hours)**  
**Psychology/Sociology (3 hours):**  
PSYC-100 Survey of Psychology  
PSYC-210 Social Psychology (SOCL-210)  
SOCL-100 Principles of Sociology  

**Economics/Business (3 hours):**  
ECON-101 Principles of Macroeconomics  
ECON-102 Principles of Microeconomics  
INTB-320 Area Studies (ECON-320)  
MGT-300 Management  
MKTG-310 Consumer Behavior  

**Political Science/Anthropology (3 hours):**  
ANTH-200 Cultural Anthropology  
ANTH-208 Economic and Cultural Geography of Developing Countries  
ANTH-210 Peoples and Cultures of World Regions  
ANTH-292 Business Anthropology  
PLSC-100 Principles of Politics  
PLSC-101 Global Affairs  
PLSC-102 American Government  
PLSC-105 Law and Politics  
PLSC-210 Introduction to International Relations  
PLSC-213 American Foreign Policy  
PLSC-215 International Diplomacy in Simulation  
PLSC-220 Comparative Politics
**Accounting (ACCT) Courses**


ACCT-112(3). Accounting II: Planning, Recording and Evaluating Investment and Financial Decision. The second introductory course on the use of accounting in business decision making. The emphasis is on investing and financing (debt and equity) decisions, and their impact on financial statements. The analysis and evaluation of total firm performance (profitability, financial position, and cash flows) is a major aspect of this course. Prerequisites: ACT-115. Periodically. IAI BUS 904.

ACCT-211(3). Intermediate Accounting I. A thorough study of balance sheet accounts integrated with an analysis of their relationship to the income statement. Prerequisites: ACCT-112, MATH-C115. Fall/Spring. (See MBA 504 in the graduate catalog.)

ACCT-212(3). Intermediate Accounting II. A thorough study of balance sheet accounts integrated with an analysis of their relationship to the income statement. Prerequisites: ACCT-211. Fall/Spring. (See MBA 506 in the graduate catalog.)

ACCT-297(2-6). Internship. Practical experiences in business related fields under the supervision of the program. Prerequisite: Consent of faculty coordinator.


ACCT-312(3). Federal Taxation. An introductory study of federal regulations covering taxation of individuals and businesses. Prerequisite: ACCT-112. Fall. (See MBA 512 in the graduate catalog.)

ACCT-313(3). Principles of Auditing. An intensive study of generally accepted auditing standards and procedures. Prerequisite: ACCT-212. Fall.


ACCT-380(3). Issues in Corporate Financial Reporting. An intensive and extensive study of corporate annual reports to understand and evaluate the application of financial accounting theory and concepts to external financial reporting. Prerequisite: Senior standing and ACCT-212. Spring.

ACCT-391(3). Topics.

ACCT-395(1-3). Independent Study.

**Anthropology (ANTH) Courses**

ANTH-TC200(3). Cultural Anthropology. Study of the origins of mankind and culture. Development of human language, culture and institutions, cross cultural analysis of societies and cultures. Fall. IAI S1 901N.

ANTH-201(3). Physical Anthropology. Focuses on forces producing humans in their present form. The study of evolution, population genetics and the fossil record. (See BIOL-201.) Spring, odd years.

ANTH-207(3). Anthropology of Contemporary Industrial Society. The study of the cultural development and structure of industrial society in both the modern and post-modern worlds to include the impact of technology, consumerism, environment and globalization. Periodically.

ANTH-TC208(3). Economic and Cultural Geography of Developing Nations. A study of developing nations. Analyzes the relationships between culture, environment and society in economic spheres, emphasizing the Third World. Spring.

ANTH-TC210(3). Peoples and Cultures of World Regions. Alternating people/cultures of Latin America, Africa and East Asia. Fall.

ANTH-212(3). Personality and Culture. Studies the relationship among individual personality and symbolic constructs of culture and assesses the universal applicability of Western psychological theories. Periodically.

ANTH-TC283(3). Latin American Cultural and Environmental Geography. The study of how various pre-Columbian and modern Latin cultures interact and adapt to their environment, including resource use, agriculture and development. Prerequisite: ANTH-208 or ANTH 210. Periodically.

ANTH-290(3). Social and Cultural Change. (See SOCL-290.) Periodically.

ANTH-T291(3). Topics in Anthropology. Topics such as globalization, cultural survival of indigenous peoples, Native American cultures, development and readings in anthropology. Periodically.
ANTH-C292(3). 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. (See INTB-292.) Fall, odd years.

ANTH-308(3). Economic Anthropology. A general survey of production, distribution and consumption in both contemporary and prehistorical societies. Included are discussions of economic theory, political economy, world systems theory and operation of transnational corporations. Spring, even years.


Arts Administration (ARAD) Courses

ARAD-110(2) Introduction to the Arts. This course will provide information to the students enrolled in fine and performing arts degree programs. Incoming freshman and transfer students will be mentored in the program through this course. Research into job market studies, resume writing as well as other career-based studies will be accomplished. Present the Benedictine philosophy on the importance of the arts as a liberal study. Fall.

ARAD-326(1.5) Board and Agency Relations. Survey techniques of developing and dealing with boards of directors and board committees within the context of private organizations with a governing board. Covers communication, conflict management and evaluation methods of self and CEO. (See MGMT-526 in the graduate catalog.) Periodically.

ARAD-327(1.5) Funding and Grantsmanship. Teaches the intricacies of generating government support for development of programs important to the operation and expansion of social agencies. Includes program planning, proposal development, grant management and program evaluation. (See MGMT-527 in the graduate catalog.) Winter.

ARAD-360(2) Senior Seminar. The students will analyze the job markets and prepare analyses of current issues in the performing arts. Analyses of demographics effecting the operations and organization of arts programs in the United States will be studied. Students will be required to create a portfolio of personal data to prepare for job searches and will hold mock interviews. Minimum junior standing.

Astronomy Courses

ASTR-105(4) Astronomy. (Adult AABA Program.) Examines astronomical phenomena and concepts, including the solar system, stars, galaxies, planetary motions, atoms and radiation and the origin and evolution of the universe.

Biochemistry (BCHM) Courses

BCHM-C100(3). Impact of Science and Technology on Society. Current scientific issues of personal and national interest, e.g. drugs, nutrition, energy, pollution, etc. Spring. IAI P1 903.

BCHM-C261(3). 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-C261 and 361.) Prerequisite: CHEM-C103 or 247. Each semester and summer. IAI CLS 910; NUR 910.

BCHM-271(4). Nutrition in Health and Disease (See NUTR-241.)

BCHM-290(1-3). Selected Topics in Biochemistry. Current topics in biochemistry. Prerequisite: CHEM-C123 and credit or registration in CHEM-247. Periodically.


BCHM-363(1). Experimental Biochemistry I. A laboratory course which involves protein purification and characterization techniques of amino acids, peptides, nucleic acids, lipids and carbohydrates. Prerequisite: CHEM-236 and registration or credit in BCHM-361. Fall.


BCHM-366(1). Experimental Biochemistry II. Lab course. Involves purification and characterization techniques of enzymes, carbohydrates and organelles with emphasis on metabolism. Prerequisite: Registration or credit in CHEM-236 and BCHM-365. Spring.

BCHM-382(3). Advanced Biochemistry. Selected topics in cellular metabolism, emphasizing human biochemistry and inter-organ relationships, the regulation of cellular processes, including enzymatic reaction mechanisms and kinetics and bioinorganic chemistry. Prerequisite: BCHM-365, CHEM-313. Spring, odd years.
BCHM-390(1-3). Selected Topics. Current advanced topics in biochemistry. Prerequisite: CHEM-247, and registration or credit in BCHM-361 and CHEM-313.


BCHM-393(1-6). Biochemical Internships. Practical experiences in biochemistry under the supervision of the program faculty. Prerequisite: Consent of faculty coordinator. Each semester.

BCHM-395(0-3). Biochemistry Teaching I. Fall.

BCHM-396(0-3). Biochemistry Teaching II. Spring.

BCHM-398(1-3). Biochemical Research I. Required for all biochemistry 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. Prerequisite: Consent of instructor. Fall and summer.

BCHM-399(1-3). Biochemical Research II. Continuation of BCHM-398. Prerequisite: Consent of instructor. Spring and summer.

Biology (BIOL) Courses

BIOL-C101(3). Introduction to Ornamental Horticulture with Lab. A non-majors survey course covering the growth and maintenance of interior and exterior plants. Topics include plant anatomy and reproduction, soils, fertilizer, water, climate, pruning, composting, growth problems, horticultural calculations and beginning principles of landscape design with ornamentals as well as native plants. Lab. Fall.

BIOL-C106(3). Animal Kingdom. A survey course of the animal kingdom, including the invertebrates, covering anatomy, concepts of physiology and classification. Lecture and museum work. For education majors. Fall. IAI L1 902.

BIOL-C108(3). Principles of Biology. Key concepts in biology on which advanced courses will build. Includes transport processes, bioenergetics, molecular biology, genetics, evolution and survey of the animal kingdom. Each semester and summer. IAI L1 900; CLS 902.

BIOL-C109(1). Principles of Biology Laboratory. Methods and techniques of laboratory investigation. Prerequisite: Credit or registration in BIOL-C108 or equivalent. Each semester. IAI L1 900L; CLS 902.

BIOL-113(1). Introduction to Evolution. This is a five-week module course consisting of the first third of the evolution course (BIOL-313). Topics include the Darwinian mechanisms, evidences for evolution, historical development of evolutionary theory and social and legal issues. Prerequisite: Limited to students in the cultural studies minor. Fall.

BIOL-150(3). Biology of Women. This is a course for non-biology majors, dedicated to the biology of gender with special emphasis on the physical structure, function and health concerns of women. The purpose of the course is so that both women and men can understand the complex functioning of the female body and women’s unique health issues. Spring.

BIOL-191(1-3). Selected Topics. Special topics in biology at an introductory level. Periodically.

BIOL-201(3). Physical Anthropology. Focuses on forces producing man in his present form. The study of evolution, population genetics and the fossil record. Prerequisite: none. (See ANTH-201.) Periodically.


BIOL-204(4). Advanced Botany. A detailed study of the plant kingdom using a morphological and anatomical approach. Labs will also include aspects of plant ecology and physiology. Labs will consist of microscope slide work, some dissections and two labs on plant physiology. Lab. Prerequisite: BIOL C108, C109 and CHEM C113. Each semester.

BIOL-205(3). 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: BIOL-C108. Spring.


BIOL-229(3). Biometry. A quantitative approach to biology; emphasis is on the design and analysis of biological experiments. Prerequisite: MATH-S110, BIOL-C108 and C109. Each semester.


BIOL-251(1). Genetics Laboratory. Designed to illustrate principles formulated in BIOL-250. Prerequisite: Registration or credit in BIOL-250. Each semester.


BIOL-256(4). 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. Lab. Prerequisite: BIOL-C108 and CHEM-103 or 123. Periodically.

BIOL-258(4). Human Physiology. The study of the control and function of human organ systems. Lecture only. Prerequisite: CHEM-C103 or C123 and BIOL-C108. Each semester. IAI CLS 904; NUR 904.

BIOL-259(1). Human Physiology Laboratory. Lab uses standard clinical equipment to illustrate principles of physiology. Prerequisite: Registration or credit in BIOL-258. Each semester. IAI CLS 904; NUR 904.

BIOL-C261(3). Principles of Biochemistry. (See BCHM-C261.) Each semester and summer.


BIOL-281(1). ACCA Seminar. Evening seminar dealing with advanced topics in biology. Topics are announced. Each semester. May be repeated.


BIOL-291(1-3). Selected Topics. Special topics in biology chosen for the interests or needs of students. Prerequisite: Consent of instructor. Periodically.

BIOL-292(1-2). Biology Teaching. Prerequisite: Consent of instructor. Each semester.

BIOL-295(1-3). Independent Study. Provides opportunity for advanced major to pursue study in a field of biological interest. Prerequisite: Consent of instructor. Periodically.

BIOL-300(4). 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: BIOL-229, CHEM-C124. (See ENVS-300.) Periodically.

BIOL-305(4). 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: BIOL-256 or 258. (See ENVS-305.) Periodically.

BIOL-313(3). 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 and human evolution. Prerequisite: BIOL-250. Fall.

BIOL-319(4). Histology. The microscopic anatomy of the tissues and organs of vertebrates. Prerequisites: BIOL-203 and 258. Periodically.

BIOL-323(3). Biophysics. (See PHYS-323.) Fall.

BIOL-340(3). 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: Credit or co-registration in CHEM-243, BIOL-250. Each semester.

BIOL-341(1). Cell Molecular Biology Laboratory. Techniques in cell and molecular biology. Prerequisite: Registration or credit in BIOL-340. Each semester.

BIOL-344(3). Gross Dissection Anatomy. Dissection of the human cadaver. Prerequisite: BIOL-203 or 254 and consent of instructor. Periodically.

BIOL-354(3). Immunology. Includes structural and functional components of the immune system, as well as types and control of immune response. Prerequisite: BIOL-340. Spring.

BIOL-360(3). Endocrinology. A study of the structure and function of the endocrine system. Prerequisites: BIOL-258, BCHM-261 or 361. Periodically.

BIOL-363(3). Ecology. Study of the relationships of organisms to one another and to their environment. Includes evolutionary, behavioral, population, community, ecosystem and applied ecology. Prerequisite: BIOL-205 or 250. Each semester.

BIOL-364(1). 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: BIOL-229 and credit or co-registration in BIOL-363. Fall.

BIOL-366(3). 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: BIOL-250. Fall.

BIOL-367(3). 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: BIOL-250. Spring.

BIOL-371(4). Molecular Biology. An advanced study of biochemical processes at the molecular level. Emphasis is placed on regulation of cellular and developmental processes at the level of gene expression. Prerequisite: BIOL-250, 340 and one course in biochemistry. Fall.

BIOL-374(3). Research Techniques in Molecular Biology. A laboratory course designed to acquaint the student with research methodologies and instrumentation in molecular biology. Prerequisite: BIOL-371 and consent of instructor. Each semester.

BIOL-375(1-2). Research Techniques in Field Ecology. A hands-on field experience designed to acquaint students with research methodologies in ecology. Project required. Prerequisite: BIOL-363, 364 and consent of instructor. Each semester and summer.

BIOL-380(1). Advanced Topics in Biology. A comprehensive study of some selected topic or area in a particular field of biology. Topics will be announced. This course may be repeated once for a maximum of two hours of credit. Prerequisite: Consent of instructor and senior standing. Periodically.

BIOL-389(1-3). Biological Research. Research projects which require extensive use of laboratory or museum facilities. Prerequisite: Consent of instructor. Each semester and summer.

BIOL-391(1-3). 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. Periodically.

BIOL-395(1-3). Independent Study. Provides opportunity for advanced major to pursue study in a field of biological interest. Prerequisite: Consent of instructor. Periodically.

BIOL-397(2-3). Biology Internship. Practical experiences in the life sciences under the supervision of the biology faculty. Prerequisite: Consent of faculty.

ACCA Cooperative College Botany Program with the Morton Arboretum

A variety of botany courses are offered for credit in cooperation with the world famous Morton Arboretum in Lisle, Illinois. Detailed information on the program is available from the director at the Arboretum (630) 719-2400. Prerequisite for ALL courses is general botany or BIOL-C108 and C109. Courses scheduled in this program include:

BIOL-230(3). Plant-Soil Relationships. Topics include effects of soil on plant growth and nutrition and how plants affect the soil. Periodically.

BIOL-282(4). Field Botany. An introduction to the theory and practice of vascular plant classification. Field work and a personal collection are required. Summer, odd years.
BIOL-283(3). 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. Spring, odd years.

BIOL-284(3). 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. Fall, even years.

BIOL-285(4). 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. Periodically.

BIOL-287(4). Plant Ecology. Examination of the structure/function relationships of plants to environmental factors, interrelationships of plant communities, laboratory and field techniques and appropriate literature. Summer, even years.

BIOL-288(3). Medical Botany. Study of use of plants in medical practice and as sources of medicine. Spring, even years. Prerequisite: BIOL-C108, C109 and CHEM-123.

BIOL-289(4). 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. Prerequisite: BIOL-C108 and C109. Summer.

Chemistry (CHEM) Courses

CHEM-C101(3). 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. Fall. IAI P1 902.

CHEM-C102(1). Introduction to Chemistry Laboratory. Experiments that explore the principles discussed in CHEM-101. Prerequisite: Registration or credit in CHEM-C101. Fall. IAI P1 902L.

CHEM-C103(3). Introduction to Organic Chemistry and Biochemistry. The structure, nomenclature and reaction of organic compounds are applied to the study of biochemistry. Prerequisite: CHEM-C101 or C123. Spring. IAI P1 904.

CHEM-C104(1). Introduction to Organic Chemistry and Biochemistry Laboratory. Experiments examine the applications of organic and biochemical theory. Prerequisite: CHEM-C102 and registration or credit in CHEM-C103. Spring. IAI P1 904L.

CHEM-C107(3). 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. Spring.

CHEM-C113(3). General Chemistry I. Principles of stoichiometry, thermochemistry, gas laws, electronic structure and bonding, periodicity and phase-related properties. Prerequisite: one year of high school chemistry or CHEM-C101; credit, proficiency or co-registration in MATH-110. Each semester and summer. IAI P1 902; BIO 906; EGR 961.

CHEM-C114(1). General Chemistry I Laboratory. Separations, quantitative measurements and transfers and spectrochemical techniques involving organic and inorganic systems. Prerequisite: Registration or credit in CHEM-C113. Each semester and summer. IAI P1 902L; BIO 906; EGR 961.

CHEM-C115(1). General Chemistry I Laboratory. Intended for chemistry and biochemistry majors. A project-based laboratory course which covers separations, quantitative measurements and transfers, spectrochemical techniques involving inorganic and biochemical systems, calorimetry and titrimetry. Prerequisite: credit or co-registration in CHEM-113. Fall.

CHEM-C123(3). General Chemistry II. Principles of equilibrium, kinetics, electrochemistry, acid/base and descriptive inorganic chemistry. Prerequisite: CHEM-C113. Spring and summer. IAI BIO 907.
CHEM-C124(1). General Chemistry II Laboratory. Titrimetry, inorganic synthesis, qualitative analysis and instrumentation for pH, kinetics and electrochemical processes. Prerequisite: CHEM-C114 and registration or credit in CHEM-C123. Spring and summer. IAI BIO 907.

CHEM-C125(1). General Chemistry II Laboratory. Intended for chemistry and biochemistry majors. A project-based laboratory course which covers titrimetry, inorganic synthesis and instrumentation for separations, pH, electrochemical processes and elemental analysis. Prerequisite: CHEM-114 or CHEM-115 and credit or co-registration in CHEM-123. Spring.

CHEM-235(3). Chemical Analysis I. Statistical analysis of data, and the theory and applications of instrumental analysis including spectroscopy, separations and mass spectrometry. Lab includes instrumental optimization and operation of X-ray, fluorescence, UV, visible, IR, NMR, AA, GC, HPLC and mass spec. Prerequisite: CHEM-C123 and C124. Fall.

CHEM-236(3). Chemical Analysis II. Theory and applications of gravimetric, titrimetric, electrochemical, thermal, automated and computer assisted methods analysis. Laboratory includes quantitative analysis procedures that exemplify lecture topics. Prerequisite: CHEM-235. Spring.

CHEM-242(3). Organic Chemistry I. Study of aliphatic, alicyclic and aromatic compounds, with an emphasis on reaction mechanisms and stereochemistry. Intended for physical and biological science students. Prerequisite: CHEM-C103 or C123. Fall and summer. IAI BIO 908; EGR 963.

CHEM-243(1). Organic Chemistry I Laboratory. Introduction to organic and biochemical laboratory techniques, separation, analysis, and synthesis. For non-chemistry majors. Prerequisite: Registration or credit in CHEM-242. Fall and summer. IAI BIO 908; EGR963.

CHEM-244(1). Organic Chemistry I Laboratory. Application of physical/organic laboratory techniques for the separate analysis and synthesis of organic compounds. For biochemistry and chemistry majors, or those seeking ACS certification. Prerequisite: Registration or credit in CHEM-235 and 242. Fall.


CHEM-248(1). Organic Chemistry II Laboratory. Qualitative characterization of organic compounds and the synthesis and isolation of organic and biochemical products. For non-chemistry majors. Prerequisite: CHEM-243 and registration or credit in CHEM-247. Spring and summer. IAI BIO 909; EGR 964.

CHEM-249(1). Organic Chemistry II Laboratory. Qualitative characterization, synthesis and isolation of organic compounds. For biochemistry and chemistry majors and research students seeking ACS certification. Prerequisite: CHEM-244 and registration or credit in CHEM-247. Spring.


CHEM-275(1). Qualitative Organic Analysis. The separation, identification and characterization of unknown organic compounds based on physical state, elemental analysis, solubility, spectral analysis (IR and UV/visible), chemical tests for functional groups and conversion to solid derivatives. NMR will be used for selected unknowns. Prerequisite: CHEM-249 and 272. Fall.

CHEM-290(1-3). Selected Topics in Chemistry. Current topics in chemistry. Prerequisite: CHEM-C123 and registration or credit in CHEM-247. Periodically.

CHEM-313(3). Physical Chemistry I. Introduction to chemical thermodynamics, phase and ionic equilibria. Prerequisites: CHEM-C123, PHYS-C118 or C212 and registration or credit in MATH-211. Fall.

CHEM-314(1). Physical Chemistry I Laboratory. Applies principles discussed in CHEM-313. Prerequisites: Registration or credit in CHEM-313. Fall.

CHEM-315(3). Physical Chemistry II. Introduction to electrochemistry, chemical kinetics, group theory and quantum mechanics. Prerequisite: CHEM-313 and MATH-212. Spring.

CHEM-316(1). Physical Chemistry II Laboratory. Applies principles discussed in CHEM-313. Prerequisite: CHEM-314 and registration or credit in CHEM-236 and 315. Spring.

CHEM-320(3). Inorganic Chemistry. Principles of structure and bonding, coordination chemistry, organometallic chemistry and descriptive chemistry. Prerequisite: CHEM-236, 247, and registration or credit in CHEM-313. Fall.

CHEM-321(1). Inorganic Chemistry Laboratory. Applications of the topics discussed in CHEM-320 including vacuum-line manipulation, inert atmosphere techniques, spectroscopy and separation methods. Prerequisite: CHEM-249, 272, 320. Spring, even years.
CHEM-335(3). 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: CHEM-236, 247 and registration or credit in CHEM-313. Fall, even years.

CHEM-340(3). Advanced Organic Chemistry. Selected topics in physical organic chemistry with emphasis on reaction mechanisms, reaction kinetics, stereochemistry, conformational analysis, photochemistry and structural theory. Prerequisite: CHEM-313. Spring, even years.

CHEM-357(3). Quantum Mechanics. Topics in quantum mechanics, surface phenomena, solid state and recent developments in physical chemistry. Prerequisite: CHEM-315 or PHYS 213. Spring, odd years.

CHEM-381(3). Industrial Chemistry. Selected industrial processes and applications, including management and economics; industrial organic and inorganic, including synthesis, properties and characterization of common polymers. Prerequisite: CHEM-247 and registration or credit in CHEM-313. Fall, odd years.

CHEM-390(1-3). Selected Topics in Chemistry. Current advanced topics in Chemistry. Prerequisite: CHEM-247 and credit or registration in CHEM-313. Periodically.


CHEM-393(1-6). Chemical Internship. Practical experiences in chemistry under the supervision of the chemistry program. Prerequisite: Consent of faculty coordinator. Periodically.

CHEM-395(0-2). Chemistry Teaching I. Prerequisite: Consent of instructor. Fall and summer.

CHEM-396(0-2). Chemistry Teaching II. Prerequisite: Consent of instructor. Spring and summer.

CHEM-398(1-3). Chemical Research I. 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 is a course objective. Prerequisite: Consent of instructor. Fall and summer.

CHEM-399(1-3). Chemical Research II. Continuation of CHEM-398(1-3). Prerequisite: Consent of instructor. Spring and summer.

Clinical Laboratory Science (CLSC) Courses

CLSC-390(1-9). 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 cell series. Includes lab. Consent of instructor.

CLSC-391(1-9). Clinical Microbiology. The various culture techniques involved in identification of normal human flora, the study and isolation techniques of aerobic and anaerobic pathogens and their relationship to disease. Includes lab. Consent of instructor.

CLSC-392(1-9). 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. Consent of instructor.

CLSC-393(1-3). Immunology/Serology. 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. Consent of instructor.


CLSC-396(1-3). Coagulation. Study of the coagulation mechanisms found in the normal and disease states, coagulation testing procedures and their use in diagnosing hemorrhagic diseases. Includes lab. Consent of instructor.

CLSC-397(1-4). Special Topics. Designed to broaden the background of the medical technology students. Consent of instructor.

Affiliated Hospital:
Hines V.A. Hospital - Hines, Illinois


**Communication Arts**

**COMM (COMM) Courses**

**COMM-150(3). Introduction to Communication Arts.** A practical and theoretical introduction to the field of communication arts. Spring. IAI MC 911.

**COMM-191(3). Topics.** Study of aspects of communication on the introductory level not listed as regular course offerings. May be repeated.

**COMM-207(3). Editing for Print.** Introduction to the principles and practices of editing for magazines and books. Prerequisite: RHET-S101. Spring. IAI MC 914.

**COMM-208(3). Print Media Layout and Design.** An introduction to the theory and practices of print media production utilizing computer technology. Fall.

**COMM-209(3). Newswriting and Reporting.** Principles and practice in gathering and writing news as well as preparing copy for publication. Prerequisite: RHET-S101. Fall. IAI MC 919.

**COMM-C250(3). Masters of the American Cinema.** A historical study of representative fiction film makers from D.W. Griffith to Spike Lee. IAI F2 905.

**COMM-C251(3). History of Film.** A cross-cultural study of the development of the cinema from its late 19th century origins to the present. IAI F2 905.

**COMM-252(3). Technical Writing.** A practical course designed to train students for various fields that require technical writing skills – engineering, computer science, industry, etc. Prerequisite: RHET-S101. Periodically.

**COMM-253(3). Public Relations Writing.** Focuses on writing for print media. Students prepare news releases, newsletters and feature stories. Prerequisite: RHET-S101. Fall.

**COMM-254(3). 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. Prerequisite: RHET-S101. IAI MC 917.

**COMM-255(3). Television Production.** Laboratory course introducing students to the technical and aesthetic principles utilized in preparing programming for television. Fall. IAI MC 916.

**COMM-C256(3). International Film.** A study of the film form as seen in the most important films produced outside the United States. Periodically.

**COMM-263(3). Advertising Copywriting.** Covers the fundamentals of writing copy and designing advertising for all forms of print and electronic media. Prerequisite: RHET-101. Periodically.

**COMM-289(3). Mass Persuasion.** A critical investigation of the method of commercial and political propaganda. Prerequisite: RHET-S102. Periodically.

**COMM-290(3). Images of Men and Women in the Mass Media.** A critical investigation of how we are influenced in the way we think about gender and gender relationships. Prerequisite: RHET-S102.

**COMM-291(3). Topics.** Study of aspects of communication on the intermediate level not listed as regular course offerings. May be repeated. Prerequisite: RHET-S102.

**COMM-295(3). Independent Study.** Designed for the student who wishes to explore aspects of communications not normally offered in the regular curriculum. Prerequisite: Approval of department chair. May be repeated.

**COMM-297(2-6). Internship.** Practical experience in public relations, electronic media, journalism or advertising supervised by the communication arts department. Prerequisites: consent of internship coordinator, department chair, and at least 3.0 G.P.A. Up to three internship hours can be applied toward the 39 hour major requirement. Up to six hours may apply toward the 120 hours for graduation.

**COMM-C316(3). Advanced Television Production.** Emphasis on development of directing and post-production skills, with focus on aesthetic and technical principles. Prerequisites: COMM-254 and 255. Spring.

**COMM-317(3). Mass Media Law and Ethics.** Examines the many legal and ethical issues related to the mass media. Prerequisite: RHET-S102. Fall.
COMM-337(3). 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. Periodically.

COMM-353(3). Advanced Writing, Editing and Page Design for Public Relations.
Focuses on advanced writing and editing for public relations and on print media design and layout. Students work on real public relations projects where they serve as advanced writers, editors and page designers in the production of newsletters, brochures and other such print media materials. Students also compile a professional portfolio at the end of the class. Prerequisite: COMM-207, 208, 253 or consent of instructor. Periodically.

COMM-381(3). Multimedia Production for the Web.
Students experiment with a variety of web-based materials utilizing applications from text and visual media. Prerequisite: RHET-S102. Periodically.

COMM-385(3). Television and Society.
An in-depth investigation of the television industry and its impact on American and world culture. Prerequisite: RHET-S102. Periodically.

COMM-386(3). Media and Government.
Examines major theoretical models of a central problem in mass communications from historical and cross-cultural perspectives. Prerequisite: RHET-S102. Periodically.

COMM-387(3). 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: RHET-S102. Periodically.

COMM-389(3). Mass Persuasion.
A critical investigation of the methods of commercial and political propaganda. Prerequisite: RHET-S102. Periodically.

COMM-390(3). Images of Men And Women In the Mass Media.
A critical investigation of how we are influenced in the way we think about gender and gender relationships. Prerequisite: RHET-S102. Periodically.

COMM-391(3). Topics.
Study of aspects of communications on the advanced level not covered in the above course offerings. Prerequisite: COMM-207, 208, RHET-S102.

COMM-392(3). Senior Project.
Advanced applications in a focused area of communications beyond other upper level courses. Requirements: senior standing, completion of or concurrent enrollment in communications courses totaling 39 hours, consent of instructor and department chair and approval of proposal prior to semester in which the student is enrolled. Senior Project does not count towards the 39 hours required for a degree in communication arts.

COMM-395(1-3). 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, approval of department chair, GPA of 3.5 in major. May be repeated.

Computer Science (CMSC) Courses

CMSC-100(3). 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. Credit will not be granted for both CMSC-100 and CMSC-C105. Prerequisite: None. Each semester.

Introduction to word processing using Microsoft Word for Windows. For non-majors. Credit will not be granted for both CMSC-100 and CMSC-101. Prerequisite: None.

CMSC-102(1). Introduction to Spreadsheets.
Introduction to spreadsheets using Microsoft Excel for Windows. For non-majors. Credit will not be granted for both CMSC-100 and CMSC-102. Prerequisite: None.

CMSC-103(1). Introduction to Database Management.
Introduction to database management using Microsoft Access for Windows. For non-majors. Credit will not be granted for both CMSC-100 and CMSC-103. Prerequisite: None.

CMSC-C105(3). Microcomputer Applications to Teaching.
Introduction to computing using the microcomputer. Use of software packages for word processing, file management, spreadsheets, graphics and management in teaching. Evaluation, selection and use of software and hardware for instructional support. For non-majors. Credit will not be granted for both CMSC-100 and CMSC-C105. Prerequisite: None. Spring.

CMSC-C120(3). Problem Solving with Computers.
Intended for all students, without any previous programming experience, who need to gather/generate, analyze/process and display/graph data. Students will be introduced to a programming language (Visual Basic) and spreadsheets (Microsoft Excel). A strong emphasis will be placed on using the computer as a tool to implement problem-solving techniques. Not for major credit. Prerequisite: None. Each semester.
CMSC-C200(4). Introduction to Computer Science. An introduction to program design, algorithm development and implementation with the C++ programming language. A review of elementary programming structures. Top-down design and pseudocode. Subprograms, non-elementary data structures, text and file processing, pointers and linked structures. Emphasis on the software implementation of a substantial problem. This course is intended for students with prior programming experience or for highly-motivated students with a proven history of academic success. Each semester. IAI CS 911.

CMSC-205(4). Data Structures and Algorithms. The study and implementation of internal data structures and access techniques for arrays, lists, stacks, queues, linked lists, trees and graphs. Introduction to object-oriented programming. Algorithm analysis, recursion and internal sort algorithms. Programming in C++. Prerequisite: CMSC-C200. Each semester. IAI CS 912.

CMSC-220(4). Computer Organization and Architecture. 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: CMSC-205. Fall. IAI CS 922.


CMSC-310(3). Operating Systems. Process and thread management, multiprocessing, kernels and microkernels, mutual exclusion, semaphores, monitors, message passing, deadlock, memory management, paging, segmentation, interprocessor communication and multithreading. Prerequisites: CMSC-220 and 300. Fall, even years.

CMSC-315(3). Formal Languages 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-300. Periodically.

CMSC-330(3). Database Design. 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: CMSC-300. Spring, odd years.


CMSC-365(3). Computer Networks and Data Communication. (See CIS-365.)

CMSC-370(3). Algorithm Design and Analysis. Methods of designing 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-300. Spring, even years.

CMSC-374(3). Object-Oriented Programming. Investigation of object-oriented programming to partition a problem into solvable tasks. Includes classes, inheritance, binding, persistence and operator overloading. Students are required to write their own classes as well as use Microsoft Foundation Classes to create graphic user interfaces. Prerequisite: CMSC-300. Fall, odd years.

CMSC-375(3). 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-300. Fall, odd years.

CMSC-385(3). Theory of Programming Languages. Organization of programming languages analyzed through representative languages. Introduction to concepts of program specification and analysis. Includes type issues, scope, subprograms, run-time behavior and models of programming. Prerequisite: CMSC-300. Fall, odd years.

CMSC-390(3)-394(3). Selected Topics. Various topics to supplement the curriculum. Recent topics have been artificial intelligence, computer graphics and client/server computing. Prerequisite: Dependent upon the topic.

CMSC-396(1). ACCA Seminar. Evening seminar at Associated Colleges of Chicago Area schools dealing with advanced topics in computer science. Topics are announced in advance. May be repeated. Fall.

CMSC-397(1-3). Undergraduate Project. Independent work on a project supervised by a faculty member in the program. Prerequisite: Consent of instructor.

CMSC-398(3). Senior Project. Independent work on a project supervised by a faculty member in the program. Students must have completed 25 hours of computer science coursework. Prerequisite: Consent of instructor.

CMSC-399(3-6). Internship. Prerequisite: GPA of 2.5 in computer science coursework and consent of instructor.