

CS U213	Fundamentals of Computer Science 2	4 SH
with CS U214	Lab for CS U213	1 SH
IS U300	Principles of Information Science	4 SH

INFORMATION SCIENCE ELECTIVES

Complete two courses from the following list:

CS U430	Database Design	4 SH
IS U300 to IS U699		

GPA REQUIREMENT

2.000 GPA required in the minor

Dual Majors

The college offers dual majors with biology, business administration, cognitive psychology, mathematics, multimedia studies, music with concentration in music technology, and physics, as well as a dual major in computer science and information science. Each of the dual majors offers the opportunity for intense study in two disciplines with appropriate breadth in the liberal arts. Students take eight to twelve courses in each discipline and two or three integrative courses that bind the disciplines together. These programs offer an excellent educational opportunity for the ambitious student.

BS in Computer Science and Information Science

ENGLISH REQUIREMENT

Complete the following two courses:

ENG U111	College Writing	4 SH
ENG U302	Advanced Writing in the Technical Professions	4 SH

With prior permission, the following course may be substituted for ENG U302:

ENG U301	Advanced Writing in the Disciplines	4 SH
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A grade of C or higher is required in ENG U111 and in the advanced writing course.

COMPUTER SCIENCE MAJOR REQUIREMENTS

Computer Science Overview

Freshmen or freshman transfers complete the following two courses:

CS U221	Computer/Information Science Overview 1	1 SH
CS U222	Computer/Information Science Overview 2	1 SH

Upper-level transfer students must complete the following course:

CS U223	Computer/Information Science Co-op Preparation	1 SH
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and must also make up 1 semester hour of credit.

Computer Science Fundamental Courses

Complete the following three courses, with corresponding labs, as indicated. A grade of C– or higher is required in each course:

CS U200	Discrete Structures	4 SH
CS U211	Fundamentals of Computer Science 1	4 SH
with CS U212	Lab for CS U211	1 SH

CS U213	Fundamentals of Computer Science 2	4 SH
with CS U214	Lab for CS U213	1 SH

Computer Science Required Courses

Complete the following eight courses:

CS U370	Object-Oriented Design	4 SH
CS U380	Computer Organization	4 SH
CS U390	Theory of Computation	4 SH
CS U430	Database Design	4 SH
CS U480	Systems and Networks	4 SH
CS U660	Programming Languages	4 SH
CS U670	Software Development	4 SH
CS U690	Algorithms and Data	4 SH

INFORMATION SCIENCE COURSES

Information Science Required Courses

Complete the following five courses:

IS U300	Principles of Information Science	4 SH
IS U570	Human Computer Interaction	4 SH
IS U580	Empirical Research Methods	4 SH
IS U691	Information Science Field Study	1 SH
IS U692	Information Science Senior Project	5 SH

Information System Design and Development

Complete the following course:

IS U470	Information System Design and Development	4 SH
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Managing Information

Complete the following course:

MIS U305	Information Resource Management	4 SH
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INFORMATION SCIENCE BEHAVIORAL SCIENCE FOUNDATIONS

Sociology

Complete the following course:

SOC U528	Computers and Society	4 SH
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Psychology

Complete the following course:

PSY U101	Foundations of Psychology	4 SH
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Economics

Complete the following course:

ECN U116	Principles of Microeconomics	4 SH
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Organizational Behavior

Complete the following course:

HRM U209	Organizational Behavior	4 SH
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MATHEMATICS AND SCIENCE REQUIREMENTS

Calculus and Statistics

Complete the following two courses. A grade of C– or higher is required in MTH U241:

ECN U350	Statistics	4 SH
MTH U241	Calculus 1 for Science and Engineering	4 SH

Symbolic Logic

Complete the following course with a grade of C– or higher:

PHL U215	Symbolic Logic	4 SH
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Linear Algebra

Complete the following course:

MTH U371 Linear Algebra 4 SH

Science Elective

Complete one course, with corresponding lab if applicable, from the natural world context option or the science option.

NATURAL WORLD CONTEXT OPTION

Excluding CS U101 and CS U211, courses in the MTH department, and courses intended for students in specific colleges, complete one course with any corresponding labs from the list “Approved Courses: Methods of Inquiry—Natural World Context” on page 53.

SCIENCE OPTION

Complete one course with corresponding lab and recitation from one of the following groups:

BIOLOGY

BIO U111 General Biology 1 4 SH
with BIO U112 Lab for BIO U111 1 SH

CHEMISTRY

CHM U101 General Chemistry for Health Sciences 4 SH
with CHM U102 Lab for CHM U101 1 SH
CHM U151 General Chemistry for Engineers 4 SH
with CHM U152 Lab for CHM U151 1 SH

GEOLOGY

GEO U200 Dynamic Earth 4 SH
with GEO U201 Lab for GEO U200 1 SH
GEO U220 History of Earth and Life 4 SH
with GEO U221 Interpreting Earth History 1 SH

PHYSICS

PHY U145 Physics for Life Sciences 1 4 SH
with PHY U146 Lab for PHY U145 1 SH
PHY U151 Physics for Engineering 1 4 SH
with PHY U152 Lab for PHY U151 1 SH
PHY U161 Physics 1 4 SH
with PHY U162 Lab for PHY U161 1 SH

DIVERSITY

Satisfy the diversity course option, the residence-abroad option, the international co-op/study-abroad option, or the community service option.

Diversity Course Option

Complete one course from the list “College of Computer and Information Science Approved Courses: Diversity” on page 203.

Residence-Abroad Option

Provide documentation that you lived in a country other than the United States or Canada for at least two years after your tenth birthday.

International Co-Op/Study-Abroad Option

Participate in a six-month international co-op assignment or study abroad in a country other than Canada.

Community Service Option

Complete one hundred hours of preapproved diversity-related community service and file a report describing the work completed.

ARTS AND SCIENCES CORE REQUIREMENTS

Complete two courses from either the foreign language option or from the arts, humanities, and social sciences option.

Foreign Language Option

Complete two courses in the same language with a grade of C or higher. Proficiency at elementary-level two or higher is required.

Arts, Humanities, and Social Sciences Option

Complete two courses from the following lists. Note that the following courses are unacceptable:

PHL U114, PHL U115, PHL U215, and SOC U528; any courses from the BIO, CHM, GEO, MTH, or PHY departments; and any courses that are explicitly required for the major.

“Approved Courses: Methods of Inquiry—Arts Context” on page 52.

“Approved Courses: Methods of Inquiry—Humanities Context” on page 52.

“Approved Courses: Methods of Inquiry—Social World Context” on page 53.

“College of Computer and Information Science Approved Courses: Diversity” on page 203.

“Approved Courses: Historical, Ethical, and Aesthetic Perspectives” on page 54.

“Approved Courses: Analysis” on page 55.

ELECTIVES OUTSIDE COMPUTER AND INFORMATION SCIENCE

Complete two courses from any department provided the courses are not more elementary than the courses taken to satisfy other requirements in the program.

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION**UNIVERSITY-WIDE REQUIREMENTS**

134 total semester hours required

Minimum 2.000 GPA required

BS in Computer Science and Biology**ENGLISH REQUIREMENT**

Complete the following two courses:

ENG U111 College Writing 4 SH
ENG U302 Advanced Writing in the Technical Professions 4 SH

With prior permission, the following course may be substituted for ENG U302:

ENG U301 Advanced Writing in the Disciplines 4 SH

A grade of C or higher is required in ENG U111 and in the advanced writing course.

BS CORE REQUIREMENTS

Courses from your major cannot count toward the core.

Mathematics

Complete the following two calculus courses and the probability and statistics course. A grade of C– or higher is required in the calculus courses:

MTH U151	Calculus and Differential Equations for Biology 1	4 SH
MTH U152	Calculus and Differential Equations for Biology 2	4 SH
MTH U481	Probability and Statistics	4 SH

Methods of Inquiry**LOGIC**

Complete the following course with a grade of C– or higher:

PHL U215	Symbolic Logic	4 SH
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ARTS, HUMANITIES, OR SOCIAL WORLD CONTEXT

Complete one course from one of the following contexts:

“Approved Courses: Methods of Inquiry—Arts Context” on page 52.

“Approved Courses: Methods of Inquiry—Humanities Context” on page 52.

“Approved Courses: Methods of Inquiry—Social World Context” on page 53.

Diversity

Complete one course from the list “College of Computer and Information Science Approved Courses: Diversity” on page 203.

Historical, Ethical, and Aesthetic Perspectives

Complete one course from the list “Approved Courses: Historical, Ethical, and Aesthetic Perspectives” on page 54.

Analysis

Complete the following course:

SOC U528	Computers and Society	4 SH
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Required General Electives

Complete three general electives.

COMPUTER SCIENCE COURSES**Computer Science Overview**

Freshmen or freshman transfers complete the following two courses:

CS U221	Computer/Information Science Overview 1	1 SH
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or BIO U100 College: An Introduction 1 SH

CS U222	Computer/Information Science Overview 2	1 SH
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or BIO U106 Introduction to Experiential Education 1 SH

Upper-level transfer students must complete the following course:

CS U223	Computer/Information Science Co-op Preparation	1 SH
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and must also make up 1 semester hour of credit.

Computer Science Fundamental Courses

Complete the following five courses with corresponding labs with a grade of C– or higher:

CS U200	Discrete Structures	4 SH
CS U211	Fundamentals of Computer Science 1	4 SH
with CS U212	Lab for CS U211	1 SH
CS U213	Fundamentals of Computer Science 2	4 SH
with CS U214	Lab for CS U213	1 SH
CS U370	Object-Oriented Design	4 SH
CS U430	Database Design	4 SH

Computer Science Integrative Courses

Complete the following two courses:

CS U390	Theory of Computation	4 SH
CS U690	Algorithms and Data	4 SH

Computer Science Elective Course

Complete one upper-division computer science course. With adviser approval, a directed study course, project study course, or appropriate graduate-level course may also be taken as a computer science elective.

CS U380 to CS U999

IS U535	Information Retrieval	4 SH
IS U570	Human Computer Interaction	4 SH

BIOLOGY COURSES**Required Biology**

Complete the following three courses with corresponding labs:

BIO U111	General Biology 1	4 SH
with BIO U112	Lab for BIO U111	1 SH
BIO U113	General Biology 2	4 SH
with BIO U114	Lab for BIO U113	1 SH
BIO U301	Genetics and Molecular Biology	4 SH
with BIO U302	Lab for BIO U301	1 SH

Biology Integrative Courses

Complete one of the following courses with corresponding lab where applicable:

BIO G308	Bio IT Methods 1—Genome and Proteome Analysis	4 SH
BIO G309	Bio IT Methods 2—Protein Structure and Systems Biology	4 SH
BIO U521	Experimental Design Marine Ecology	4 SH
with BIO U522	Lab for BIO U521	1 SH

Chemistry Courses

Complete the following four courses with corresponding labs:

CHM U211	General Chemistry 1	4 SH
with CHM U212	Lab for CHM U211	1 SH
CHM U214	General Chemistry 2	4 SH
with CHM U215	Lab for CHM U214	1 SH
CHM U311	Organic Chemistry 1	4 SH
with CHM U312	Lab for CHM U311	1 SH
CHM U313	Organic Chemistry 2	4 SH
with CHM U314	Lab for CHM U313	1 SH

Intermediate and Advanced Biology Electives

Complete two courses (8–10 semester hours) from the following list:

BIO U311 to BIO U699

Experiential Education

An activity related to the major and approved by the experiential education adviser must be completed before the capstone. Among the possibilities are co-op experience, junior/senior honors thesis, research project in a faculty lab, study abroad with submission of a paper, 120 hours of supervised volunteer work in a related area, participation in the Three Seas Program with submission of a project paper, or other approved experiences.

Biology Capstone

Complete the following course:

BIO U701 Biology Capstone 4 SH

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CS and math/science courses

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION**UNIVERSITY-WIDE REQUIREMENTS**

140 total semester hours required
Minimum 2.000 GPA required

BS in Computer Science and Business Administration**ENGLISH REQUIREMENT**

Complete the following two courses:

ENG U111 College Writing 4 SH
ENG U302 Advanced Writing in the Technical Professions 4 SH

With prior permission, the following course may be substituted for ENG U302:

ENG U301 Advanced Writing in the Disciplines 4 SH
A grade of C or higher is required in ENG U111 and in the advanced writing course.

DIVERSITY

Satisfy the diversity course option, the residence-abroad option, the international co-op/study-abroad option, or the community service option.

Diversity Course Option

Complete one course from the list "College of Computer and Information Science Approved Courses: Diversity" on page 203.

Residence-Abroad Option

Provide documentation that you lived in a country other than the United States or Canada for at least two years after your tenth birthday.

International Co-Op/Study-Abroad Option

Participate in a six-month international co-op assignment or study abroad in a country other than Canada.

Community Service Option

Complete one hundred hours of preapproved diversity-related community service and file a report describing the work completed.

BS CORE REQUIREMENTS

Courses from your major cannot count toward the core.

Methods of Inquiry**LOGIC**

Complete the following course with a grade of C– or higher:

PHL U215 Symbolic Logic 4 SH

ECONOMICS

Complete the following two courses:

ECN U115 Principles of Macroeconomics 4 SH

ECN U116 Principles of Microeconomics 4 SH

Analysis

Complete the following course:

SOC U528 Computers and Society 4 SH

Mathematics

Complete one of the following courses:

MTH U131 Calculus for Business and Economics 4 SH

MTH U241 Calculus 1 for Science and Engineering 4 SH

Required General Electives

Complete 12 semester hours of general electives (CBA U101, if taken, counts as a general elective).

COMPUTER SCIENCE COURSES**Computer Science Overview**

Freshmen or freshman transfers complete the following two courses:

CS U221 Computer/Information Science Overview 1 1 SH

CS U222 Computer/Information Science Overview 2 1 SH

Upper-level transfer students must complete the following course:

CS U223 Computer/Information Science Co-op Preparation 1 SH

and must also make up 1 semester hour of credit.

Computer Science Fundamental Courses

Complete the following three courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

CS U200 Discrete Structures 4 SH

CS U211 Fundamentals of Computer Science 1 4 SH

with CS U212 Lab for CS U211 1 SH

CS U213 Fundamentals of Computer Science 2 4 SH

with CS U214 Lab for CS U213 1 SH

Computer Science Required Courses

Complete the following two courses:

CS U370 Object-Oriented Design 4 SH

CS U430 Database Design 4 SH

Computer Science Senior Seminar

Complete the following course:

CS U600 Senior Seminar 1 SH

Integrative Course

Complete the following course:

MIS U301 Management Information Systems 4 SH

Additional Requirements

Complete the following two courses:

CS U380	Computer Organization	4 SH
CS U480	Systems and Networks	4 SH

and complete three upper-division CS/IS electives from the following list. With adviser approval, directed study courses, project study course, and appropriate graduate-level courses may also be taken as computer science electives.

CS U380 to CS U999		
IS U570	Human Computer Interaction	4 SH
IS U535	Information Retrieval	4 SH

BUSINESS COURSES**Required Business Courses**

Complete the following seven courses:

ACC U201	Financial Accounting and Reporting	4 SH
ACC U301	Managerial Accounting	4 SH
FIN U201	Financial Management	4 SH
HRM U201	Organizational Behavior	4 SH
MGT U501	Strategy in Action	4 SH
MKT U201	Introduction to Marketing	4 SH
MSC U201	Business Statistics	4 SH

BUSINESS CONCENTRATION

Complete a business concentration other than management information systems from the list “BSBA Business Concentrations” on pages 186–187.

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CS and IS courses.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION**UNIVERSITY-WIDE REQUIREMENTS**

132 total semester hours required

Minimum 2.000 GPA required

BS in Computer Science and Cognitive Psychology**ENGLISH REQUIREMENT**

Complete the following two courses:

ENG U111	College Writing	4 SH
ENG U302	Advanced Writing in the Technical Professions	4 SH

With prior permission, the following course may be substituted for ENG U302:

ENG U301	Advanced Writing in the Disciplines	4 SH
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A grade of C or higher is required in ENG U111 and in the advanced writing course.

BS CORE REQUIREMENTS

Courses from your major cannot count toward the core.

Methods of Inquiry

LOGIC

Complete the following course with a grade of C– or higher:

PHL U215	Symbolic Logic	4 SH
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ARTS, HUMANITIES, OR SOCIAL WORLD CONTEXT

Complete one course from one of the following lists:

“Approved Courses: Methods of Inquiry—Arts Context” on page 52.

“Approved Courses: Methods of Inquiry—Humanities Context” on page 52.

“Approved Courses: Methods of Inquiry—Social World Context” on page 53.

Diversity

Complete one course from the list “College of Computer and Information Science Approved Courses: Diversity” on page 203.

Historical, Ethical, and Aesthetic Perspectives

Complete one course from the list “Approved Courses: Historical, Ethical, and Aesthetic Perspectives” on page 54.

Analysis

Complete the following course:

SOC U528	Computers and Society	4 SH
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GENERAL ELECTIVES**Required General Electives**

Complete either four or five general electives so that the total number of general electives and integrative courses (used to satisfy the integrative course requirement below) is six.

MATHEMATICS REQUIREMENT**Calculus**

Complete the following course:

MTH U241	Calculus 1 for Science and Engineering	4 SH
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COMPUTER SCIENCE COURSES**Computer Science Overview**

Freshmen or freshman transfers must complete the following two courses:

CS U221	Computer/Information Science Overview 1	1 SH
CS U222	Computer/Information Science Overview 2	1 SH

Upper-level transfer students must complete the following course:

CS U223	Computer/Information Science Co-op Preparation	1 SH
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and must also make up 1 semester hour of credit.

Computer Science Fundamental Courses

Complete the following three courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

CS U200	Discrete Structures	4 SH
CS U211	Fundamentals of Computer Science 1	4 SH
with CS U212	Lab for CS U211	1 SH
CS U213	Fundamentals of Computer Science 2	4 SH
with CS U214	Lab for CS U213	1 SH

Computer Science Required Courses

Complete the following four courses:

CS U370	Object-Oriented Design	4 SH
CS U390	Theory of Computation	4 SH
CS U520	Artificial Intelligence	4 SH
IS U570	Human Computer Interaction	4 SH

Computer Science Senior Seminar

Complete the following course:

CS U600 Senior Seminar 1 SH

Integrative Courses

Complete either the following software development course or two junior/senior project courses.

SOFTWARE DEVELOPMENT

Complete the following course:

CS U670 Software Development 4 SH

JUNIOR/SENIOR PROJECT

Complete the following two courses:

PSY U970 Junior/Senior Project 1 4 SH

PSY U971 Junior/Senior Project 2 4 SH

Computer Science Elective Courses

Complete two upper-division computer science courses. With adviser approval, directed study courses, project study courses, and appropriate graduate-level courses may also be taken as computer science electives.

CS U380 to CS U999

IS U535 Information Retrieval 4 SH

PSYCHOLOGY COURSES**Required Courses**

Complete the following four courses with corresponding labs when offered:

PSY U101 Foundations of Psychology 4 SH

PSY U320 Statistics in Psychological Research 4 SH

with PSY U321 Lab for PSY U320 1 SH

PSY U464 Psychology of Language 4 SH

PSY U466 Cognition 4 SH

Advanced Psychology

Complete one of the following courses:

PSY U452 Introduction to Sensation and Perception 4 SH

PSY U458 Psychobiology 4 SH

Laboratory in Psychology

Complete one of the following courses:

PSY U610 Laboratory in Psycholinguistics 4 SH

PSY U612 Laboratory in Cognition 4 SH

PSY U622 Laboratory in Sensation and Perception 4 SH

Seminar in Psychology

Complete one of the following courses:

PSY U658 Seminar in Psycholinguistics 4 SH

PSY U660 Seminar in Cognition 4 SH

PSY U668 Seminar in Sensation and Perception 4 SH

Psychology Electives

Complete two courses from the following list (courses satisfying the categories above cannot be reused):

PSY U402 Social Psychology 4 SH

PSY U450 Learning and Motivation 4 SH

PSY U452 Introduction to Sensation and Perception 4 SH

PSY U458 Psychobiology 4 SH

PSY U520 Language and the Brain 4 SH

PSY U522 Psychology of Reading 4 SH

PSY U524 Language and Cognitive Development 4 SH

PSY U526 Categorization and Reasoning 4 SH

PSY U610 Laboratory in Psycholinguistics 4 SH

PSY U612 Laboratory in Cognition 4 SH

PSY U622 Laboratory in Sensation and Perception 4 SH

PSY U652 Seminar in Ethics in Psychology 4 SH

PSY U658 Seminar in Psycholinguistics 4 SH

PSY U660 Seminar in Cognition 4 SH

PSY U668 Seminar in Sensation and Perception 4 SH

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION**UNIVERSITY-WIDE REQUIREMENTS**

133 total semester hours required

Minimum 2.000 GPA required

BS in Computer Science and Mathematics**ENGLISH REQUIREMENT**

Complete the following two courses:

ENG U111 College Writing 4 SH

ENG U302 Advanced Writing in the Technical Professions 4 SH

With prior permission, the following course may be substituted for ENG U302:

ENG U301 Advanced Writing in the Disciplines 4 SH

A grade of C or higher is required in ENG U111 and in the advanced writing course.

BS CORE REQUIREMENTS

Courses from your major cannot count toward the core.

Methods of Inquiry**LOGIC**

Complete the following course with a grade of C– or higher:

PHL U215 Symbolic Logic 4 SH

ARTS, HUMANITIES, OR SOCIAL WORLD CONTEXT

Complete one course from one of the following lists:

“Approved Courses: Methods of Inquiry—Arts Context” on page 52.

“Approved Courses: Methods of Inquiry—Humanities Context” on page 52.

“Approved Courses: Methods of Inquiry—Social World Context” on page 53.

Diversity

Complete one course from the list “College of Computer and Information Science Approved Courses: Diversity” on page 203.

Historical, Ethical, and Aesthetic Perspectives

Complete one course from the list “Approved Courses: Historical, Ethical, and Aesthetic Perspectives” on page 54.

Analysis

Complete the following course:

SOC U528 Computers and Society 4 SH

GENERAL ELECTIVES**Required General Electives**

Complete five general electives.

COMPUTER SCIENCE COURSES**Computer Science Overview**

Freshmen or freshman transfers complete the following two courses:

CS U221	Computer/Information Science Overview 1	1 SH
CS U222	Computer/Information Science Overview 2	1 SH

Upper-level transfer students must complete the following course:

CS U223	Computer/Information Science Co-op Preparation	1 SH
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and must also make up 1 semester hour of credit.

Computer Science Fundamental Courses

Complete the following three courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

CS U200	Discrete Structures	4 SH
CS U211	Fundamentals of Computer Science 1	4 SH
with CS U212	Lab for CS U211	1 SH
CS U213	Fundamentals of Computer Science 2	4 SH
with CS U214	Lab for CS U213	1 SH

Computer Science Required Courses

Complete the following four courses:

CS U370	Object-Oriented Design	4 SH
CS U390	Theory of Computation	4 SH
CS U670	Software Development	4 SH
CS U690	Algorithms and Data	4 SH

Integrative Course

Complete one of the following courses:

CS U540	Computer Graphics	4 SH
or CS G252	Cryptography and Communications Security	4 SH

Computer Science Senior Seminar

Complete the following course:

CS U600	Senior Seminar	1 SH
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Computer Science Elective Courses

Complete two upper-division computer science courses. With adviser approval, directed study courses, project study courses, and appropriate graduate-level courses may also be taken as computer science electives.

CS U380 to CS U999

IS U535	Information Retrieval	4 SH
IS U570	Human Computer Interaction	4 SH

MATHEMATICS COURSES**Calculus Courses**

Complete the following three courses with a grade of C– or higher in MTH U241 and MTH U242:

MTH U241	Calculus 1 for Science and Engineering	4 SH
MTH U242	Calculus 2 for Science and Engineering	4 SH
MTH U341	Calculus 3 for Science and Engineering	4 SH

Mathematics Courses

Complete the following five courses:

MTH U345	Ordinary Differential Equations	4 SH
MTH U371	Linear Algebra	4 SH
MTH U430	Number Theory	4 SH
MTH U481	Probability and Statistics	4 SH
MTH U575	Group Theory	4 SH

Co-op Seminars

Complete the following two courses:

MTH U300	Co-op Reflections Seminar 1	1 SH
MTH U400	Co-op Reflections Seminar 2	1 SH

Mathematics Electives

Complete two upper-division courses from the mathematics department:

MTH U401 to MTH U699

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION**UNIVERSITY-WIDE REQUIREMENTS**

135 total semester hours required

Minimum 2.000 GPA required

BS in Computer Science and Multimedia Studies**ENGLISH REQUIREMENT**

Complete the following two courses:

ENG U111	College Writing	4 SH
ENG U302	Advanced Writing in the Technical Professions	4 SH

With prior permission, the following course may be substituted for ENG U302:

ENG U301	Advanced Writing in the Disciplines	4 SH
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A grade of C or higher is required in ENG U111 and in the advanced writing course.

BS CORE REQUIREMENTS

Courses from your major cannot count toward the core.

Methods of Inquiry**LOGIC**

Complete the following course with a grade of C– or higher:

PHL U215	Symbolic Logic	4 SH
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ARTS, HUMANITIES, OR SOCIAL WORLD CONTEXT

Complete the following course (recommended):

PSY U101	Foundations of Psychology	4 SH
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or complete one course from one of the following lists:

“Approved Courses: Methods of Inquiry—Arts Context” on page 52.

“Approved Courses: Methods of Inquiry—Humanities Context” on page 52.

“Approved Courses: Methods of Inquiry—Social World Context” on page 53.

Diversity

Complete one course from the list “College of Computer and Information Science Approved Courses: Diversity” on page 203.

Historical, Ethical, and Aesthetic Perspectives

Complete one course from the list “Approved Courses: Historical, Ethical, and Aesthetic Perspectives” on page 54.

Analysis

Complete the following course:

SOC U528 Computers and Society 4 SH

Required General Electives

Complete three general electives.

COMPUTER SCIENCE COURSES**Computer Science Overview**

Freshmen or freshman transfers must complete the following two courses:

CS U221 Computer/Information Science Overview 1 1 SH

CS U222 Computer/Information Science Overview 2 1 SH

Upper-level transfer students must complete the following course:

CS U223 Computer/Information Science Co-op Preparation 1 SH

and must also make up 1 semester hour of credit.

Computer Science Fundamental Courses

Complete the following three courses with corresponding labs, as indicated. A grade of C– or higher is required in courses:

CS U200 Discrete Structures 4 SH

CS U211 Fundamentals of Computer Science 1 4 SH

with CS U212 Lab for CS U211 1 SH

CS U213 Fundamentals of Computer Science 2 4 SH

with CS U214 Lab for CS U213 1 SH

Computer Science Required Courses

Complete the following two courses:

CS U370 Object-Oriented Design 4 SH

CS U430 Database Design 4 SH

Computer Science Senior Seminar

Complete the following course:

CS U600 Senior Seminar 1 SH

Integrative Courses

Complete the following two courses:

IS U570 Human Computer Interaction 4 SH

MMS U500 Multimedia Studies History 4 SH

Computer Science Elective Courses

Complete four upper-division computer science courses. With adviser approval, directed study courses, project study course, and appropriate graduate-level courses may also be taken as computer science electives:

CS U380 to CS U999

IS U535 Information Retrieval 4 SH

MULTIMEDIA STUDIES COURSES**Required Courses**

Complete the following eight courses:

ART U130 Visual Studies Foundation 1 4 SH

ART U290 Introduction to Digital Tools 4 SH

MMS U300 Narrative for Multimedia 4 SH

MMS U305 Programming for Multimedia 4 SH

MMS U400 Hypermedia 4 SH

MMS U700 Multimedia Capstone 1 4 SH

MMS U701 Multimedia Capstone 2 4 SH

MUS U220 Music and Technology 1 4 SH

Multimedia Studies Electives

Complete three additional courses from one or more of the following areas:

MULTIMEDIA STUDIES

MMS U450 Special Topics in Hypermedia 4 SH

MMS U460 Special Topics in Multimedia 4 SH

MMS U600 Business, Law, and Multimedia 4 SH

ANIMATION AND VIDEO

ART U175 Animation Basics 4 SH

ART U180 Video Basics 4 SH

ART U275 Animation Studio 1 4 SH

ART U375 Animation Studio 2 4 SH

ART U475 Animation Studio 3 4 SH

PHOTOGRAPHY

ART U160 Photography 1 4 SH

ART U360 Photography 2 4 SH

ART U385 Still Digital Imaging 4 SH

ART U602 Fine Art Digital Imaging 4 SH

GRAPHIC DESIGN

ART U332 Design Principles and Drawing 4 SH

ART U334 Typography 1 4 SH

ART U344 Typography 2 4 SH

MUSIC TECHNOLOGY

MUS U221 Music and Technology 2 4 SH

MUS U232 Music Recording 1 4 SH

MUS U320 Sound Design 4 SH

MUS U421 Digital Audio Processing 4 SH

MAJOR GPA REQUIREMENT

Minimum 2.670 GPA required in all CS, IS, and MMS courses

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION**UNIVERSITY-WIDE REQUIREMENTS**

132 total semester hours required

Minimum 2.000 GPA required

BS in Computer Science and Music with Concentration in Music Technology**ENGLISH REQUIREMENT**

Complete the following two courses:

ENG U111 College Writing 4 SH

ENG U302 Advanced Writing in the Technical Professions 4 SH

With prior permission, the following course may be substituted for ENG U302:

ENG U301 Advanced Writing in the Disciplines 4 SH

A grade of C or higher is required in ENG U111 and in the advanced writing course.

BS CORE REQUIREMENTS

Courses from your major cannot count toward the core.

Methods of Inquiry

LOGIC

Complete the following course with a grade of C- or higher:

PHL U215 Symbolic Logic 4 SH

ARTS, HUMANITIES, OR SOCIAL WORLD CONTEXT

Complete the following course (recommended):

PSY U101 Foundations of Psychology 4 SH

or complete one course from one of the following lists:

“Approved Courses: Methods of Inquiry—Arts Context” on page 52.

“Approved Courses: Methods of Inquiry—Humanities Context” on page 52.

“Approved Courses: Methods of Inquiry—Social World Context” on page 53.

Diversity

Complete one course from the list “College of Computer and Information Science Approved Courses: Diversity” on page 203.

Historical, Ethical, and Aesthetic Perspectives

Complete one course from the list “Approved Courses:

Historical, Ethical, and Aesthetic Perspectives” on page 54.

Analysis

Complete the following course:

SOC U528 Computers and Society 4 SH

Required General Electives

Complete two general electives.

COMPUTER SCIENCE COURSES

Computer Science Overview

Freshmen or freshman transfers must complete the following two courses:

CS U221 Computer/Information Science Overview 1 1 SH

CS U222 Computer/Information Science Overview 2 1 SH

Upper-level transfer students must complete the following course:

CS U223 Computer/Information Science Co-op Preparation 1 SH

and must also make up 1 semester hour of credit.

Computer Science Fundamental Courses

Complete the following three courses with corresponding labs, as indicated. A grade of C- or higher is required in each course:

CS U200 Discrete Structures 4 SH

CS U211 Fundamentals of Computer Science 1 4 SH

with CS U212 Lab for CS U211 1 SH

CS U213 Fundamentals of Computer Science 2 4 SH

with CS U214 Lab for CS U213 1 SH

Computer Science Required Courses

Complete the following two courses:

CS U370 Object-Oriented Design 4 SH

CS U430 Database Design 4 SH

Computer Science Senior Seminar

Complete the following course:

CS U600 Senior Seminar 1 SH

Integrative Courses

Complete the following two courses:

IS U570 Human Computer Interaction 4 SH

MUS U320 Sound Design 4 SH

Computer Science Elective Courses

Complete four upper-division computer science courses. With adviser approval, directed study courses, project study course, and appropriate graduate-level courses may also be taken as computer science electives:

CS U380 to CS U999

IS U535 Information Retrieval 4 SH

MUSIC TECHNOLOGY COURSES

Music Theory

Complete the following two courses with corresponding musicianship courses:

MUS U201 Music Theory 1 4 SH

with MUS U241 Musicianship 1 1 SH

MUS U202 Music Theory 2 4 SH

with MUS U242 Musicianship 2 1 SH

Music History

Complete the following two courses (MUS U308 is a prerequisite to MUS U315):

MUS U308 Principles of Music Literature 4 SH

MUS U315 History of Electronic Music 4 SH

Music Technology

Complete the following four courses in order:

MUS U220 Music and Technology 1 4 SH

MUS U221 Music and Technology 2 4 SH

MUS U421 Digital Audio Processing 4 SH

MUS U520 Interactive Real-Time Performance 4 SH

Electronic Composition and Performance

Complete the following two courses in order:

MUS U610 Composition for Electronic Instruments 4 SH

MUS U611 Music Technology Capstone/Senior Recital 4 SH

Music Lessons

Complete the following (repeatable) course four times:

MUS U903 Composition Lessons 1 SH

Music Elective Requirements

Complete two additional courses from the following list (MUS U303 is a prerequisite to MUS U304 and MUS U420; MUS U308 is a prerequisite to MUS U311, MUS U312, and MUS U313):

MUS U233 Music Production for Radio and Web 4 SH

MUS U303 Music Theory 3 4 SH

with MUS U343 Musicianship 3 1 SH

MUS U304 Music Theory 4 4 SH

with MUS U344 Musicianship 4 1 SH

MUS U311	Historical Traditions 1: America	4 SH
MUS U312	Historical Traditions 2: Classical	4 SH
MUS U313	Historical Traditions 3: World	4 SH
MUS U420	Music Composition Seminar 1	4 SH
MUS U699	Advanced Television Production	4 SH
MMS U305	Programming for Multimedia	4 SH

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

UNIVERSITY-WIDE REQUIREMENTS

138 total semester hours required

Minimum 2.000 GPA required

BS in Computer Science and Physics

ENGLISH REQUIREMENT

Complete the following two courses:

ENG U111	College Writing	4 SH
ENG U302	Advanced Writing in the Technical Professions	4 SH

With prior permission, the following course may be substituted for ENG U302:

ENG U301	Advanced Writing in the Disciplines	4 SH
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A grade of C or higher is required in ENG U111 and in the advanced writing course.

BS CORE REQUIREMENTS

Courses from your major cannot count toward the core.

Methods of Inquiry

LOGIC

Complete the following course with a grade of C– or higher:

PHL U215	Symbolic Logic	4 SH
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ARTS, HUMANITIES, OR SOCIAL WORLD CONTEXT

Complete one course from one of the following lists:

“Approved Courses: Methods of Inquiry—Arts Context” on page 52.

“Approved Courses: Methods of Inquiry—Humanities Context” on page 52.

“Approved Courses: Methods of Inquiry—Social World Context” on page 53.

Diversity

Complete one course from the list “College of Computer and Information Science Approved Courses: Diversity” on page 203.

Historical, Ethical, and Aesthetic Perspectives

Complete one course from the list “Approved Courses: Historical, Ethical, and Aesthetic Perspectives” on page 54.

Analysis

Complete the following course:

SOC U528	Computers and Society	4 SH
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GENERAL ELECTIVES

Required General Electives

Complete four general electives.

MATHEMATICS INTEGRATIVE COURSES

Calculus

Complete the following three courses with a grade of C– or higher in MTH U241 and MTH U242:

CALCULUS 1 AND 2

MTH U241	Calculus 1 for Science and Engineering	4 SH
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MTH U242	Calculus 2 for Science and Engineering	4 SH
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CALCULUS 3

MTH U341	Calculus 3 for Science and Engineering	4 SH
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Additional Math Requirements

Complete the following two courses:

MTH U345	Ordinary Differential Equations	4 SH
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MTH U525	Applied Analysis	4 SH
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PHYSICS COURSES

Required Courses

Complete the following two courses with corresponding labs:

PHY U161	Physics 1	4 SH
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with PHY U162	Lab for PHY U161	1 SH
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PHY U165	Physics 2	4 SH
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with PHY U166	Lab for PHY U165	1 SH
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Intermediate Physics

Complete the following three courses:

PHY U303	Modern Physics	4 SH
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PHY U305	Thermodynamics and Statistical Mechanics	4 SH
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PHY U371	Electronics	4 SH
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Advanced Physics

Complete the following two courses:

PHY U600	Advanced Physics Laboratory 1	4 SH
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PHY U602	Electricity and Magnetism	4 SH
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Physics Elective

Complete one upper-division course from the physics department:

PHY U400 to PHY U699

COMPUTER SCIENCE COURSES

Computer Science Overview

Freshmen or freshman transfers complete the following two courses:

CS U221	Computer/Information Science Overview 1	1 SH
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CS U222	Computer/Information Science Overview 2	1 SH
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Upper-level transfer students must complete the following course:

CS U223	Computer/Information Science Co-op Preparation	1 SH
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and must also make up 1 semester hour of credit.

Computer Science Fundamental Courses

Complete the following three courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

CS U200	Discrete Structures	4 SH
CS U211	Fundamentals of Computer Science 1	4 SH
with CS U212	Lab for CS U211	1 SH
CS U213	Fundamentals of Computer Science 2	4 SH
with CS U214	Lab for CS U213	1 SH

Computer Science Required Courses

Complete the following four courses:

CS U370	Object-Oriented Design	4 SH
CS U390	Theory of Computation	4 SH
CS U670	Software Development	4 SH
CS U690	Algorithms and Data	4 SH

Computer Science Senior Seminar

Complete the following course:

CS U600	Senior Seminar	1 SH
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Computer Science Elective Course

Complete one upper-division computer science course. With adviser approval, directed study courses, project study courses, and appropriate graduate-level courses may also be taken as computer science electives:

CS U380 to CS U999		
IS U535	Information Retrieval	4 SH
IS U570	Human Computer Interaction	4 SH

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION**UNIVERSITY-WIDE REQUIREMENTS**

135 total semester hours required
Minimum 2.000 GPA required

BS in Information Science and Business Administration**ENGLISH REQUIREMENT**

Complete the following two courses:

ENG U111	College Writing	4 SH
ENG U302	Advanced Writing in the Technical Professions	4 SH

With prior permission, the following course may be substituted for ENG U302:

ENG U301	Advanced Writing in the Disciplines	4 SH
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A grade of C or higher is required in ENG U111 and in the advanced writing course.

DIVERSITY

Satisfy the diversity course option, the residence-abroad option, the international co-op/study-abroad option, or the community service option.

Diversity Course Option

Complete one course from the list “College of Computer and Information Science Approved Courses: Diversity” on page 203.

Residence-Abroad Option

Provide documentation that you lived in a country other than the United States or Canada for at least two years after your tenth birthday.

International Co-Op/Study-Abroad Option

Participate in a six-month international co-op assignment or study abroad in a country other than Canada.

Community Service Option

Complete one hundred hours of preapproved diversity-related community service and file a report describing the work completed.

BS CORE REQUIREMENTS

Courses from your major cannot count toward the core.

Methods of Inquiry**LOGIC**

Complete the following course with a grade of C– or higher:

PHL U215	Symbolic Logic	4 SH
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ECONOMICS

Complete the following two courses:

ECN U115	Principles of Macroeconomics	4 SH
ECN U116	Principles of Microeconomics	4 SH

Analysis

Complete the following course:

SOC U528	Computers and Society	4 SH
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Mathematics

Complete one of the following courses:

MTH U131	Calculus for Business and Economics	4 SH
MTH U241	Calculus 1 for Science and Engineering	4 SH

Required General Electives

Complete 12 semester hours of general electives (CBA U101, if taken, counts as a general elective).

COMPUTER SCIENCE COURSES**Computer Science Overview**

Freshmen or freshman transfers complete the following two courses:

CS U221	Computer/Information Science Overview 1	1 SH
CS U222	Computer/Information Science Overview 2	1 SH

Upper-level transfer students must complete the following course:

CS U223	Computer/Information Science Co-op Preparation	1 SH
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and must also make up 1 semester hour of credit.

Computer Science Fundamental Courses

Complete the following three courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

CS U200	Discrete Structures	4 SH
CS U211	Fundamentals of Computer Science 1	4 SH
with CS U212	Lab for CS U211	1 SH
CS U213	Fundamentals of Computer Science 2	4 SH
with CS U214	Lab for CS U213	1 SH

Computer Science Required Courses

Complete the following two courses:

CS U370	Object-Oriented Design	4 SH
CS U430	Database Design	4 SH

Computer Science Senior Seminar

Complete the following course:

CS U600	Senior Seminar	1 SH
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Integrative Courses

Complete the following two courses:

MIS U305	Information Resource Management	4 SH
MIS U404	Business Data Communications	4 SH

Additional Requirements

Complete the following three courses:

IS U300	Principles of Information Science	4 SH
IS U470	Information System Design and Development	4 SH
IS U580	Empirical Research Methods	4 SH

and complete one upper-division information science elective from the following list. With adviser approval, directed study courses, project study course, and appropriate graduate-level courses may also be taken as computer science electives.

IS U400 to IS U999

CS U380 to CS U999

BUSINESS COURSES**Required Business Courses**

Complete the following seven courses:

ACC U201	Financial Accounting and Reporting	4 SH
ACC U301	Managerial Accounting	4 SH
FIN U201	Financial Management	4 SH
HRM U201	Organizational Behavior	4 SH
MGT U501	Strategy in Action	4 SH
MKT U201	Introduction to Marketing	4 SH
MSC U201	Business Statistics	4 SH

BUSINESS CONCENTRATION

Complete a business concentration other than management information systems from the list “BSBA Business Concentrations” on pages 186–187.

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CS and IS courses.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION**UNIVERSITY-WIDE REQUIREMENTS**

132 total semester hours required

Minimum 2.000 GPA required

BS in Information Science and Cognitive Psychology**ENGLISH REQUIREMENT**

Complete the following two courses:

ENG U111	College Writing	4 SH
ENG U302	Advanced Writing in the Technical Professions	4 SH

With prior permission, the following course may be substituted for ENG U302:

ENG U301	Advanced Writing in the Disciplines	4 SH
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A grade of C or higher is required in ENG U111 and in the advanced writing course.

BS CORE REQUIREMENTS

Courses from your major cannot count toward the core.

Methods of Inquiry**LOGIC**

Complete the following course with a grade of C– or higher:

PHL U215	Symbolic Logic	4 SH
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ARTS, HUMANITIES, OR SOCIAL WORLD CONTEXT

Complete one course from one of the following lists:

“Approved Courses: Methods of Inquiry—Arts Context” on page 52.

“Approved Courses: Methods of Inquiry—Humanities Context” on page 52.

“Approved Courses: Methods of Inquiry—Social World Context” on page 53.

Diversity

Complete one course from the list “College of Computer and Information Science Approved Courses: Diversity” on page 203.

Historical, Ethical, and Aesthetic Perspectives

Complete one course from the list “Approved Courses: Historical, Ethical, and Aesthetic Perspectives” on page 54.

Analysis

Complete the following course:

SOC U528	Computers and Society	4 SH
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Required General Electives

Complete four general electives.

MATHEMATICS REQUIREMENT**Calculus**

Complete the following course:

MTH U241	Calculus 1 for Science and Engineering	4 SH
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COMPUTER AND INFORMATION SCIENCE COURSES**Computer Science Overview**

Freshmen or freshman transfers must complete the following two courses:

CS U221	Computer/Information Science Overview 1	1 SH
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with CS U222	Computer/Information Science Overview 2	1 SH
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Upper-level transfer students must complete the following course:

CS U223	Computer/Information Science Co-op Preparation	1 SH
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and must also make up 1 semester hour of credit.

Computer Science Fundamental Courses

Complete the following three courses with corresponding labs, as indicated. A grade of C–or higher is required in each course:

CS U200	Discrete Structures	4 SH
CS U211	Fundamentals of Computer Science 1	4 SH
with CS U212	Lab for CS U211	1 SH
CS U213	Fundamentals of Computer Science 2	4 SH
with CS U214	Lab for CS U213	1 SH

Computer Science Required Courses

Complete the following three courses:

CS U370	Object-Oriented Design	4 SH
CS U390	Theory of Computation	4 SH
CS U520	Artificial Intelligence	4 SH

Information Science

Complete the following four courses:

IS U300	Principles of Information Science	4 SH
IS U470	Information System Design and Development	4 SH
IS U570	Human Computer Interaction	4 SH
IS U580	Empirical Research Methods	4 SH

Integrative Courses

Complete either of the following course pairs. Students who wish to take PSY U970 and PSY U971 must consult in advance with the cognitive psychology faculty adviser, receive explicit permission, and make appropriate arrangements:

IS U691	Information Science Field Study	1 SH
with IS U692	Information Science Senior Project	5 SH
PSY U970	Junior/Senior Project 1	4 SH
with PSY U971	Junior/Senior Project 2	4 SH

PSYCHOLOGY COURSES

Required Courses

Complete the following four courses with corresponding lab, when offered:

PSY U101	Foundations of Psychology	4 SH
PSY U320	Statistics in Psychological Research	4 SH
with PSY U321	Lab for PSY U320	1 SH
PSY U464	Psychology of Language	4 SH
PSY U466	Cognition	4 SH

Advanced Psychology

Complete one course from the following list:

PSY U452	Introduction to Sensation and Perception	4 SH
PSY U458	Psychobiology	4 SH

Laboratory in Psychology

Complete one course from the following list:

PSY U610	Laboratory in Psycholinguistics	4 SH
PSY U612	Laboratory in Cognition	4 SH
PSY U622	Laboratory in Sensation and Perception	4 SH

Seminar in Psychology

Complete one course from the following list:

PSY U658	Seminar in Psycholinguistics	4 SH
PSY U660	Seminar in Cognition	4 SH
PSY U668	Seminar in Sensation and Perception	4 SH

Psychology Electives

Complete two courses from the following list (courses satisfying the categories above cannot be reused):

PSY U402	Social Psychology	4 SH
PSY U450	Learning and Motivation	4 SH
PSY U452	Introduction to Sensation and Perception	4 SH
PSY U458	Psychobiology	4 SH
PSY U520	Language and the Brain	4 SH
PSY U522	Psychology of Reading	4 SH
PSY U524	Language and Cognitive Development	4 SH
PSY U526	Categorization and Reasoning	4 SH
PSY U610	Laboratory in Psycholinguistics	4 SH
PSY U612	Laboratory in Cognition	4 SH
PSY U622	Laboratory in Sensation and Perception	4 SH
PSY U652	Seminar in Ethics in Psychology	4 SH
PSY U658	Seminar in Psycholinguistics	4 SH
PSY U660	Seminar in Cognition	4 SH
PSY U668	Seminar in Sensation and Perception	4 SH

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

UNIVERSITY-WIDE REQUIREMENTS

133 total semester hours required

Minimum 2.000 GPA required

Program Length

Normally, the undergraduate program is five years, with seven full academic semesters, two summer half semesters, and three semesters of cooperative education. Some students may complete the program in four years with a reduced cooperative education component. The college is strongly committed to the cooperative education program since it believes that the opportunity to integrate academic learning with practical experience in industry can greatly contribute to a student's personal and professional development.