

## **MATHEMATICS MAJOR REQUIREMENTS**

A major in Mathematics consists of the following required courses:

MATH 120	Precalculus
MATH 131	Calculus I
MATH 132	Calculus II
MATH 216	Set Theory and Symbolic Logic
MATH 231	Calculus III
MATH 232	Calculus IV
MATH 330	Linear Algebra
MATH 340	Theoretical Statistics I
MATH 400	Modern Algebra
MATH 410	Real Variables I
MATH 420	Real Variables II*
MATH 460	Seminar in Mathematics

Two additional courses in Mathematics chosen from courses numbered 300 and above.

\*MATH 341 may be substituted with permission of department

## **COMPUTER SCIENCE MAJOR REQUIREMENTS**

A major in Computer Science consists of the following required courses:

MATH 120	Precalculus
MATH 131	Calculus I
MATH 132	Calculus II
CSCI 200	Introduction to Programming
CSCI 205	Data Structures and Abstraction
CSCI 225	Mathematical Structures for Computer Science
CSCI 300	Software Practice
CSCI 315	Artificial Intelligence
CSCI 320	Algorithm Analysis
CSCI 340	Computer Architecture
CSCI 440	Operating Systems and Networking
CSCI 460	Seminar in Computer Science
CIS 250	Introduction to Information Systems
CIS 450	Software Engineering

*And 2 courses from the following:*

ART 220	Introduction to Digital Media
ART 322	Web Theory and Design
CSCI 330	Scripting Languages
CSCI 410	Signal and Image Processing
CSCI 430	Programming Paradigms
CSCI 435	Compiler Design
CSCI 450	Special Topics
CIS 325	Data Communications
CIS 350	Database Management
MATH 330	Linear Algebra
MATH 340	Theoretical Statistics I
MATH 350	Numerical Analysis
PHYS 305	Electronics
PHYS 306	Digital Electronics

The Computer Science major may be taken as a dual major with Mathematics.

## **INFORMATION SYSTEMS MANAGEMENT MAJOR REQUIREMENTS**

A major in Information Systems Management consists of the following required courses:

CIS 103	Introduction to Computing
CIS 250	Introduction to Information Systems
CIS 325	Data Communications
CIS 350	Database Management
CIS 450	Software Engineering
CIS 460	Seminar in Information Systems
BUS 300	Principles of Organization Management
BUS 340	Management Science
BUS 420	Human Resource Management
PHIL 319	Conflict Transformation
PHIL 320	Professional Ethics
COMM 325	Communication in the Organization
SOC 245	Group Process
SOC 345	Organizations in American Life
MATH 200	Introduction to Statistics

*And 1 course from the following:*

CSCI 105	BASIC Programming
CSCI 200	Introduction to Programming