

MATHEMATICS, BACHELOR OF SCIENCE

Code	Title	Hours
General Education Courses		
<i>I. Communication</i>		
English:		
Select two of the following:		6
ENGL U101	Composition I	
ENGL U102	Composition II	
Speech:		
SPCH U201	Foundations in Oral Communication	3
<i>II. Mathematics, Logic & Natural Sciences</i>		
Mathematics: ¹		
MATH U141	Calculus I	4
MATH U142	Calculus II	4
Natural Science (w/ lab):		
Select one of the following options:		8
Option 1:		
BIOL U101 & U101L	Introductory Biology I and Introductory Biology I Lab	
BIOL U102 & U102L	Introductory Biology II and Introductory Biology II Lab	
Option 2:		
CHEM U111 & U111L	General Chemistry and General Chemistry Lab	
CHEM U112 & U112L	General Chemistry and Qualitative Analysis and General Chemistry and Qualitative Analysis Lab.	
Option 3:		
BIOL U244 & U244L	Human Anatomy and Physiology II and Human Anatomy and Physiology II Lab	
<i>III. Information Technology</i>		
Information Technology: ¹		
CSCI U138	Introduction to Computer Technology	3
or CSCI U150		Introduction to Computer Science
<i>IV. Fine Arts, Humanities & History</i>		
Choose one course from each of the following three sections, with three disciplines represented.		
Fine Arts:		
Select one of the following:		3
AFAM U204	African American Culture	
ARTH U101	Introduction to Art	
ARTH U105	History of Western Art: Prehistory - Middle Ages	
ARTH U106	History of Western Art: Renaissance - Modern	
MUSC U110	Introduction to Music	
MUSC U140	History of American Popular Music	
THEA U161	Introduction to Theatre Art	
THEA U170	Fundamentals in Acting	
History:		
Select one of the following:		3
HIST U101	Introduction to World History I	

HIST U102	Introduction to World History II	
HIST U105	History of the United States to 1877	
HIST U106	History of the United States from 1865	
Humanities:		
Select any Fine Arts course listed above from a second discipline or:		3
AMST U101	American Studies, 17th - 19th Century	
AMST U102	American Studies, 20th Century	
ENGL U208	Introduction to Creative Writing	
ENGL U252	Understanding English Grammar	
ENGL U275	Masterpieces of World Literature	
ENGL U279	Survey of American Literature I	
ENGL U280	Survey of American Literature II	
ENGL U289	Survey of British Literature I	
ENGL U290	Survey of British Literature II	
ENGL U291	African American Literature	
FILM U240	Introduction to Film	
PHIL U102	Introduction to Philosophy	
PHIL U211	Contemporary Moral Issues	
RELG U103	Comparative Religion	
SOST U201	Introduction to Southern Studies	
<i>V. Foreign Language & Culture</i>		
Foreign Language:		
Select one of the following: ²		3
ASLG U101	American Sign Language I	
FREN U101	Introductory French I	
GERM U101	Introductory German I	
SPAN U101	Introductory Spanish I	
<i>VI. Social & Behavioral Sciences</i>		
Social & Behavioral Science:		
Select two courses from the following with two disciplines represented:		6
AFAM U201	Introduction to African American Studies	
ANTH U102	Understanding Other Cultures	
ECON U221	Principles of Macroeconomics	
ECON U222	Principles of Microeconomics	
GEOG U103	Introduction to Geography	
POLI U101	American National Government	
PSYC U101	Introduction to Psychology	
SOCY U101	Introduction to Sociology	
SPCH U210	Interpersonal Communication	
WGST U101	Introduction to Women's & Gender Studies	
<i>VII. General Education Electives</i>		
General Education Electives:		
Select any approved general education course or courses (https://academic-catalog.uscupstate.edu/academic-programs/general-education-courses/)		3
Major Requirements ¹		
Select one of the following concentrations:		33
<i>Mathematics Concentration</i>		
MATH U315	Statistical Methods I	
MATH U340	Mathematical Structures and Proof	
MATH U344	Linear Algebra I	
MATH U346	Modern Algebra I	

MATH U354	Real Analysis I	
MATH U599	Seminar in Mathematics	
Select two of the following:		
MATH U544	Linear Algebra II	
MATH U546	Modern Algebra II	
MATH U552	Complex Variables	
MATH U554	Real Analysis II	
MATH U560	Numerical Analysis I	
Select one 300-level or higher and two 400-level or higher mathematics, statistics or approved computer science courses: ³		
MATH / STAT / CSCI		
MATH / STAT / CSCI		
MATH / STAT		
<i>Statistics Concentration</i>		
MATH U315	Statistical Methods I	
MATH U340	Mathematical Structures and Proof	
MATH U344	Linear Algebra I	
STAT U301	Statistical Computing	
STAT U410	Introduction to Probability Theory	
STAT U516	Statistical Methods II	
STAT U413	Introduction to Stochastic Processes or STAT U51 Mathematical Statistics	
STAT U599	Seminar in Statistics	
Select three approved 300-level or higher courses from math, statistics or computer science:		
MATH / STAT / CSCI		
MATH / STAT / CSCI		
MATH / STAT / CSCI		
Supporting Courses ¹		
Select supporting courses option to align with concentration (Mathematics or Statistics)		12
<i>Mathematics Concentration</i>		
MATH U241	Calculus III	
MATH U245	Elementary Differential Equations	
MATH U174	Elements of Discrete Mathematics or CSCI U200 Computer Science I	
CSCI U300	Computer Science II (or MATH programming course)	
<i>Statistics Concentration</i>		
Select four approved 200-level or higher courses from MATH / STAT / CSCI / BADM / BIOL / CHEM / ECON / PSYC / SOCY		
Upper-Level Electives, Minor, and Other Electives		26
<i>Upper-Level Electives or Minor ^{1,4}</i>		
Select 12-21 credits		
<i>Electives</i>		
Select 7-16 credits		
Total Hours		120

³ At most two CSCI courses permitted here.

⁴ Upper Level Electives include 200 level or higher MATH/STAT/CSCI/ Natural and Physical Sciences courses and any course accepted by the University as meeting the requirements of a cognate. Upper Level Electives must be approved by the student's advisor in advance.

¹ A minimum grade of C is required in each course indicated.

² The minimum acceptable level of competency is completion of the 101 level of a language. Students who place into the 102 or higher level of a language satisfy the language requirement but will have additional hours in general education electives, if hours are required by their degree program.