



This course plan is a recommended sequence for this major. Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding “critical courses” for this particular Program of Study.

Critical	Course Subject and Title	Credit Hours	Min. Grade ¹	Major GPA ²	Code	Prerequisites	Notes
Semester One (16-17 Credit Hours)							
	STAT 515 Statistical Methods I ³	3	C		MR	MATH 122 or 141; <i>or</i> MATH 111 <i>and</i> any statistics course	
	MATH 141 Calculus I ⁴	4	C		CC-ARP	MATH 112, 115, 116 <i>or</i> Math placement test score	
	ECON 221 Principles of Microeconomics	3			CR		
	Foreign language ⁵ <i>or</i> other Carolina Core Requirement ⁶	3-4			CC-GFL		
	UNIV 101 The Student in the University <i>or</i> Carolina Core Requirement ⁶	3			PR/CC		
Semester Two (16 Credit Hours)							
!	ENGL 101 Critical Reading and Composition	3	C		CC-CMW		
	STAT 516 Stat. Methods II (<i>offered spring & summer only</i>)	3	C		MR	STAT 515, 509, 512 <i>or</i> equivalent	
	MATH 142 Calculus II ⁷	4	C		CC-ARP	MATH 141	
	ECON 222 Principles of Macroeconomics ⁸	3	C		PR		
	Foreign language ⁵ <i>or</i> other Carolina Core Requirement ⁶	3			CC-GFL		
Semester Three (15 Credit Hours)							
	STAT 540 Computing in Statistics (<i>offered fall only</i>)	3	C		MR	STAT 515, 509, 512, <i>or</i> equivalent	
	MATH 241 Vector Calculus	3	C		PR	MATH 142	
	STAT 511 Probability (<i>cross-listed MATH 511</i>)	3	C		MR	Prereq <i>or</i> Coreq: MATH 241	
	ACCT 225 Introduction to Financial Accounting ⁸	3	C		PR		
	Foreign language ⁵ <i>or</i> Carolina Core Requirement ⁶	3			CR/CC		
Semester Four (15 Credit Hours)							
!	ENGL 102 Rhetoric and Composition	3	C		CC-CMW CC-INF		
	STAT 512 Mathematical Statistics (<i>offered spring & summer only</i>)	3	C		MR	STAT/MATH 511	
	STAT Major Elective (<i>500-level or above</i>)	3	C		MR	See course listing in Bulletin .	
	FINA 363 Introduction to Finance ⁸	3	C		PR	ECON 221, ACCT 225, & 3 hrs. Statistics at the 200-level.	
	History ⁹	3			CR		
Semester Five (15-16 Credit Hours)							
	STAT 513 Theory of Statistical Inference (<i>offered fall only</i>)	3	C		MR/CC-INT	STAT 512	
	FINA 469 Investment Analysis & Portfolio Mgmt. ⁸	3	C		PR	FINA 363	
	Carolina Core Requirement ⁶	3-4			CC		
	Carolina Core Requirement ⁶	3			CC		
	Carolina Core Requirement ⁶	3			CC		
Semester Six (12-14 Credit Hours)							
	STAT 521 Applied Stochastic Processes (<i>offered spring of odd years only</i>)	3	C		MR	C <i>or</i> better in STAT 511	
	FINA 471 Derivative Securities ⁸	3	C		PR	FINA 363	
	CSCE 145 Algorithmic Design I <i>or</i> CSCE 206 Scientific Applications Programming	3-4	C		CR	Prereq <i>or</i> Coreq: MATH 111 <i>or</i> 115 (<i>CSCE 145 only</i>); MATH 122 <i>or</i> 141 (<i>CSCE 206 only</i>)	
	Carolina Core Requirement ⁶	3-4			CC		
Semester Seven (15 Credit Hours)							
	STAT 520 Forecasting & Time Series – <i>cross-listed: MGSC 520</i> (<i>offered fall of odd years only</i>)	3	C		MR	STAT 516 <i>or</i> MGSC 391	
	MATH 344 Applied Linear Algebra ¹⁰	3	C		CR	MATH 142	
	ENGL 462 Technical Writing <i>or</i> ENGL 463 Business Writing	3	C		PR	ENGL 101 & 102; & one course from ENGL 270-292 (<i>ENGL 462 only</i>)	
	Carolina Core Requirement ⁶ <i>or</i> Approved Elective ¹¹	3			CC/PR		
	Humanities <i>or</i> Fine Arts	3			CR		
Semester Eight (14 Credit Hours)							
	FINA 475 Fixed Income Securities ⁸	3	C		PR	FINA 469	
	Carolina Core Requirement ⁶ <i>or</i> Approved Elective ¹¹	3			CC/PR		
	Approved Elective ¹¹	3			PR		
	Approved Elective ¹¹	3			PR		
	Approved Elective ¹¹	2			PR		

Graduation Requirements Summary

Minimum Total Hours	Major Requirements Hours	College & Program Requirements Hours	Carolina Core Hours	Minimum Overall GPA
120	27	47-59	34-46	2.000

- Regardless of individual course grades, students must maintain a minimum 2.000 cumulative GPA.
- Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the major GPA for this program of study.
- Students who placed into MATH 141 and have no previous STAT course will take STAT 515 in the second semester.
- Students who place into MATH 115 will be required to take it before proceeding to MATH 141 and should also register for STAT 201 in the first semester and STAT 515 in the second semester. Students who have previously completed STAT 509 will not be required to take STAT 515.
- Students in the College of Arts and Sciences are required to demonstrate proficiency in one foreign language equivalent to the 122 course through course credit or the corresponding foreign language placement score.
- The [Carolina Core](#) provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students.
- If MATH 142 is not taken by the second semester, then students are encouraged to take it over the summer.
- The [minor in Risk Management and Insurance](#) is required for the concentration in Actuarial Science.
- The College of Arts and Sciences requires one U.S. History and one non-U.S. History course, both of which must be chosen from the approved Carolina Core GHS courses. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement.
- Students who have previously completed MATH 544 will not be required to take MATH 344.
- No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Program Notes:

- Courses identified as “critical” must be completed in the student’s first 60 semester hours of work in order for these courses to be credited toward graduation.
- To be retained in the program, a student must obtain a grade of C or higher in at most two attempts in all mathematics, computer science, and statistics courses required for graduation.
- The last 30 credit hours toward your degree must be earned in residence at the University of South Carolina-Columbia.

University Requirements: Bachelor’s degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the [Carolina Core](#) page on the University website.

Codes:	
CC	Carolina Core
CC-AIU	Carolina Core-Aesthetic and Interpretive Understanding
CC-ARP	Carolina Core-Analytical Reasoning and Problem-Solving
CC-CMS	Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component
CC-CMW	Effective, Engaged, and Persuasive Communication: Written Component
CC-GFL	Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language
CC-GHS	Carolina Core – Historical Thinking
CC-GSS	Carolina Core – Social Sciences
CC-INF	Carolina Core – Information Literacy
CC-INT	Carolina Core – Integrative Course
CC-SCI	Carolina Core – Scientific Literacy
CC-VSR	Carolina Core – Values, Ethics, and Social Responsibility
CR	College Requirement
MR	Major Requirement
PR	Program Requirement

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.