Major Map: Statistics Bachelor of Science (B.S.) College of Arts and Sciences Department of Statistics Bulletin Year: 2025-2026

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	n Notes section for details regarding "critical courses" for this  Course Subject and Title	Credit Hours	Min.	Major		Prerequisites	Notes
	er One (16-17 Credit Hours)					·	
	ENGL 101 Critical Reading and Composition	3	С		CC-CMW		
	MATH 141 Calculus 1 <sup>3</sup>	4	С		CC-ARP	C or better in MATH 112, 115, 116 or placement through the MAP	
	STAT 515 Statistical Methods I <sup>4</sup>	3	С		MR	C or higher in MATH 112, 115, 122 or 141; or both C or better in STAT 110 or higher and in MATH 111; or placement through the MAP	
	Foreign language <sup>5</sup> <i>or</i> other Carolina Core Req. <sup>6</sup>	3-4			CC-GFL		
	UNIV 101 The Student in the University <i>or</i> Carolina Core Requirement <sup>6</sup>	3			PR/CC		
Semeste	er Two (16 Credit Hours)						
!	ENGL 102 Rhetoric and Composition	3	С		CC-CMW CC-INF	C or better in ENGL 101	
	MATH 142 Calculus II <sup>7</sup>	4	С		CC-ARP	C or better in MATH 141	
	STAT 516 Statistical Methods II	3	С		MR	C or better in STAT 515, 509, 512 or equivalent	
	Carolina Core Requirement <sup>6</sup>	3			CC		
	Foreign language <sup>5</sup> or other Carolina Core Req. <sup>6</sup>	3			CC-GFL		
Semeste	er Three (15-17 Credit Hours)						
	MATH 241 Vector Calculus	3	С		CR	C or better in MATH 142	
	STAT 511 Probability (cross-listed MATH 511)	3	С		MR	Prereq or Coreq: MATH 241	
	CSCE 145 Algorithmic Design I or CSCE 106 Scientific Applications Programming	3-4	С		CR	Prereq or Coreq: MATH 111 or 115 (CSCE 145 only); C or better in MATH 111 or higher or MAP score into MATH 115 or higher (CSCE 106 only)	
	Foreign language⁵ <i>or</i> Carolina Core Req. <sup>6</sup>	3			CR/CC		
	Carolina Core Requirement <sup>6</sup>	3-4			CC		
	er Four (15 Credit Hours)						
	STAT 512 Math. Statistics (offered spring & summer only)	3	O		MR	C or better in STAT/MATH 511	
	STAT Major Elective <sup>8</sup> (500-level or above)	3	С		MR		
	Social Science	3			CR		
	History <sup>9</sup>	3			CR		
	Carolina Core Requirement <sup>6</sup>	3			CC		
	er Five (15-16 Credit Hours)			ı	1		
	STAT Major Elective <sup>8</sup> (500-level or above)	3	С		MR		
	STAT 540 Computing in Statistics (offered fall only) or STAT Major Elective <sup>8</sup> (500-level or above)	3	С		MR	C or better in STAT 301, 515, 509, 512, or equiv. (STAT 540 only)	
	Carolina Core Requirement <sup>6</sup>	3-4			CC		
	Carolina Core Requirement <sup>6</sup> or Elective <sup>10</sup>	3			CC/PR		
	Carolina Core Requirement <sup>6</sup> or Elective <sup>10</sup>	3			CC/PR		
Semeste	er Six (15 Credit Hours)				145	0 1 11 1 0717 001 500 515	
	STAT Major Elective <sup>8</sup> (500-level or above) (or STAT 542 Computing for Data Science—offered spring only—if STAT 540 not taken in sem. 5)	3	С		MR	C or better in STAT 301, 509, 515, or equiv. (STAT 542 only)	
	ENGL 363 Introduction to Professional Writing or ENGL 462 Technical Writing	3	С		CR	ENGL 101 & 102	
	or ENGL 463 Business Writing						
	Elective <sup>10</sup>	3			PR		
	Elective <sup>10</sup>	3			PR		
0	Elective <sup>10</sup>	3			PR		
Semeste	er Seven (12 Credit Hours)	_	^		MC		
-	STAT Major Elective <sup>8</sup> (500-level or above)	3	С		MR	C on botton in MATILIAAC	
	MATH 344 Applied Linear Algebra <sup>11</sup> Elective <sup>10</sup>	3	С		PR	C or better in MATH 142	
-	Elective 10	3			PR PR		
	er Eight (14 Credit Hours)	J			PK		
Semeste	Elective <sup>10</sup>	3			PR		
-	Elective 10	3			PR		
	Elective 10	3			PR		
	Elective 10	3			PR		
	Elective 10	2			PR		
	Elective -			<u> </u>	l PK		

**Graduation Requirements Summary** 

Minimum Total	al Minimum Major College & Progr		Carolina Core Hours	Minimum
Hours	Requirements Hours Requirements Ho			Institutional GPA
120	27	47-59	34-46	2.000

- 1. Regardless of individual course grades, students must maintain a minimum 2.000 cumulative GPA.
- 2. 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.
- 3. Students who place into MATH 115 should take it in their first semester and take MATH 141 in the second semester. Students who place into MATH 111 should take it in their first semester and take MATH 115 in their second semester and MATH 141 in the summer or in their third semester. Students who place into MATH 141 and have no previous STAT course will take STAT 515 in the second semester.
- 4. Students who do not satisfy the prerequisites for STAT 515 should take STAT 201, 205, or 206 as an elective in the first semester (if they meet the prerequisites for one of them and don't already have credit for any of them) and STAT 515 in the second semester. Students who do not satisfy the prerequisites for any of STAT 201, 205, 206, or 515 should take STAT 110 as an elective in their first semester and STAT 515 in the second.
- 5. 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.
- 6. The Carolina Core provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students.
- 7. If MATH 142 is not taken by the second semester, then it must be taken over the summer.
- 8. Select four courses from STAT 500 or above, at least one of which must be selected from STAT 513, 517, 520 or 535, which are the options of the Carolina Core integrative course for the Statistics major.
  - a. A student with an additional major in Mathematics may use STAT 511 [=MATH 511] to satisfy a major requirement in both programs.
  - b. Major credit will be given for only one of STAT 509 or STAT 515. Neither STAT 509 nor STAT 515 may be taken concurrently with, or after, STAT 513. A student who has started the Statistics major after taking STAT 512 may replace the STAT 509/STAT 515 requirement with an additional 3-hour Major Elective course chosen from STAT 500 or above.
  - c. A student with an additional major in Economics (in the College of Arts and Sciences) may use the combination of both ECON 436 and STAT 506 in place of the combination of both STAT 516 and one of the STAT 500 or above Major Elective courses for the Statistics major. In this case ECON 436 may satisfy a major requirement in both programs. ECON 436 and STAT 516 may not both be used to satisfy major requirements in Statistics.
  - d. Whichever of STAT 540 or STAT 542 was not used as a Major Course may be used as a Major Elective.
- 9. 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.
- 10. 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.
- 11. Students who have previously completed MATH 544 will not be required to take MATH 344.

## **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.
- All undergraduate students must take a 3-credit course or its equivalent with a passing grade that covers the founding documents. This course may fulfill any requirement in the program of study. Courses that meet this requirement are listed in the academic bulletin.
- 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

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

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.