Statistics (BS) (17STBS)

Critical Path Courses: Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.

Freshman Year

Fall Semester	Credit	Spring Semester	Credit
COS 100 Perspectives on Learning (or E115) [1]	2	COM 110 (or 112 or 211) Public Speaking	3
ST 311 Introduction to Statistics [2,3]	3	MA 241 Analytical Geo & Calculus II [2]	4 (CP)
MA 141 Calculus I [2]	4 (CP)	ENG 101 Academic Writing & Research [H]	4
ST 114 Stat Programming (or CSC 111 or 116) [2]	3 (CP)	ST 312 Introduction to Statistics II [2,4]	3 (CP)
HES_*** Health & Exercise Studies Course[E]	1	ST 307 Intro Stat Programming- SAS [2]	1 (CP)
	13		15

Sophomore Year

Fall Semester	Credit	Spring Semester	Credit
MA 242 Calculus III [2]	4 (CP)	ST 308 Intro STAT Programming- R [2]	1
MA 225 Foundations of Adv Math [2]	3 (CP)	GEP Elective [C,D,F,G,I,J]	3
ST 445 Intro Stat Comp & Data Mgmt [2]	3	ST 431 Intro to Experimental Design [2]	3
GEP Elective [C,D,F,G,I,J]	3	MA 305 or 405 Intro to Linear Algebra & Matrices [2,5]	3 (CP)
HES_*** Health & Exercise Studies Course[E]	1	Advised Elective[2,6]	3
		Free Elective [7,K]	3
	14		16

Junior Year

Fall Semester	Credit	Spring Semester	Credit
ST 421 Intro. to Mathematical Stat. I [2]	3 (CP)	ST 422 Intro to Mathematical Stat II[4]	3 (CP)
ST 430 Intro. to Regression Analysis [2]	3 (CP)	GEP Elective [C,D,F,G,I,J]	3
GEP Elective [C,D,F,G,I,J]	3	Computational Statistics Elective [2,9]	3
Advised Elective [2,6]	3	Natural Sciences Elective [8]	4
Free Elective [7,K]	3	Statistical Elective [2,10]	3
	15		16

Senior Year

Fall Semester	Credit	Spring Semester	Credit
ENG 331 (or ENG 332 or 333) Comm. for Engr & Tech	3	ST 432 Intro to Survey Sampling [2]	3
GEP Elective [C,D,F,G,I,J]	3	Natural Sciences Elective [8]	4
Advised Elective [2,6]	3	Advised Elective [2,6]	3
Statistics Elective [2,10]	3	Free Electives [7,K]	3
Natural Sciences Elective [8]	3	GEP Elective [C,D,F,G,I,J]	3
	15		16

Minimum Credit Hours Required for Graduation*: 120

Major/Program Footnotes

1. E 115 satisfies the orientation requirement, but is only a 1-credit course and does not provide GEP credit for Interdisciplinary Perspectives. Students taking E 115 to fill this requirement will need to take 1 additional overall credit to reach the 120 credit minimum, and will need to make sure they take the required 5 total credits of Interdisciplinary Perspectives.

2. At most one D level grade is permitted in Advised Electives, Statistics Electives, or required MAT, ST, or CSC courses. C- or better is required in ST 307, 311, 312 and ST 421.

3. Students transferring into the Statistics major having already taken BUS 350, ST 350, ST 370, or ST 371 may substitute that course for ST 311.

4. Students transferring into the Statistics major having already taken ST 372 may substitute that course for ST 312.
5. Students considering graduate school are strongly encouraged to select ST 405.
6. A documented plan for the 12 credits of the Advised Electives will be created in conjunction with the student's academic advisor. These courses may or may not be statistics courses. Students are encouraged to use Advised Elective credits to pursue a minor or second minor. Note that many courses used as Advised Electives might have prerequisites or other restrictions.
7. A minimum of 120 credit hours are required for graduation.
8. A minimum of 11 credits from the GEP list of Natural Sciences are required. Selected courses mustinclude (i) at least two laboratory classes and (ii) at least three 3- or 4-credit courses.
9. Computational Statistics Electives should be selected from the list on your degree audit.
10. Statistics Electives must be ST- labeled courses at the 400 level.
11. No more than 6 total credits from undergraduate research, independent study, credit by examination, or other similar types of courses may be used to meet program requirements (credit from AP exams or transfer credits is not included under this restriction). If you are unsure if a course falls into this category, please confer with your advisor.

*** General Education Program (GEP) requirements and GEP Footnotes**
To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at http://oucc.dasa.ncsu.edu/general-education-program/.
A. Mathematical Sciences (6 credit hours; one course with MA or ST prefix)
Major requirements fulfill all of this requirement.
B. Natural Sciences (7 credit hours; include one laboratory course or course with a lab)
Major requirements fulfill all of this requirement.
C. Humanities (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Humanities course list .
D. Social Sciences (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Social Sciences course list .
E. Health & Exercise Studies (2 credit hours; at least one 100-level Fitness and Wellness Course)
Choose from the University approved GEP Health & Exercise Studies course list.
F. Additional Breadth (3 credit hours to be selected from the following checked University approved GEP course lists)
Choose from the Humanities/Social Sciences/Visual and Performing Arts course lists.
G. Interdisciplinary Perspectives (5-6 credit hours)
Choose from the University approved GEP Interdisciplinary Perspectives course list. COS 100 fulfills 2 of the 5 credits.
H. Introduction to Writing (4 credit hours satisfied by completing ENG 101 with a C- or better)

The following **Co-Requisites** must be satisfied to complete the General Education Program requirements
I. U.S. Diversity (USD)
Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.
J. Global Knowledge (GK)
Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.
K. Foreign Language proficiency Proficiency at the FL_102 level is required for graduation.