

STATISTICS & DATA SCIENCE MAJOR

PREPARATORY COURSES FOR THE MAJOR

To declare a Major in Statistics & Data Science, a student must have completed the 7 courses below with a minimum grade of C or better in each and a 2.5 GPA or above in all prep courses.

- | | |
|--|-----------------------------------|
| <input type="checkbox"/> STATS 10, 12, OR 13
(ECON 41, PSYCH 100A,
OR AP SCORE OF 4+ ACCEPTED) | <input type="checkbox"/> STATS 20 |
| <input type="checkbox"/> MATH 31A | <input type="checkbox"/> MATH 32A |
| <input type="checkbox"/> MATH 31B | <input type="checkbox"/> MATH 32B |
| | <input type="checkbox"/> MATH 33A |

THE UPPER DIVISION REQUIREMENTS

Due to high demand, enrollment restrictions will reserve 1st (sometimes also 2nd and 3rd) pass enrollment to students who have fully declared the Stats & DS Major.

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|--------------------------------------|--|
| <input type="checkbox"/> STATS 100A | INTRODUCTION TO PROBABILITY (MATH 170A, 170E, ECE 131A OR CEE 110 ALSO ACCEPTED) |
| <input type="checkbox"/> STATS 100B | INTRODUCTION TO MATHEMATICAL STATISTICS (MATH 170S ALSO ACCEPTED) |
| <input type="checkbox"/> STATS 100C | LINEAR MODELS |
| <input type="checkbox"/> STATS 101A | INTRODUCTION TO DATA ANALYSIS AND REGRESSION |
| <input type="checkbox"/> STATS 101B | INTRODUCTION TO DESIGN AND ANALYSIS OF EXPERIMENT |
| <input type="checkbox"/> STATS 101C | INTRODUCTION TO STATISTICAL MODELS AND DATA MINING |
| <input type="checkbox"/> STATS 102A | INTRODUCTION TO COMPUTATIONAL STATISTICS |
| <input type="checkbox"/> STATS 102B | INTRODUCTION TO COMPUTATION AND OPTIMIZATION FOR STATISTICS |
| <input type="checkbox"/> STATS 102C | INTRODUCTION TO MONTE CARLO METHODS |
| <input type="checkbox"/> STATS 140XP | PRACTICE OF STATISTICAL CONSULTING PART 1 |
| <input type="checkbox"/> STATS 141XP | PRACTICE OF STATISTICAL CONSULTING PART 2 |
| <input type="checkbox"/> ELECTIVE 1 | _____ |
| <input type="checkbox"/> ELECTIVE 2 | _____ |

Electives: Stats 112-199, Math 115A, Math 131A, Math 131B, Math 151A, Math 151B, Math 156, Math 170B, Math 171, Math 177, Math 178A, Math 178B, Math 178C, Comm 153 or 188C, Digital Humanities 101, Econ 143, Econ 144, Econ 147, Ecology and Evolutionary Biology C172, Psych 142H

Notes

- 1) All courses must be taken for a letter grade including in all related prerequisites, preparatory courses, and electives.
- 2) All courses which count toward the major must be worth 4 or 5 units. (Total Upper Division = 52 units)
- 3) Permission must be obtained from the department to repeat any course. Original grade must be lower than a C to repeat.
- 4) Repetition of more than two prep courses and any course more than once results in automatic dismissal from the Major.
- 5) Statistics & DS Major students must maintain a 2.0 GPA or higher within Upper Division courses towards the Stats & DS Major.
- 6) A maximum of 4 units of Statistics 195 may be applied as an Upper Division Elective.
- 7) A maximum of 4 units of Statistics 199 may be applied as an Upper Division Elective.

DOUBLE MAJORS: In addition to the prep courses, students must complete **2 Statistics Upper Division core courses** to be eligible to add Statistics & DS as a second major through the Department of Statistics & Data Science and College Academic Counseling.

A MAXIMUM OF 5 UPPER DIVISION COURSES MAY OVERLAP WITH MAJOR OR MINOR PROGRAMS FROM OTHER DEPARTMENTS

I also understand that any deviation from this plan may risk my ability to graduate by the quarter listed above. I agree that any changes to the plan must be approved by the department with an amendment signed by myself and a Student Affairs Officer (SAO) of the Department of Statistics & Data Science.

Name (Print): _____ Signature: _____ Date: _____

SAO (Print): _____ Signature: _____ Date: _____

Statistics & Data Science Major Preparatory Course Requirements

Required: Grade of C or above in each and 2.5 GPA or above in all prep courses.

Stats 10 (or 12, 13, Econ 41, Psych 100A, or AP Score of 4+)

Stats 20

Math 31A, 31B, 32A, 32B & 33A

Statistics & Data Science Major Upper Division Requirements

Stats 100A*, 100B** & 100C

Stats 101A, 101B & 101C

Stats 102A, 102B & 102C

Stats 140XP

Stats 141XP

Upper Division Elective 1

Upper Division Elective 2

* MATH 170A, 170E, ECE 131A, OR CEE 110 ALSO ACCEPTED FOR STATS 100A

** MATH 170S ALSO ACCEPTED FOR STATS 100B

Upper Division Electives

Stats 112-199, Math 115A, Math 131A, Math 131B, Math 151A, Math 151B, Math 156, Math 170B, Math 171, Math 177, Math 178A, Math 178B, Math 178C, Comm 153 or 188C, Digital Humanities 101, Econ 143, Econ 144, Econ 147, Ecology and Evolutionary Biology C172, Psych 142H

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