

# Statistics Minor 2024-2025 Curriculum Chart

### Calculus

*(Complete one sequence.)*

<b>AM 11A/Econ 11A</b> Math Methods for Econ I Prerequisites: Math 3 or AM 3 or Math Placement Score of 300 or more	&	<b>AM 11B/Econ 11B</b> Math Methods for Econ II Prerequisites: AM 11A or Econ 11A or Math 11A or Math 19A
<b>MATH 11A</b> Calculus with Applications Prerequisites: Math 3 or AM 3 or Math Placement Score of 300 or higher	&	<b>MATH 11B</b> Calculus with Applications Prerequisites: Math 11A or 19A
<b>MATH 19A</b> Calculus for Sci., Engr. & Math Prerequisites: Math 3 or Math Placement score of 400 or more	&	<b>MATH 19B</b> Calculus for Sci., Engr. & Math Prerequisites: Math 19A
<b>MATH 20A</b> Honors Calculus Prerequisites: Math Placement Score of 500+ or AP/IB Score Placement	&	<b>MATH 20B</b> Honors Calculus Prerequisites: Math 20A

### Probability & Statistics

<b>STAT 5</b> Statistics	OR	<b>STAT 7/L</b> Statistical Methods Prerequisites: Math 3 or 11A or 19A or Math Placement score of 300 or more	OR	<b>STAT 17/L</b> Statistical Methods for Business and Economics Prerequisites: Math 3 or 11A or 19A
<b>STAT 131</b> Probability Theory Prerequisites: AM 11B/Econ 11B or Math 11B or Math 19B	OR	<b>STAT 203</b> Probability Theory Prerequisites: Instructor permission	OR	<b>CSE 107</b> Probability & Statistics Prerequisites: CSE 16, and Am 30 or Math 22 or Math 23A
<b>STAT 132</b> Classical & Bayesian Inference Prerequisites: Stat 131 or CSE 107				

### Linear Algebra

<b>AM 10</b> Math Methods for Engineers I Prerequisites: Math Placement or Math 3	OR	<b>MATH 21</b> Linear Algebra Prerequisites: Math Placement or Math 3
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AM 20 or MATH 24 is also recommended

### Programming

*(Complete one course.)*

<b>BME 160</b> Research Programming Prerequisites: BIOL 20A
<b>CSE 20</b> Intro to Python
<b>CSE 30</b> Programming Abstractions: Python Prerequisites: CSE 20 or BME 160; and MATH 3 or MATH 11A or MATH 19A or Math Placement score of 400 or more
<b>ASTR 119</b> Intro to Scientific Computing Prerequisites: Math 11A or 19A or 20A
<b>MATH 152</b> Programming for Math Prerequisites: Math 100

### Multivariable Calculus

*(Complete one course/sequence)*

<b>AM 30</b> Multivariate Calculus for Engineers	Prerequisites: AM 10 or Math 21; Math 19B
<b>MATH 22</b> Calculus of Several Variables	Prerequisites: Math 11B or Math 19B or AM 15B
<b>MATH 23A</b> Vector Calculus	Prerequisites: Math 19A or AP Calc BC Score of 4 or 5
<b>MATH 23B</b> Vector Calculus	Prerequisites: Math 23A

Calculus Transition Series Policy

### Statistics Electives

\*Choose two electives from the following:

STAT 108 STAT 204 STAT 206 STAT 207 STAT 208 BME 205 ECE 145 CSE 142 ECON104	ECON 113 ECON 114 ECON 120 ECON 161B ECON 190 MATH 105A MATH 105B MATH 114 PSYC 181 TIM 147
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<b>ELECTIVE 1*</b> -----	<b>ELECTIVE 2*</b> -----
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### Computational Methods

<b>AM 147</b> Computational Methods & Applications Prerequisites: AM 10 or Math 21	OR	<b>Math 148/L</b> Numerical Analysis Prerequisites: AM 10 or Math 21; and Math 22 or 23A; and Math 24 or AM 20; and Math 103A or 105A or 152 or AM 147 or CSE 101
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**Note:** Students planning graduate work in statistics are recommended to choose Math 23A and Math 23B, Statistics 204, Statistics 205, and Math 105A and Math 105B.

The statistics minor is available for students who wish to gain a quantitative understanding of how to (a) measure uncertainty and (b) make good decisions on the basis of incomplete or imperfect information, and to apply these skills to their interests in another field. This minor could also be combined with a major in mathematics as preparation for a graduate degree in statistics or biostatistics.

## Statistics Minor 2024-2025 Curriculum Chart

Fall _____	Winter _____	Spring _____	Summer _____

  

Fall _____	Winter _____	Spring _____	Summer _____

  

Fall _____	Winter _____	Spring _____	Summer _____

  

Fall _____	Winter _____	Spring _____	Summer _____

Note:  
The prerequisites listed on this curriculum chart are accurate as of August 15, 2024 according to UCSC's general catalog. Prerequisites listed on this chart are subject to change and students should refer to the catalog for the most up to date requirements.