

# Applied Mathematics & Statistics: Statistics Minor 2016-2017 Curriculum Chart

### Calculus

*(Complete one sequence.)*

<b>AMS or ECON 11A</b> Math Methods for Econ I	&	<b>AMS or ECON 11B</b> Math Methods for Econ II
<b>AMS 15A</b> Case-Study Calculus I	&	<b>AMS 15B</b> Case-Study Calculus II
<b>MATH 11A</b> Calculus with Applications	&	<b>MATH 11B</b> Calculus with Applications
<b>MATH 19A</b> Calculus for Sci., Engr. & Math	&	<b>MATH 19B</b> Calculus for Sci., Engr. & Math
<b>MATH 20A</b> Honors Calculus	&	<b>MATH 20B</b> Honors Calculus

### Multivariable Calculus

<b>MATH 22</b> Calculus of Several Variables	OR	<b>MATH 23A</b> Vector Calculus
&		
<b>MATH 23B</b> Vector Calculus		

### Programming

*(Complete one course.)*

<b>CMPS 5C</b> Intro to C/C++
<b>CMPS 5J</b> Intro to Java
<b>CMPS 5P</b> Intro to Python
<b>CMPS 12A/L</b> Intro to Programming (Accelerated)
<b>CMPE 13/L</b> Comp. Systems & C Programming
<b>BME 160/L</b> Research Programming
<b>ASTR 119</b> OR <b>EART 119</b> Intro to Scientific Computing

### Linear Algebra

<b>AMS 10</b> Math Methods for Engineers I	OR	<b>MATH 21</b> Linear Algebra
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AMS 20 or MATH 24 is also recommended

### Computational Methods

<b>AMS 147</b> Computational Methods & Applications
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### Probability & Statistics

<b>AMS 5</b> Statistics	OR	<b>AMS 7/L</b> Statistical Methods		
<b>AMS 131</b> Probability Theory	OR	<b>AMS 203</b> Probability Theory	OR	<b>CMPE 107</b> Probability & Statistics
<b>AMS 132</b> Classical & Bayesian Inference				

### Statistics Electives

\*Choose two electives from the following:

<b>ELECTIVE 1*</b> _____	<b>AMS 156</b> <b>ECON 104</b>
<b>ELECTIVE 2*</b> _____	<b>AMS 198</b> <b>ECON 113</b>
	<b>AMS 202</b> <b>ECON 114</b>
	<b>AMS 205B</b> <b>ECON 120</b>
	<b>AMS 206B</b> <b>ECON 161B</b>
	<b>AMS 207</b> <b>ECON 190</b>
	<b>AMS 256</b> <b>EE 151</b>
	<b>BME 205</b> <b>MATH 114</b>
	<b>CMPE 108</b> <b>PSYC 181</b>
	<b>CMPE 145</b> <b>SOCY 103A</b>
	<b>CMPS 142</b> <b>TIM 230</b>

**Note:**

With permission from the AMS department, students may substitute any upper-division or graduate-level AMS course for an upper-division requirement. Students planning graduate work in statistics are recommended to choose Math 23A and 23B, Applied Mathematics and Statistics 205B, and Mathematics 105A and 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.

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Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Student Name:  Staff Advisor:  Faculty Advisor:
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