STATISTICS AND DATA SCIENCE MAJOR

Department Advanced Placement Policy

AP Calculus

Students who have received a score of 4 or 5 on the AP Calculus AB exam, or a subscore of 4 or 5 on the AP Calculus BC Exam, will earn credit for MATH 135 Calculus 1 and are advised to take MATH 136 Calculus 2. Students will forfeit their credit if they opt to take MATH 133 Calculus 1 with Fundamentals or MATH 135 Calculus 1. Students who receive a score of 4 or 5 on the AP Calculus BC exam will earn credit for MATH 136 Calculus 2 and are advised to take MATH 241 Multivariable Calculus. Students will forfeit their credit if they opt to take MATH 133 Calculus 1 with Fundamentals, MATH 135 Calculus 1 or MATH 136 Calculus 2.

AP Computer Science

Students with a score of 4 or 5 on the AP Computer Science A exam earn one unit of credit for CSCI 131 Techniques of Programming. Students with AP Computer Science A credit will forfeit their AP credit if they opt to take either CSCI 131 or CSCI 110. AP Computer Science A credit counts towards fulfilling the statistics and data science major requirements. A score of 4 or 5 on the AP Computer Science Principles exam will earn one unit of credit for CSCI 110. This course does not count toward fulfilling the statistics and data science major requirements. A score of 4 or 5 on either AP Computer Science exam fulfills the mathematical science common area requirement.

AP Statistics

Students who have received a score of 4 or 5 on the AP Statistics exam will earn one unit of credit for ECON 249 Statistics. Students will forfeit their AP credit if they opt to take any 100- or 200-level statistics course at the College, including STAT 120 Statistical Reasoning, STAT 220 Statistics, BIOL 275 Biological Statistics, ECON 149 Statistical Analysis, ECON 249 Statistics, PSYC 200 Statistics, and SOCL 226 Social Statistics.

Requirements

The following courses are required:

Code	Title
Required Courses	
MATH 135	Calculus 1
or MATH 133	Calculus 1 with Fundamentals
MATH 136	Calculus 2
MATH 241	Multivariable Calculus
CSCI 131	Techniques of Programming
Select one of the following introductory statistics courses:	
BIOL 275	Biological Statistics
ECON 149	Statistical Analysis
ECON 249	Statistics
PSYC 200	Statistics
SOCL 226	Social Statistics
STAT 220	Statistics
Required Courses:	
STAT 231	Linear Models
STAT 232	Categorical Data Analysis
STAT 375	Probability Theory
STAT 376	Statistical Inference
Select three of the following elective courses, with at least one at the 300-level:	
STAT 225	Experimental Design
STAT 226	Bayesian Statistics
STAT 299-F24	Causal Inference
STAT 299-S01	Computational Statistics
STAT 380	Statistical Computing
STAT 381	Statistical Learning
STAT 392	Seminar
STAT 400	Directed Reading
STAT 410	Directed Project
ACCT 286	Data Analytics
BIOL 383	Applied Evolution
CSCI 307	Data Mining
CSCI 357	Machine Learning
MATH 243	Mathematical Structures
MATH 244	Linear Algebra
MATH 361	Real Analysis 1

Note: Students who double major in mathematics and statistics can count the following courses towards both programs: CSCI 131, MATH 133/135, MATH 136, MATH 241, and STAT 375