Program: Actuarial Science  
Major: Actuarial Science  
Degree: Bachelor of Science (B.S.)  
Dept: Mathematics and Statistics  
College: Mathematics and Statistics  
Major Code: 6140  

University Core (Total Listed 42-44)

Specific courses within the University Core are listed on pages 96-97.  
* Courses from the major may apply to the areas marked in the University Core.

Written and Oral Communication ........................................... 9
Quantitative Reasoning/Scientific Method ................................ 10-11
* Math......................................................... 3
Life Science ....................................................... 4
Physical Science....................................................... 3-4
Critical Inquiry and Aesthetic Analysis ....................................... 6
Aesthetic Analysis......................................................... 3
Critical Inquiry......................................................... 3

Prerequisite Courses

Prerequisite Courses .......................................................... 0-6
Required courses:
MATH 1533 Algebra for STEM OR Placement Score AND
MATH 1593 Plane Trigonometry OR Placement Score

Upon completion of the above courses, corresponding university core requirements will be satisfied. (These courses are required for this major regardless of previous degrees conferred.)

Major Requirements

Actuarial Science ..................................................................... 66
Mathematics Core .................................................................... 18
Required courses:
MATH 2313 Calculus 1
MATH 2323 Calculus 2
MATH 2333 Calculus 3
MATH 2343 Calculus 4
MATH 2753 Technology for Professional Math and Statistics
MATH 3143 Linear Algebra

Actuarial Core .......................................................................... 12
Required courses:
# MATH 3133 Theory of Interest 1
# MATH 4133 Theory of Interest 2
# MATH 4223 Mathematics of Life Contingencies 1
# MATH 4233 Mathematics of Life Contingencies 2

Statistics Core .......................................................................... 15
Required courses:
# STAT 2113 Statistical Methods
# STAT 4113 Mathematical Statistics 1
*# STAT 4123 Mathematical Statistics 2
# STAT 4213 Applied Regression Analysis
# STAT 4533 Data Mining & Statistical Learning

Finance and Insurance Electives ............................................... 15
Select from the following:
* ACCT 2113 Accounting I
* ECON 2103 Principles of Microeconomics
* ECON 2203 Principles of Macroeconomics
FIN 3523 Foundations of Insurance and Risk Management
FIN 3553 Property and Liability Insurance for the Firm

American Historical and Political Analysis ................................. 6
American National Government ............................................. 3
American History ............................................................... 3

Cultural and Language Analysis .............................................. 3-4
Second Language .................................................................... 4
OR
Cultural Analysis ..................................................................... 3

Social and Behavioral Analysis ............................................... 3
Life Skills .............................................................................. 5
Required Health Course ........................................................ 2
Elective Life Skills ................................................................... 3

Minimum Grade Requirements

1. Average in (a) all college course work, (b) course work at UCO, and (c) major courses .............................................. 2.50
2. A minimum grade of “C” must be earned in all courses in the major to count toward meeting degree requirements.

For other regulations pertaining to graduation, see pages 68-69 of the 2018-2019 catalog.