Math Major with Actuarial Track Requirements
Catalog Year: 2015-16
Degree: Bachelor of Science
Credit Hours: 52+

“PR” indicates a pre-requisite. “CO” indicates a co-requisite.

Courses within this major may also satisfy general education requirements. Please consult http://registrar.cofc.edu/general-edu for more information.

Required Courses

☐ MATH 120 Introductory Calculus (4) PR: Placement or C- or better in MATH 111
☐ MATH 203 Linear Algebra (3) PR: MATH 120 or instructor permission
☐ MATH 220 Calculus II (4) PR: MATH 120 or HONS 115
☐ MATH 221 Calculus III (4) PR: MATH 220

Select one of the following tracks (Actuarial, Applied, Pure, or Statistics):

Actuarial Track

☐ MATH 250 Statistical Methods I (3) PR: MATH 105 with a C- grade or better or MATH 111 or MATH 120 or permission of instructor
☐ MATH 350 Statistical Methods II (3) PR: MATH 120 and MATH 250
☐ MATH 430 Mathematical Statistics I (3) PR: MATH 221
☐ MATH 431 Mathematical Statistics II (3) PR: MATH 430

Select one of the following course/lab pairings:

☐ _____________ ☐ _____________ lab

CSCI 220 Computer Programming I (3) PR: CSCI 120 or CSCI 180 or MATH 111 or higher or department permission
CSCI 220L Computer Programming I Lab (1) PR or CO: CSCI 220

OR

☐ MATH 245 Numerical Methods and Mathematical Computing (3) PR: MATH 203 or MATH 220 or instructor permission; CO: MATH 246
☐ MATH 246 Mathematical Computing and Programming Lab (1) PR: MATH 220 or instructor permission

Select 3 additional credit hours from the following:

☐ _____________

☐ MATH 440 Statistical Learning I (3) PR: MATH 203 and MATH 220 and MATH 350
☐ MATH 445 Numerical Analysis (3) PR: MATH 203 and MATH 245 and MATH 323
☐ MATH 449 Linear Models (3) PR: MATH 203 and MATH 350
☐ MATH 451 Linear Programming and Optimization (3) PR: MATH 203 and MATH 221, and CSCI 220 or MATH 245, or instructor permission
☐ MATH 460 Stochastic Processes (3) PR: MATH 430
☐ MATH 461 Time Series (3) PR: MATH 430

Business Coursework

☐ ACCT 203 Financial Accounting (3) PR: Sophomore standing
☐ ACCT 204 Managerial Accounting (3) PR: ACCT 203; sophomore standing
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>ECON 200</td>
<td>Principles of Microeconomics (3) PR: None</td>
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<td>ECON 201</td>
<td>Principles of Macroeconomics (3) PR: ECON 200</td>
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<td>FINC 303</td>
<td>Business Finance (3) PR: ACCT 203, 204, ECON 200, 201, MATH 104/250; junior standing</td>
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<tr>
<td>FINC 385</td>
<td>Individual Risk Management and Insurance (3) PR: Junior standing</td>
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