Math Major with Actuarial Track Requirements
Catalog Year: 2014-15
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 220  Calculus II (4) PR: MATH 120 or HONS 115
☐ MATH 203  Linear Algebra (3) PR: MATH 120 or instructor permission
☐ MATH 221  Calculus III (4) PR: MATH 220

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

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 CSCI 210 or MATH 111 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 451  Linear Programming and Optimization (3) PR: MATH 203 and MATH 221, and CSCI 220 or MATH 245, or instructor permission

Business Coursework
☐ ACCT 203  Financial Accounting (3) PR: Sophomore standing
☐ ACCT 204  Managerial Accounting (3) PR: ACCT 203; Sophomore standing
☐ ECON 200  Principles of Microeconomics (3) PR: None
☐ ECON 201  Principles of Macroeconomics (3) PR: ECON 200
☐ FINC 303  Business Finance (3) PR: ACCT 203, 204, ECON 200, 201, MATH 104/250; junior standing

☐ FINC 385  Individual Risk Management and Insurance (3) PR: Junior standing