

## 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:

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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*