

Central Connecticut State University
School of Engineering, Science, and Technology

Degree: Bachelor of Arts
Program: Mathematics
Specialization: Actuarial Science
Effective Term: Fall 2025

Name: _____

ID#: _____

General Education: Ways of Understanding:

Arts & Humanities (9 credits)

| | Credits | Grade |
|--------------------|---------|-------|
| English Literature | 3 | |
| | | |
| | | |

Social & Behavioral Sciences (12 credits)

| | Credits | Grade |
|-----------|---------|-------|
| History | 3 | |
| ECON 200* | 3 | |
| ECON 201* | 3 | |
| | | |

*Strongly recommended

Math & Natural Sciences (11-12 credits)

| | Credits | Grade |
|---------------------------------|---------|-------|
| Natural Science course with lab | 3-4 | |
| MATH 152 | X | |
| MATH 221 | X | |

General Education: Essential Skills:

Written & Oral Communication (6 credits)

| | Credits | Grade |
|----------------|---------|-------|
| WRT 105 or 110 | 3 | |
| | | |

World Language (0-6 credits) or GenEd Free Elective (3 credits)

| | Credits | Grade |
|--|---------|-------|
| World Language course numbered 112 or 118* or Gen Ed Free Elective | 3 | |

Thriving in College (2-3 credits)

| | Credits | Grade |
|--------------------------------|---------|-------|
| CCSU 102, 103, or FYE course** | 2-3 | |

A maximum of 16 credits (4 courses) applied towards Ways of Understanding and Essential Skills requirements may be used to fulfill a major and/or minor requirement.

International & Equity, Justice, & Inclusion (EJI) Requirements:

| | Credits | Grade |
|---------------------------------|---------|-------|
| International | 3 | |
| International | 3 | |
| Equity, Justice, & Inclusion*** | 3 | |

Coursework applied toward International & EJI requirements may be used in any other area of general education or program requirements.

Honors Program: HON courses can be used to fulfill certain general education requirements. Consult the Honors Program curriculum for details.

Residency Requirements: A minimum of 30 credits overall must be completed in residence, with at least 15 credits in the major (at least 12 of which must be at the 300 level or above) and 9 credits in a minor at Central. In residence means attending classes conducted on campus or under supervision of Central.

* Students with 3 years, or more, of one world language at the high school level, a passing score on a world language placement exam, or native proficiency in a language other than English will have the World Language requirement waived and can satisfy this requirement with any general education free elective course (3cr).

** Transfer students with 24 or more transfer credits at the time of admission can satisfy this requirement with any general education free elective (3cr).

*** Waived for transfer students with 50 or more transfer credits at the time of admission.

Major Requirements (58 credits)

Requires grade of C- or higher, unless otherwise specified.

| | Credits | Grade |
|---|---------|-------|
| MATH 152 Calculus I | 4 | |
| MATH 218 Discrete Mathematics | 4 | |
| MATH 221 Calculus II | 4 | |
| MATH 222 Calculus III | 4 | |
| MATH 228 Introduction to Linear Algebra | 4 | |
| STAT 315 Mathematical Statistics I | 3 | |
| STAT 416 Mathematical Statistics II | 3 | |
| STAT 425 Loss and Frequency Distributions and Credibility Theory | 3 | |
| ACTL 335 Financial Mathematics I | 3 | |
| ACTL 465 Long Term Actuarial Models | 4 | |
| ACTL 466 Short Term Actuarial Models | 4 | |
| Electives (as approved by advisor, choose 18 credits): AC 211 or 212 or ACTL 481 or 482 or CS 151 or 152 or 213 or 473 or ECON 460 or FIN 295 or 301 or 310 or 320 or 321 or LAW 250 or MATH 300 or 355 or 366 or 377 or MGT 295 | 18 | |
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Is a Minor Required with this Major?

Yes No

Total Credits Required for Degree: 120