

COMPSCI 347

ENGLISH 370

PWP 371

PWP 372

3 units

3 units

3 units

3 units

Scientific Computing

Advanced Composition

Writing in the Sciences

Technical and Scientific Writing

Unique Writing Requirement (3 units) — select one of the following:

MATHEMATICS MAJOR Actuarial Science Emphasis (BA/BS) (40 units)

Effective beginning Fall 2021 An approved minor is required for this major

For students interested in a career as an actuary.

| COURSES | | | OFFERED* | * PRE-REQUISITE |
|--|---------|---------------------------------------|----------|--|
| Major Requirements: | | | | |
| MATH 200 | 1 unit | Mathematics: Form and Function | S | CoReq: MATH 253 |
| MATH 253 | 5 units | Calculus and Analytic Geometry I (GQ) | E | MATH 152 or (MATH 142 and 151) each with C or better |
| MATH 254 | 4 units | Calculus and Analytic Geometry II | E | MATH 253 or (MATH 250 and 151) or (MATH 250 and 152) each with C or better |
| MATH 255 | 4 units | Calculus and Analytic Geometry III | E | MATH 254 with C or better |
| MATH 280 | 3 units | Discrete Mathematics | E | MATH 250 with B or better or MATH 253 with C or better |
| MATH 301 | 3 units | Introduction to Analysis | E | MATH 254 with C or better and MATH 280 |
| MATH 343 | 3 units | Applied Probability Theory | F | MATH 250 or 253 with C or better |
| MATH 346 | 3 units | Theory of Interest | S | MATH 254 with C or better |
| MATH 355 | 3 units | Matrices and Linear Algebra | E | MATH 253 or (MATH 250 and 151) or (MATH 250 and 152) each with C or better |
| MATH 442 | 4 units | Mathematical Statistics | S | MATH 255 with C or better and MATH 343 with C or better |
| STAT 263 | 1 unit | Introduction to R | E | CoReq: MATH 250 or MATH 253 |
| STAT 342 | 3 units | Applied Statistics | E | MATH 250 or 253 with C or better and STAT 263, CS 172, or CS 174 |
| STAT 420 | 3 units | Applied Regression Analysis | F | STAT 342 or consent of instructor |
| Unique Computer Science Requirement (3 units) — select one of the following: | | | | |
| COMPSCI 170 | 3 units | Introduction to Python Programming | | |
| COMPSCI 172 | 3 units | Introduction to JAVA (GM) | | |
| COMPSCI 174 | 3 units | Introduction to C++ (GM) | 7 | <u>MILESTONES</u> |
| COMPSCI 220 | 3 units | Intermediate JAVA | 7 | Math Exit Interview |
| COMPSCI 222 | 3 units | Intermediate C++ | 7 | GPA Requirement of 2.0 |

E = Every Semester

S = Every Spring

F = Every Fall

 ${\tt R}={\tt On\ Rotation};$ semester offerings will vary