

Actuarial Science (B.B.A.) Degree Plan

This document is a suggested four-year schedule of courses based on degree requirements for the current catalog. This guide is not a substitute for academic advisement. Also see the Undergraduate Catalog for a complete list of requirements and electives from which to choose.

| First Year | | | | | | |
|------------|---|--|--------------|-------------|---|-----------|
| Fall Term | | | Hours | Spring Term | | Hours |
| ENGL 1101 | English Composition I | | 3 | ENGL 1102 | English Composition II | 3 |
| MATH 1113 | Pre-calculus | | 3 | PHIL 1010 | Critical Thinking | 2 |
| POLS 1101 | American Government | | 3 | MATH 2211 | Calculus I | 4 |
| GSU 1010 | New Student Orientation | | 0 | BUSA 1105 | Business, Value and You | 3 |
| ECON 2105 | Principals of Macroeconomics (RCB Area F) | | 3 | ECON 2106 | Principals of Microeconomics (RCB Area F) | 3 |
| | Humanities/Fine Arts/Language (Area C) | | 3 | | | |
| | | | Total | | | 15 |

Milestones

Complete Area A requirements • Begin Area F courses (minimum 2.8 GPA required for the Area) • Meet with Academic Advisor in the University Advisement Center • Attend the major fair and declare a major

| Second Year | | | | | | |
|-------------|---|--|--------------|-------------|--|-----------|
| Fall Term | | | Hours | Spring Term | | Hours |
| ACCT 2101 | Principals of Accounting I (RCB Area F) | | 3 | ACCT 2102 | Principals of Accounting II (RCB Area F) | 3 |
| CIS 2010 | Introduction to Computer based Information Systems (RCB Area F) | | 3 | HIST 2110 | Survey of United State History | 3 |
| MATH 2212 | Calculus II | | 4 | MATH 2215 | Multivariate Calculus | 4 |
| | Natural Science Elective (Area D) | | 4 | | Natural Science Elective (Area D) | 4 |
| | Word History & Politics Elective (Area E) | | 3 | | Social Science Elective (Area E) | 3 |
| | | | Total | | | 17 |

Milestones

Complete Area F courses with a minimum GPA of 2.8 • Complete all core courses • Meet with Academic Advisor in the University Advisement Center

| Third Year | | | | | | |
|------------|---|--|--------------|-------------|---|-----------|
| Fall Term | | | Hours | Spring Term | | Hours |
| BCOM 3950 | Business Communication and Professional Development | | 3 | AS 4140 | Mathematical Foundations of Actuarial Science | 3 |
| FI 3300 | Corporate Finance | | 3 | MATH 4752 | Mathematical Statistics II | 3 |
| MATH 4751 | Mathematical Statistics I | | 3 | FI 4090 | Financial Data Analytics | 3 |
| AS 3230 | Financial Mathematics | | 3 | MK 3010 | Marketing Management | 3 |
| LGLS 3610 | Legal and Ethical Environment Business | | 3 | MGT 3400 | Managing People & Organizations | 3 |
| | | | Total | | | 15 |

Milestones

Meet with Academic Advisor in the University Advisement Center • Register with the RCB Career Management Center • *Take SoA exam in May

| Fourth Year | | | | | | |
|--------------------|---|--|--------------|--------------------|--|-----------|
| Fall Term | | | Hours | Spring Term | | Hours |
| AS 4320 or AS 4340 | Loss Models & Credibility or Life Contingencies I | | 3 | BUSA 4980 | Strategic Management | 3 |
| AS 4510 | Derivative Valuation & Risk Management | | 3 | BUSA 4990 | Exit Exam | 0 |
| RMI 4680 | Regression Modeling | | 3 | AS 4350 or AS 4360 | Ratemaking & Loss Reserving or Life Contingencies II | 3 |
| | Humanities and Fine Arts Elective (Area C) | | 3 | RMI 4990 | Risk Clinic | 3 |
| BUSA 4000 | Global Business | | 3 | PERS 2001 | Perspectives | 3 |
| | | | Total | | | 15 |
| | | | | BUSA 4980 | Strategic Management | 3 |

B.B.A. Program of Study Worksheet Major in Actuarial Science

Lower Division Coursework

| Area A: Written Communication/Mathematics (9 hours) | | Satisfied (v) |
|---|------------------------|---------------|
| ENGL 1101 | English Composition I | |
| ENGL 1102 | English Composition II | |
| MATH 1113 (or higher) | Pre-calculus | |

| Area B: Institutional Foundations (4 hours) | | Satisfied (v) |
|---|--|---------------|
| PHIL 1010 | Critical Thinking | |
| SPCH 1000 | Human Communication | |
| PERS 2001 | Perspectives on Comparative Culture | |
| PERS 2002 | Scientific Perspectives on Global Problems | |

| Area C: Humanities and Fine Arts (6 hours) | | Satisfied (v) |
|--|--|---------------|
| <i>Courses must be from two of the following three areas</i> | | |
| Humanities Course: | | |
| Fine Arts Course: | | |
| Foreign Language Course: | | |

| Area D: Natural and Computational Sciences (11 hours) | | Satisfied (v) |
|--|------------|---------------|
| <i>Two lab science courses must be taken in sequence</i> | | |
| Natural Science Course: | | |
| Natural Science Course: | | |
| MATH 2211 | Calculus I | |

| Area E: Social Sciences (12 hours) | | Satisfied (v) |
|------------------------------------|-------------------------------------|---------------|
| POLS 1101 | Introduction to American Government | |
| HIST 2110 | Survey of United States History | |
| World History and Politics Course: | | |
| Social Science Course: | | |

| Area F: Business Foundation (18 hours) | | Satisfied (v) |
|--|-------------------------------|---------------|
| ACCT 2101 | Principals of Accounting I | |
| ACCT 2102 | Principals of Accounting II | |
| BUSA 1105 | Legal Environment of Business | |
| CIS 2010 | Introduction to Computer | |

| | | |
|-----------|------------------------------|--|
| | based Information Systems | |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |

Upper Division Coursework

| 3000-level Business Core (18 hours) | | Satisfied (v) |
|-------------------------------------|---|---------------|
| BCOM 3950 | Business Communication and Professional Development | |
| LGLS 3610 | Legal and Ethical Environment of Business | |
| FI 3300 | Corporation Finance | |
| MATH 4751 | Mathematical Statistics | |
| MGT 3400 | Managing People in Organizations | |
| MK 3010 | Marketing Management | |

| 3000 and 4000-level Major Courses (21 hours) | | Satisfied (v) |
|--|---|---------------|
| AS 3230 | Financial Mathematics | |
| AS 4140 | Probability | |
| AS 4320 or AS 4340 or AS 4510 | Loss Models & Credibility or Life Contingencies I Derivative Valuation & Risk Management | |
| AS 4360 or AS 4350 | Ratemaking & Loss Reserving or Life Contingencies II | |
| RMI 4680 | Regression Modeling | |
| RMI 4990 | Risk Clinic | |

| 3000 and 4000-level RCB Electives (6 hours) | | Satisfied (v) |
|---|--|---------------|
| RMI 4020 or RMI 4400 or RMI 4700 | Probability & Liability Insurance Tech Insurance Operations | |
| MATH 4752 | Mathematical Statistics II | |

| 3000 and 4000-level General Electives (9 hours) | | Satisfied (v) |
|---|-----------------------|---------------|
| Math 2212 | Calculus II | |
| Math 2215 | Multivariate Calculus | |

| Strategic Management (3 hours) | | Satisfied (v) |
|--------------------------------|----------------------|---------------|
| BUSA 4980 | Strategic Management | |
| BUSA 4990 | Exit Exam | |
| BUSA 4000 | Global Business | |

