

Bachelor of Science: Actuarial Science Major Curriculum Guide

GENERAL EDUCATION REQUIREMENTS 31-34 Credits

International Perspectives (3)

Select from University approved list.

US Diversity (3)

Select from University approved list.

US Diversity might also count as 3 of 9 credits of Humanities & Social Sciences.

Communications (13)

ENGL 150	Critical Thinking and Communication (3)
ENGL 250	Written, Oral, Visual Electronic Composition (3)
ENGL 302	Business Communication (3)
SP CM 312	Business and Professional Speaking (3)
LIB 160	Introduction to College Level Research (1)

Humanities & Social Sciences (9)

Select from College approved list.

Global Perspectives (6)

Select from University approved International Perspectives list.

International Perspectives may count as 3 of 6 credits here.

Natural Science (3)

Select from College approved list.

FOUNDATION COURSES 21 Credits

BUSAD 102 or 103	Orientation (1)
BUSAD 203	Professional Development in Business (1)
COM S 113	Introduction to Spreadsheets and Databases (3)
MATH 165	Calculus I (4) *
ECON 101	Principles of Microeconomics (3)
ECON 102	Principles of Macroeconomics (3)
STAT 226	Introduction to Business Statistics (3)
ACCT 284	Financial Accounting (3)

*Requires C- or better

Strongly recommended that Foundation courses be completed within student's first 2-3 semesters.

SUPPORTING COURSES 17 Credits

PHIL 230	Moral Theory and Practice (3)
MATH 166	Calculus II (4) *
MATH 265	Calculus III (4) *
MATH 207	Matrices and Linear Algebra (3)
ACCT 215	Legal Environment of Business (3)

*Requires C- or better

BUSINESS CORE 27 Credits

ACCT 285	Managerial Accounting (3)
ENTSP 310	Entrepreneurship and Innovation (3)
FIN 301	Principles of Finance (3)
MGMT 371	Organizational Behavior (3)
MGMT 372	Ethical & Responsible Management (3)
MIS 301	Management Information Systems (3)
MKT 340	Principles of Marketing (3)
SCM 301	Supply Chain Management (3)

Credit or enrollment in all core courses (except MGMT 372) and senior standing required to take:

MGMT 478	Strategic Management (3) <i>[taken senior year]</i>
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ACTUARIAL SCIENCE MAJOR 23 Credits

MATH 240	Mathematics of Investment & Credit (3)
STAT 341	Intro to Theory of Probability & Statistics I (4)
ACSCI 401	Loss Models I (3)
FIN 455	Risk Modeling (3)
ACSCI 402	Credibility Theory (3)
STAT 342	Intro to Theory of Probability & Statistics II (4)
MATH 441	Life Contingencies I (3)

ELECTIVES 0-3 Credits

ACSCI 391 or 392 (1 cr each); FIN 310 or 424; MATH 442 (3 cr each) are recommended electives (if needed) to reach 122 credits.

Additional Graduation Requirements:

1. Minimum of 122 credits total,
2. 42 credits of 300-level or higher coursework from a four-year institution,
3. Grade of "C or better" in ENGL 250 and grade of "C or better" in ENGL 150 or ENGL 302,
4. Grade of "C or better" in at least 30 credits applied to Business Core and major,
5. 50% of required business courses must be earned at Iowa State University,
6. Last 32 credits applied to the degree must be taken at Iowa State University (exceptions for study abroad and internship may be requested),
7. All 300-level and higher business courses must be earned at a four-year college or university,
8. Cumulative GPA of at least 2.0 with no Quality Point Deficiencies,
9. Multiple business majors must have at least 15 distinct credits in each. When applicable, one course can be shared between business majors. (See your advisor regarding multiple business degree requirements.)

Notes Pertaining to the Curriculum:

- No courses taken for the business degree can be taken Pass-Not Pass (only non-business "free" electives may be taken P-NP).
- Business course prerequisites are monitored and will be enforced. 4.24.23