

Bachelor of Science: *Actuarial Science* Major Curriculum Guide

UNIVERSITY GENERAL EDUCATION

10-13 Credits

International Perspectives (3)

Select from University approved list.

US Cultures and Communities (3)

Select from University approved list.

*US Cultures and Communities might also count as 3 of 9 credits of Humanities & Social Sciences.***ENGL 1500** Critical Thinking and Communication (3)**ENGL 2500** Written, Oral, Visual Electronic Composition (3)**LIB 1600** Introduction to College Research (1)

IVY GENERAL EDUCATION

18-21 Credits

ENGL 3020

Business Communication (3)

SPCM 3120

Business and Professional Speaking (3)

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 1020/1030	Orientation (1)
BUSAD 2030	Professional Development in Business (1)
COM S 1130	Introduction to Spreadsheets and Databases (3)
MATH 1650	Calculus I (4) *
ECON 1010	Principles of Microeconomics (3)
ECON 1020	Principles of Macroeconomics (3)
STAT 2260	Introduction to Business Statistics (3)
ACCT 2840	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 2300	Moral Theory and Practice (3)
MATH 1660	Calculus II (4) *
MATH 2650	Calculus III (4) *
MATH 2070	Matrices and Linear Algebra (3)
ACCT 2150	Legal Environment of Business (3)

*Requires C- or better

ACTUARIAL SCIENCE MAJOR

23 Credits

MATH 2400	Mathematics of Investment & Credit (3)
STAT 3410	Intro to Theory of Probability & Statistics I (4)
ACSCI 4010	Loss Models I (3)
FIN 4550	Risk Modeling (3)
ACSCI 4020	Credibility Theory (3)
STAT 3420	Intro to Theory of Probability & Statistics II (4)
MATH 4410	Life Contingencies I (3)

ELECTIVES

0-3 Credits

ACSCI 3910 or 3920 (1 cr each); FIN 3100 or 4240; MATH 4420 (3 cr each) are recommended electives (if needed) to reach 122 credits.

BUSINESS CORE

27 Credits

ACCT 2850	Managerial Accounting (3)
ENTSP 3100	Entrepreneurship and Innovation (3)
FIN 3010	Principles of Finance (3)
MGMT 3710	Organizational Behavior (3)
MGMT 3720	Responsible Management & Leadership in Business (3)
MIS 3010	Management Information Systems (3)
MKT 3400	Principles of Marketing (3)
SCM 3010	Supply Chain Management (3)

*Credit or enrollment in all core courses (except MGMT 3720) and senior standing required to take:*MGMT 4780 Strategic Management (3)
[taken senior year]

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).

Course prerequisites are monitored and will be enforced.

Additional Graduation Requirements:

1. Minimum of 122 credits total,
2. 42 credits of 3000-level or higher coursework from a four-year institution,
3. Grade of "C or better" in ENGL 2500 and grade of "C or better" in ENGL 1500 or ENGL 3020,
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 a degree must be taken at Iowa State University (exceptions for study abroad and internship may be requested),
7. All 3000-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.