Actuarial Science, B.S.

Academic Plans

Four-Year Graduation Plan

The following checkpoints list the minimum requirements students must complete by certain semesters in order to stay on the University's Four-Year Graduation Plan. Courses in the major are those required to complete the major; they may be offered by departments other than the major department. Much of the coursework is sequential, so students must begin requirements for the major as soon as possible. Individual study plans must be made carefully. Students who first enroll for a spring semester must consult their advisor to confirm a four-year plan.

Before the third semester begins: MATH:1860 Calculus II and MATH:2700 Introduction to Linear Algebra.


Before the eighth semester begins: ACTS:4280 Life Contingencies II.

During the eighth semester: enrollment in all remaining coursework in the major, all remaining GE CLAS Core courses, and a sufficient number of semester hours to graduate.

Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

Actuarial Science, B.S.

Course	Title	Hours

Academic Career

Any Semester

Students apply to the Actuarial Science BS program through a selective process. Acceptance is not guaranteed.²

First Year

Fall

MATH:1850	Calculus I²,³	4
RHET:1030 or ENGL:1200	Rhetoric or The Interpretation of Literature	3 - 4
CS:1210	Computer Science I: Fundamentals	4

GE CLAS Core: World Languages First Level Proficiency or elective course ² 4 - 5
CSI:1600	Success at Iowa	1
Attend the Actuarial Science, Insurance and Risk Management Job Fair during the fall semester to apply for summer internships.

Spring

MATH:1860	Calculus II	4
MATH:2700	Introduction to Linear Algebra	4
GE CLAS Core: Natural Sciences with Lab e 4
GE CLAS Core: World Languages Second Level Proficiency or elective course ² 4 - 5

Hours 16-18

Second Year

Fall

MATH:2850	Calculus III	4
STAT:3100	Introduction to Mathematical Statistics I f 3
GE CLAS Core: Social Sciences e 3
ENGL:1200 or RHET:1030	The Interpretation of Literature or Rhetoric	3 - 4
GE CLAS Core: World Languages Second Level Proficiency or elective course d 4 - 5
Admission Application: apply to the Actuarial Science BS major ²
Attend the Actuarial Science, Insurance and Risk Management Job Fair during the fall semester to apply for summer internships.

Hours 17-19

Spring

ACTS:4130	Quantitative Methods for Actuaries f, i 3
STAT:4100	Mathematical Statistics I f 3
FIN:3300	Corporate Finance ³, k, ³ 3
GE CLAS Core: Diversity and Inclusion e 3
GE CLAS Core: Natural Sciences without Lab e 3
Attend the Actuarial Science, Insurance and Risk Management Job Fair during the fall semester to apply for summer internships.

Hours 14-15

Third Year

Any Semester

The curriculum shown in the third and fourth years on this plan begins upon acceptance into the Actuarial Science BS program.

Hours 0

Fall

ACTS:4130	Quantitative Methods for Actuaries ³ 3
STAT:4100	Mathematical Statistics I ³ 3
FIN:3300	Corporate Finance ³, k, ³ 3
GE CLAS Core: Diversity and Inclusion e 3
GE CLAS Core: Natural Sciences without Lab e 3
Attend the Actuarial Science, Insurance and Risk Management Job Fair during the fall semester to apply for summer internships.

Hours 15

Spring

ACTS:4180	Life Contingencies I h, i 3
ACTS:4380	Mathematics of Finance II h, i 3
| STAT:4101  | Mathematical Statistics II  | 3 |
| GE CLAS Core: Historical Perspectives  | 3 |
| GE CLAS Core: Literary, Visual, and Performing Arts  | 3 |

**Fourth Year**

**Fall**

| ACTS:4280  | Life Contingencies  | 3 |
| STAT:4560  | Statistics for Risk Modeling  | 3 |
| STAT:4540  | Statistical Learning  | 3 |
| GE CLAS Core: International and Global Issues  | 3 |

Elective course  

Attend the Actuarial Science, Insurance and Risk Management Job Fair during the fall semester.

**Spring**

| ACTS:6480  | Loss Distributions  | 3 |
| ACTS:6580  | Credibility and Survival Analysis  | 3 |
| GE CLAS Core: Values and Culture  | 3 |

Elective course  

Elective course  

Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall)

**Total Hours**  

123-129

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a. The Academic Advising Center advises Actuarial Science Interest students on prerequisite course planning. Students are advised for success, based on academic strength, not necessarily for a four year plan. Prerequisites may take more than one and a half years to complete.

b. Fulfills a major requirement and may fulfill a GE requirement.

c. Enrollment in math courses requires completion of a placement exam.

d. Students who have completed four years of a single language in high school have satisfied the GE CLAS Core World Languages requirement. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course.

e. GE CLAS Core courses may be completed in any order unless used as a prerequisite for another course. Students should consult with an advisor about the best sequencing of courses.

f. Typically this course is offered in fall semesters only. Check MyUI for course availability since offerings are subject to change.

g. Ordinarily, students apply for admission to the actuarial science major in the fall semester of their sophomore year, after they have taken MATH:3770 or MATH:2850, and STAT:3100. Students should apply no later than the end of the spring semester of their junior year. For further details and application instructions, see your advisor and the Department of Statistics and Actuarial Science website.

h. Typically this course is offered in spring semesters only. Check MyUI for course availability since offerings are subject to change.

i. Restricted to Actuarial Science Majors. For further details and application instructions, see your advisor and the Department of Statistics and Actuarial Science website.

j. This course is a recommended elective, not a requirement. Students may choose another elective. Prerequisites may apply.

k. This course may count for VEE credit.

l. Students may use elective courses to earn credit towards the total s.h. required for graduation or to complete a double major, minors, or certificates.

m. Students may choose to complete ACTS:6480 and ACTS:6580 (both courses) instead of ACTS:4280, except honors students, who must complete all three courses.

n. Please see Academic Calendar, Office of the Registrar website for current degree application deadlines. Students should apply for a degree for the session in which all requirements will be met. For any questions on appropriate timing, contact your academic advisor or Graduation Services.