

# Statistics, BS

## 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 in statistics 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.

Courses must be taken in sequence, so students must begin work early.

**Before the fifth semester begins:** at least four courses in the major, including MATH:1850 Calculus I, MATH:1860 Calculus II, and STAT:2010 Statistical Methods and Computing.

**Before the seventh semester begins:** seven or eight courses in the major and at least 90 s.h. earned toward the degree.

**Before the eighth semester begins:** nine or ten courses in the major.

**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 Plans 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.

### Statistics, BS

Course	Title	Hours
<b>Academic Career</b>		
<b>Any Semester</b>		
GE CLAS Core: Sustainability <sup>a</sup>		
STAT:2010 Statistical Methods and Computing and STAT:3200 Applied Linear Regression are important prerequisites for advanced statistics classes and completing them earlier in the academic career provides for more elective options in later semesters.		
<b>Hours</b>		<b>0</b>
<b>First Year</b>		
<b>Fall</b>		
MATH:1850	Calculus I <sup>b</sup>	4
STAT:2010	Statistical Methods and Computing	3
CSI:1600	Success at Iowa	1
GE CLAS Core: World Languages First Level Proficiency or elective course <sup>c</sup>		4 - 5
Elective course <sup>d</sup>		2
<b>Hours</b>		<b>14-15</b>
<b>Spring</b>		
MATH:1860	Calculus II	4

STAT:3200	Applied Linear Regression	3
ENGL:1200	Interpreting Literature	3 - 4
or RHET:1030	or Rhetoric: Writing and Communication	
GE CLAS Core: World Languages Second Level Proficiency or elective course <sup>c</sup>		4 - 5
Elective course <sup>d</sup>		1

**Hours 15-17**

#### Second Year

##### Fall

MATH:2700	Introduction to Linear Algebra	4
STAT:3100	Introduction to Mathematical Statistics I <sup>e</sup>	4
ENGL:1200	Interpreting Literature	3 - 4
or RHET:1030	or Rhetoric: Writing and Communication	

GE CLAS Core: World Languages Third Level Proficiency or elective course <sup>c</sup>		4 - 5
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**Hours 15-17**

##### Spring

MATH:2850	Calculus III	4
STAT:3101	Introduction to Mathematical Statistics II <sup>f</sup>	3

GE CLAS Core: Understanding Cultural Perspectives <sup>g</sup>		3
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GE CLAS Core: World Languages Fourth Level Proficiency or elective course <sup>c</sup>		4 - 5
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Elective course <sup>d</sup>		1
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**Hours 15-16**

#### Third Year

##### Fall

CS:1210	Computer Science I: Fundamentals <sup>h</sup>	4
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Major: statistics advanced elective <sup>i</sup>		3
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GE CLAS Core: International and Global Issues <sup>g</sup>		3
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GE CLAS Core: Natural Sciences with Lab <sup>g</sup>		4
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Elective course <sup>d</sup>		1
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**Hours 15**

##### Spring

STAT:3210	Experimental Design and Analysis <sup>f</sup>	3
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Major: statistics advanced elective <sup>i</sup>		3
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GE CLAS Core: Literary, Visual, and Performing Arts <sup>g</sup>		3
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GE CLAS Core: Social Sciences <sup>g</sup>		3
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Elective course <sup>d</sup>		3
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**Hours 15**

#### Fourth Year

##### Fall

Major: statistics advanced elective <sup>i</sup>		3
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GE CLAS Core: Historical Perspectives <sup>g</sup>		3
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GE CLAS Core: Natural Sciences without Lab <sup>g</sup>		3
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Elective course <sup>d</sup>		3
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Elective course <sup>d</sup>		3
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**Hours 15**

##### Spring

Major: statistics advanced elective <sup>i</sup>		3
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Major: statistics advanced elective <sup>i</sup>		3
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GE CLAS Core: Values and Society <sup>g</sup>		3
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Elective course <sup>d</sup>	3
Elective course <sup>d</sup>	3
Elective course <sup>d</sup>	3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) <sup>j</sup>	
<b>Hours</b>	<b>18</b>
<b>Total Hours</b>	<b>122-128</b>

- a Sustainability must be completed by choosing a course that has been approved for Sustainability AND for one of these General Education areas: Natural Sciences; Quantitative or Formal Reasoning; Social Sciences; Historical Perspectives; International and Global Issues; Literary, Visual, and Performing Arts; or Values and Society.
- b Enrollment in math courses requires completion of a placement exam.
- c Students who have completed four levels of a single language or two levels of two different languages in high school or college have satisfied the GE CLAS Core World Languages requirement. Students who have completed three levels of a single language may complete a fourth-level course in the same language or may choose an approved World Language and Cultural Exploration course. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course. Contact your academic advisor or CLAS Undergraduate Programs Office with questions concerning the World Languages requirement.
- d 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.
- e Typically this course is offered in fall semesters only. Check MyUI for course availability since offerings are subject to change.
- f Typically this course is offered in spring semesters only. Check MyUI for course availability since offerings are subject to change.
- g 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.
- h Enrollment in this course requires completion of a placement exam.
- i Statistics majors must complete 15 s.h. of electives in addition to the core course of study. At most, 6 s.h. of these may come from domain electives. Most advanced statistics elective courses are only offered once per year. Check MyUI for course availability since offerings are subject to change.
- j Please see Academic Calendar, on 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 Degree Services.