

Informatics, B.S.

Academic Plans

Four-Year Graduation Plan

The Four-Year Graduation Plan is not available to B.S. students majoring in informatics. Students work with their advisors on individual graduation plans.

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.

Informatics, B.S.

- Bioinformatics Track [p. 1]
- Medical Informatics Track [p. 2]

Bioinformatics Track

Course	Title	Hours
First Year		
Fall		
ENGL:1200 or RHET:1030	The Interpretation of Literature or Rhetoric	3 - 4
GE CLAS Core: Diversity and Inclusion ^a		3
CHEM:1110	Principles of Chemistry I ^{b, c}	4
CS:1110	Introduction to Computer Science ^c	3
CSI:1600	Success at Iowa	2
Hours		15-16
Spring		
ENGL:1200 or RHET:1030	The Interpretation of Literature or Rhetoric	3
CS:2110	Programming for Informatics	4
CHEM:1120	Principles of Chemistry II	4
Elective course ^d		3
Hours		14
Second Year		
Fall		
GE CLAS Core: World Languages ^e First Level Proficiency or elective course		4 - 5
GE CLAS Core: Social Sciences ^a		3
CS:2520	Human-Computer Interaction for Informatics	3
BIOL:1411	Foundations of Biology	4
Elective course ^d		2
Hours		16-17
Spring		
GE CLAS Core: World Languages ^e Second Level Proficiency or elective course		4 - 5
GE CLAS Core: International and Global Issues ^a		3
CS:2620	Server-Side Development for Informatics	3
BIOL:1412	Diversity of Form and Function	4
Elective course ^d		2
Hours		16-17

Third Year

Fall

GE CLAS Core: World Languages ^e Second Level Proficiency or elective courses ^e		4 - 5
CS:2420	Analyzing Data for Informatics	3
Major: statistics requirement ^f		3
GE CLAS Core: Historical Perspectives ^a		3
Elective course ^d		3
Hours		16-17

Spring

GE CLAS Core: World Languages ^e Fourth Level Proficiency or elective course ^e		4 - 5
GE CLAS Core: Literary, Visual, and Performing Arts ^a		3
Major: Informatics advanced elective ^g		3
BIOL:2512	Fundamental Genetics	4
Elective course ^d		2
Hours		16-17

Fourth Year

Fall

GE CLAS Core: Values and Culture ^a		3
Major: Informatics advanced elective ^g		3
BIOL:3172	Evolution	4
Elective course ^d		3
Elective course ^d		2
Hours		15

Spring

CS:3910	Informatics Project	3
Major: advanced biology elective ^h		3
Major: advanced biology elective ^h		3
Elective course ^d		3
Elective course ^d		3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) ⁱ		
Hours		15
Total Hours		123-128

- 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.
- Enrollment in chemistry courses requires completion of a placement exam.
- Fulfills a major requirement and may fulfill a GE requirement.
- 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.
- 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.
- Choose from STAT:2010 or STAT:3510.
- BAIS:4220, or a computer science course (prefix CS) numbered 3000-4999, including CS:3990 for 3 s.h., but excluding CS:3910 and CS:4510.
- Students must choose from BIOL:2673, BIOL:3314, BIOL:4213 or BIOL:5320.
- 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.

Medical Informatics Track

Course	Title	Hours
First Year		
Fall		
ENGL:1200 or RHET:1030	The Interpretation of Literature or Rhetoric	3 - 4
GE CLAS Core: Diversity and Inclusion ^a		3
CHEM:1110	Principles of Chemistry I ^{b, c}	4
CS:1110	Introduction to Computer Science ^b	3
CSL:1600	Success at Iowa	2
Hours		15-16
Spring		
RHET:1030 or ENGL:1200	Rhetoric or The Interpretation of Literature	3 - 4
CS:2110	Programming for Informatics	4
CHEM:1120	Principles of Chemistry II ^b	4
Elective course ^d		3
Hours		14-15
Second Year		
Fall		
GE CLAS Core: World Languages First Level Proficiency or elective course ^e		4 - 5
GE CLAS Core: Social Sciences ^a		3
CS:2520	Human-Computer Interaction for Informatics	3
BIOL:1411	Foundations of Biology	4
Elective course ^d		2
Hours		16-17
Spring		
GE CLAS Core: World Languages Second Level Proficiency or elective course ^e		4 - 5
GE CLAS Core: International and Global Issues ^a		3
CS:2620	Server-Side Development for Informatics	3
BIOL:1412	Diversity of Form and Function	4
Elective course ^d		2
Hours		16-17
Third Year		
Fall		
GE CLAS Core: World Languages Second Level Proficiency or elective course ^e		4 - 5
CS:2420	Analyzing Data for Informatics	3
Major: statistics requirement ^f		3
GE CLAS Core: Historical Perspectives ^a		3
Elective course ^d		3
Hours		16-17
Spring		
GE CLAS Core: World Languages Fourth Level Proficiency or elective course ^e		4 - 5
GE CLAS Core: Literary, Visual, and Performing Arts ^a		3
Major: Informatics advanced elective ^g		3
CHEM:2210	Organic Chemistry I	3
Elective course ^d		3
Hours		16-17

Fourth Year

Fall		
GE CLAS Core: Values and Culture ^a		3
Major: Informatics advanced elective ^g		3
CHEM:2220	Organic Chemistry II	3
Elective course ^d		3
Elective course ^d		3
Hours		15
Spring		
CS:3910	Informatics Project	3
Major: advanced science elective ^h		3
Major: advanced science elective ^h		3
Elective course ^d		3
Elective course ^d		3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) ⁱ		
Hours		15
Total Hours		123-129

- a 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.
- b Fulfills a major requirement and may fulfill a GE requirement.
- c Enrollment in chemistry courses requires completion of a placement exam.
- 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 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.
- f Choose from STAT:2010 or STAT:3510.
- g BAIS:4220, or a computer science course (prefix CS) numbered 3000-4999, including CS:3990 for 3 s.h., but excluding CS:3910 and CS:4510.
- h Choose from BIOL:2512, BIOL:3172, CHEM:2410, HHP:1100 or HMP:4000.
- i 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.