

Informatics, Graduate Certificate

Requirements

The graduate Certificate in Informatics requires 19 s.h. of graduate credit. Students must earn a major program grade-point average of at least 3.00 in certificate coursework. The certificate program is designed for students enrolled in University of Iowa graduate degree programs who wish to study informatics as a complement to their degree program and for nondegree students who are interested in increasing their knowledge of informatics.

The Certificate in Informatics requires the following coursework.

Required Courses

Programming

Course #	Title	Hours
This course:		
CS:5110/IGPI:5110	Introduction to Informatics	3
One of these:		
CS:3010	Software Engineering Fundamentals in Java	3
CS:3210	Programming Languages and Tools	3
CS:3980	Topics in Computer Science I	3
SEES:3050/ IGPI:3050	Geospatial Programming	3

Statistics

Course #	Title	Hours
One of these:		
BIOS:4120	Introduction to Biostatistics	3
STAT:4143/ PSQF:4143	Introduction to Statistical Methods	3

Data Science

Course #	Title	Hours
One of these:		
BAIS:6480/ IGPI:6480	Knowledge Discovery	3
STAT:4540/ BAIS:4540/ DATA:4540/ IGPI:4540	Statistical Learning	3
An approved course (consult advisor)		3

Databases

Course #	Title	Hours
One of these:		
CS:4400	Database Systems	3
SEES:4580/ IGPI:4581	Introduction to Geographic Databases	3

Human Factors

Course #	Title	Hours
One of these:		
CS:4500	Research Methods in Human-Computer Interaction	3
CS:4510	Human-Computer Interaction for Computer Science	3
SEES:3540/ IGPI:3540	Geographic Visualization	3

Ethics

Course #	Title	Hours
This course:		
CS:5980	Topics in Computer Science III	1

For more information about certificate requirements, see the Interdisciplinary Graduate Program in Informatics website.

Admission

Certificate program applicants may be degree or nondegree graduate students. Applicants who are enrolled in a University of Iowa graduate degree program must be in good academic standing in their program.

Applicants must meet the admission requirements of the Graduate College; see the Manual of Rules and Regulations on the Graduate College website.

Academic Plans

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.

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Course	Title	Hours
Academic Career		
Any Semester		
The graduate certificate in informatics requires 19 s.h. of graduate credit.		
		Hours
		0
First Year		
Fall		
CS:5110	Introduction to Informatics	3
		Hours
		3
Spring		
Certificate: programming elective course ^a		3
		Hours
		3
Second Year		
Fall		
STAT:4143 or BIOS:4120	Introduction to Statistical Methods or Introduction to Biostatistics	3
		Hours
		3

Spring

CS:4510 or SEES:3540 or CS:4500	Human-Computer Interaction for Computer Science ^b or Geographic Visualization or Research Methods in Human- Computer Interaction	3
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Hours **3**

Third Year**Fall**

STAT:4540 or BAIS:6480	Statistical Learning or Knowledge Discovery	3
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Hours **3**

Spring

CS:5980	Topics in Computer Science III	1
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Hours **1**

Fourth Year**Fall**

SEES:4580 or CS:4400	Introduction to Geographic Databases or Database Systems	3
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Hours **3**

Total Hours **19**

a Students must complete one course from CS:3010, CS:3210, CS:3980, SEES:3050.

b CS:4500 is typically offered only during fall semesters.
Check MyUI for course availability since offerings are subject to change.