DEGREE REQUIREMENTS FOR INTERDISCIPLINARY COMPUTING (as of FALL 2019)

Name _____   Class of _____   CPSC GPA _____ (from Transcript)

Computer Science Core Requirements

Sem	Grade	Course	
		CPSC 115L	Intro to Computing
		CPSC 215L	Data Structures and Algorithms
		CPSC 203	Math Found. of Computing

Coordinate Courses - need 6 to 7 courses in the coordinate discipline to be chosen in consultation with the coordinate advisor

Sem	Grade	Course	Sem	Grade	Course

Cognate Requirements

For students coordinating with a discipline in the natural and social sciences:

Sem	Grade	Course	
		MATH 131	Calculus I

and one additional numeric or symbolic reasoning course from the following list: (if MATH, must be 107 or higher)

Sem	Grade	Course	
		POLS 242	Political Science Research Methods
		PSYC 221L	Research Design and Analysis
		SOCL 201L	Research Methods in the Soc. Sciences
		MATH	

For students coordinating with a discipline in the arts and humanities:

		MATH 127	Functions, Graphs & Modeling OR Eligibility to enroll in MATH 131 (additional mathematics courses are to be specified in a study plan)

Computer Science Electives - need 3 courses appropriate to the coordinate discipline, to be chosen in consultation with the computer science advisor

Sem	Grade	Course		Sem	Grade	Course	
		CPSC 110	Computers, Information, and Society			CPSC 340	Principles of Software Engineering
		CPSC 110	Visual Computing			CPSC 352	Artificial Intelligence
		CPSC 110	Computing with Mobile Phones			CPSC 372	Database Fundamentals
		CPSC 219	Theory of Computation			CPSC 375	High-Performance Computing
		CPSC 225	Topics in Application Programming			CPSC 360	Deep Learning
		CPSC 275L	Introduction to Computer Systems			CPSC 385	Computer Security
		CPSC 304	Computer Graphics			CPSC 395	Sensitive Information in a Connected World
		CPSC 310	Software Design			CPSC 415	Special Topics in Computing
		CPSC 315	Systems Software				
		CPSC 316	Foundations of Programming Languages				
		CPSC 320	Analysis of Algorithms				
		CPSC 333	Computer Networks				

Senior Exercise (Seminar + Project)

Sem	Grade	Course	Sem	Grade	Course
		CPSC 403			CPSC 498
		CPSC 404			CPSC 499

Students must register for all four seperately. They also receive seperate grades.

Interdisciplinary Computing

Recommended Course Load

	FALL	SPRING
1st year	Freshman Seminar CPSC 115L Intro to Computing _____ _____ _____ _____	CPSC 215L Data Structures and Algorithms CPSC 203 Math Found. of Computing _____ _____ _____ _____
2nd year	Cognate Course 1 Coordinate Course 1 _____ _____ _____ _____	Cognate Course 2 Coordinate Course 2 _____ _____ _____ _____
3rd year	Coordinate Course 3 Coordinate Course 4 _____ _____ _____ _____	CS Elective 1 Coordinate Course 5 _____ _____ _____ _____
4th year	CPSC 403 Senior Seminar CPSC 498 Senior Project CS Elective 2 Coordinate Course 6 _____ _____	CPSC 404 Senior Seminar CPSC 499 Senior Project CS Elective 3 Coordinate Course 7 _____ _____

Interdisciplinary Computing with Economics

Computing technology and concepts have become increasingly important in all areas of economics and finance, from analysis to security to modeling and visualization. Study in this area might also focus on some of the economic impacts of computing in areas such as online media or intellectual property law. A course of study in this area would draw on computer science electives, mathematics, and coordinate Courses.

The degree requirements for Interdisciplinary Computing with Economics is laid out in the chart below.

Computer Science Core Requirements

Sem	Grade	Course	
		CPSC 115L	Intro to Computing
		CPSC 215L	Data Structures and Algorithms
		CPSC 203	Math Found. of Computing

Economics Coordinate Courses

Sem	Grade	Course		Sem	Grade	Course	
		ECON 101	Basic Economic Principles			ECON 2xx	200-level Economics Course
		ECON 301	Microeconomic Theory			ECON 3xx	300-level Economics Course
		ECON 302	Macroeconomic Theory			ECON 431	Economics Senior Seminar
		ECON 318	Basic Econometrics				

Cognate Requirements

Sem	Grade	Course			Sem	Grade	Course	
		MATH 131	Calculus I					
		MATH 207	Statistical Data Analysis	OR			ECON 218	Intro to Stats for Econ

Computer Science Electives (need 3 courses appropriate to the coordinate discipline, to be chosen in consultation with the computer science adviso

The recommended electives for an Economics coordinate are flagged with an *.

Sem	Grade	Course		Sem	Grade	Course	
		CPSC 110	Computers, Information, and Society			CPSC 340*	Principles of Software Engineering
		CPSC 110	Visual Computing			CPSC 352	Artificial Intelligence
		CPSC 110	Computing with Mobile Phones			CPSC 372	Database Fundamentals
		CPSC 219	Theory of Computation			CPSC 375	High-Performance Computing
		CPSC 225	Topics in Application Programming			CPSC 360	Deep Learning
		CPSC 275L	Introduction to Computer Systems			CPSC 385*	Computer Security
		CPSC 304	Computer Graphics			CPSC 395	Sensitive Information in a Connected World
		CPSC 310*	Software Design			CPSC 415	Special Topics in Computing
		CPSC 315	Systems Software				
		CPSC 316	Foundations of Programming Languages				
		CPSC 320*	Analysis of Algorithms				
		CPSC 333*	Computer Networks				

Senior Exercise (Seminar + Project)

			Sem	Grade	Course	Sem	Grade	Course
					CPSC 403			CPSC 498
					CPSC 404			CPSC 499

Students must register for all four seperately. They also receive seperate grades.

Note that students must earn a minimum grade of C- in CPSC 115L, CPSC 203, and CPSC 215L, a minimum grade of B- in ECON 101, and a minimum grade of C+ in MATH 207/ECON 218, ECON 301, and ECON 302.

Interdisciplinary Computing with Economics

Recommended Course Load

	FALL	SPRING
1st year	First Year Seminar CPSC 115L Intro to Computing ECON 101 Basic Economic Principles _____ _____	CPSC 215L Data Structures and Algorithms MATH 207 Statistical Data Analysis **OR** ECON 218 Intro to Stats for Econ ECON 2xx 200-level Economics course _____ _____
2nd year	CS Elective 1 ECON 301 Microeconomic Theory MATH 131 Calculus I _____ _____	CPSC 203 Math Found. of Computing ECON 302 Macroeconomic Theory _____ _____ _____ _____
3rd year	CS Elective 2 ECON 318 Basic Econometrics _____ _____ _____ _____	CS Elective 3 ECON 3xx 300-level Economics course _____ _____ _____ _____
4th year	CPSC 403 Senior Seminar CPSC 498 Senior Project ECON 331 Economics Senior Seminar _____ _____ _____ _____	CPSC 404 Senior Seminar CPSC 499 Senior Project _____ _____ _____ _____ _____ _____