

Interdisciplinary Computing with Economics

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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			Economics Coordinate Courses					
Sem	Grade	Course	Sem	Grade	Course	Sem	Grade	Course
_____	_____	CPSC 115L Intro to Computing	_____	_____	ECON 101 Basic Economic Principle:	_____	_____	ECON 2xx 200-level Economics Course
_____	_____	CPSC 215L Data Structures and Algorithms	_____	_____	ECON 301 Microeconomic Theory	_____	_____	ECON 3xx 300-level Economics Course
_____	_____	CPSC 203 Math Found. of Computing	_____	_____	ECON 302 Macroeconomic Theory	_____	_____	ECON 331 Economics Senior Seminar
_____	_____		_____	_____	ECON 318 Basic Econometrics			
Cognate Requirements								
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 advisor)								
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 385* Computer Security			
_____	_____	CPSC 275L Introduction to Computer Systems	_____	_____	CPSC 415 Special Topics in Computing			
_____	_____	CPSC 304 Computer Graphics	_____	_____			
_____	_____	CPSC 310* Software Design	_____	_____			
_____	_____	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 separately. They also receive separate 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.