Name	Class of		CPSC GPA	(from Transcript)
Computer Science Cor	e Requirements	Coordinate Courses - nee	ed 6 to 7 cours	rses in the coordinate discipline to be chosen in consultation with the coordinate advisor.
Sem Grade Cours		Sem Grade Course		Sem Grade Course
CPSC	·			
CPSC	215L Data Structures and Algorithms			
CPSC	203 Math Found. of Computing			
Cognate Requirements				
	ing with a discipline in the natural and soci	al sciences:		
Sem Grade Cours				
	1 131 Calculus I	o following list. (if NAAT	II may at ha 10	17 or highest
	neric or symbolic reasoning course from th	_	H, must be 107	or nigher)
POLS		15		
PSYC	,			
SOCL		ences		
MATI	1			
For students coordinat	ing with a dissipline in the arts and human	itiaa		
	ing with a discipline in the arts and human		-II : NAATU 43	
	H 127 Functions, Graphs & Modeling			31 (additional mathematics courses are to be specified in a study plan)
Sem Grade Cours		coordinate discipline, to be Sem		onsultation with the computer science advisor  Course
CPSC				PSC 340 Principles of Software Engineering
CPSC			 CF	PSC 352 Artificial Intelligence
CPSC	, ,	g		PSC 372 Database Fundamentals
CPSC			 CF	PSC 375 High-Performance Computing
CPSC			 CF	PSC 360 Deep Learning
CPSC	·		 CF	PSC 385 Computer Security
CPSC			CF	PSC 395 Sensitive Information in a Connected World
CPSC	316 Foundations of Programming Lang	guages	 CF	PSC 415 Special Topics in Computing
CPSC				
CPSC	, -			
	·			
Senior Exercise (Semir	ar + Project)	Sem	Grade Co	Course Sem Grade Course
Jenior Exercise (Jenin	a ojecej	Jeili		PSC 403 CPSC 498
				PSC 404 CPSC 499
		Studen	ts must registe	er for all four seperately. They also receive seperate grades.

## **Interdisciplinary Computing**

Recommended Course Load

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

er Science Core Re	quirements	Econom	ics Coord	dinate Cours	ses						
Grade Course		Sem	Grade	Course				Sem	Grade	Course	
CPSC 115	Introduction to Computer Science			ECON 101	Basic Ec	conomic Princi	ples			ECON 2xx	200-level Economics Course
CPSC 215	Data Structures and Algorithms			ECON 301	Microed	conomic Theor	ry			ECON 3xx	300-level Economics Course
CPSC 203	Math Found. of Computing			ECON 302	Macroe	conomic Theo	ry			ECON 431	Economics Senior Seminar
				ECON 318	Basic Ec	conometrics					
Requirements		11									
Grade Course											
MATH 13	1 Calculus I										
MATH 20	7 Statistical Data Analysis OR					ECON 218	Intro to Stats for Ed	con			
er Science Elective	(need 3 courses appropriate to the coor	dinate dis	cipline, t	o be chosen	in consu	Itation with th	ne computer science	advisor)			
mmended elective	s for an Economics coordinate are flagged	with an *									
Grade Course				Sem	Grade	Course					
CPSC 110	Essentials of Computing with Pythol	า				CPSC 340*	Principles of Softwa	are Engine	eering		
CPSC 219	Theory of Computation					CPSC 352	Artificial Intelligenc	e			
CPSC 225	Topics in Application Programming					CPSC 372	Database Fundame	ntals			
CPSC 275	Introduction to Computer Systems					CPSC 375	High-Performance	Computin	g		
CPSC 304	Computer Graphics					CPSC 360	Deep Learning				
CPSC 310	* Software Design					CPSC 385*	Computer Security				
CPSC 315	Systems Software					CPSC 395	Sensitive Information	on in a Co	nnected \	World	
CPSC 316	Foundations of Programming Langu	ages				CPSC 415	Special Topics in Co	mputing			
CPSC 320	* Analysis of Algorithms					-					
CPSC 333	* Computer Networks										
<u> </u>											
kercise (Seminar +	Project)			Sem	Grade	Course		Sem	Grade	Course	
					-	_				=	
				Students m	oust regis	-	caparataly They also	receive	enerate e	_	
	Grade Course CPSC 1151 CPSC 203  Requirements Grade Course MATH 13: MATH 20  Pr Science Electives mmended electives CPSC 110 CPSC 219 CPSC 225 CPSC 2751 CPSC 304 CPSC 316 CPSC 316 CPSC 333	Grade Course  CPSC 115L Introduction to Computer Science  CPSC 215L Data Structures and Algorithms  CPSC 203 Math Found. of Computing  Requirements  Grade Course  MATH 131 Calculus I  MATH 207 Statistical Data Analysis OR  Per Science Electives (need 3 courses appropriate to the coordinate are flagged)  Grade Course  CPSC 110 Essentials of Computing with Python  CPSC 219 Theory of Computation  CPSC 225 Topics in Application Programming  CPSC 275L Introduction to Computer Systems  CPSC 304 Computer Graphics  CPSC 310* Software Design  CPSC 315 Systems Software  CPSC 316 Foundations of Programming Language  CPSC 320* Analysis of Algorithms	Grade Course CPSC 215L Introduction to Computer Science CPSC 215L Data Structures and Algorithms CPSC 203 Math Found. of Computing  Requirements Grade Course MATH 131 Calculus I MATH 207 Statistical Data Analysis OR  Pr Science Electives (need 3 courses appropriate to the coordinate dismended electives for an Economics coordinate are flagged with an *  Grade Course CPSC 110 Essentials of Computing with Python CPSC 219 Theory of Computation CPSC 225 Topics in Application Programming CPSC 275L Introduction to Computer Systems 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	Grade Course CPSC 215L Introduction to Computer Science CPSC 215L Data Structures and Algorithms CPSC 203 Math Found. of Computing  Requirements Grade Course MATH 131 Calculus I MATH 207 Statistical Data Analysis OR  Rescricted Electives (need 3 courses appropriate to the coordinate discipline, to the mended electives for an Economics coordinate are flagged with an *.  Grade Course CPSC 110 Essentials of Computing with Python CPSC 219 Theory of Computation CPSC 225 Topics in Application Programming 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	Grade Course CPSC 115L Introduction to Computer Science CPSC 215L Data Structures and Algorithms CPSC 203 Math Found. of Computing  ECON 301 CPSC 203 Math Found. of Computing  ECON 318  Requirements Grade Course MATH 131 Calculus I MATH 207 Statistical Data Analysis OR  Frescience Electives (need 3 courses appropriate to the coordinate discipline, to be chosen mended electives for an Economics coordinate are flagged with an *.  Grade Course CPSC 110 Essentials of Computing with Python CPSC 219 Theory of Computation CPSC 225 Topics in Application Programming CPSC 275L Introduction to Computer Systems CPSC 310 * Software Design CPSC 315 Systems Software CPSC 320 * Analysis of Algorithms CPSC 320 * Analysis of Algorithms CPSC 333 * Computer Networks  Electives (Seminar + Project)  Sem	Grade Course CPSC 215L Introduction to Computer Science CPSC 215L Data Structures and Algorithms CPSC 203 Math Found. of Computing CPSC 203 Math Found. of Computing CPSC 203 Math Found. of Computing ECON 302 Macroe ECON 318 Basic E	Grade Course CPSC 115L Introduction to Computer Science CPSC 215L Data Structures and Algorithms CPSC 203 Math Found. of Computing ECON 301 Microeconomic Princi ECON 318 Basic Economic Princi ECON 318 Basic Economic Princi ECON 318 Basic Economic Theorem ECON 318 Basic Economic Theorem ECON 318 Basic Econometrics ECON 318 Basic Econometrics MATH 131 Calculus I MATH 207 Statistical Data Analysis OR ECON 218 ECON 21	Sem Grade   Course   CPSC 115L   Introduction to Computer Science   ECON 101   Basic Economic Principles   ECON 301   Microeconomic Theory   ECON 302   Macroeconomic Theory   ECON 303   Macroeconomic Theory   ECON 304   Macroeconomic Theory   ECON 318   Basic Econometrics	Grade Course  CPSC 215L Data Structures and Algorithms  CPSC 2203 Math Found. of Computing  ECON 302 Macroeconomic Theory  ECON 318 Basic Economic Principles  ECON 318 Basic Economic Theory  ECON 318 Basic Econometrics  Requirements  Grade Course  MATH 131 Calculus I  MATH 207 Statistical Data Analysis OR  ECON 218 Intro to Stats for Econ  Trescince Electives (need 3 courses appropriate to the coordinate discipline, to be chosen in consultation with the computer science advisor)  Theory of Computation  CPSC 219 Theory of Computation  CPSC 219 Theory of Computation  CPSC 225 Topics in Application Programming  CPSC 275L Introduction to Computer Systems  CPSC 310 Software Design  CPSC 316 Software Design  CPSC 316 Software Design  CPSC 320* Analysis of Algorithms  CPSC 333* Computer Networks  ECON 318 Basic Economic Principles  ECON 310 Microeconomic Theory  ECON 310 Basic Economic Theory  ECON 311 Basic Economic Principles  ECON 311 Microeconomic Theory  ECON 312 Basic Economic Theory  ECON 313 Basic Economic Theory  ECON 318 Basic Economic	Sem Grade   Course   CPSC 115L   Introduction to Computer Science   ECON 101   Basic Economic Principles   ECON 302   Macroeconomic Theory   ECON 302   Macroeconomic Theory   ECON 303   Macroeconomic Theory   ECON 304   Macroeconomic Theory   ECON 305   Macroeconomic Theory   ECON 306   Macroeconomic Theory   ECON 307   Macroeconomic Theory   ECON 308   Basic Econometrics   ECON 308   Macroeconomic Theory   ECON 309   Macroeconomic Theory   ECON 309   Macroeconomic Theory   ECON 318   Basic Econometrics   ECON 301   Macroeconomic Theory   ECON 318   Basic Econometrics   ECON 301   Macroeconomic Theory   ECON 302   ECON 302   ECON 303   ECON 303   ECON 302   ECON 303   EC	Sem   Grade   Course   CPSC 115L   Introduction to Computer Science   Sem   Grade   Course   ECON 101   Basic Economic Principles   ECON 20x   ECON 30x

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 Se	minar	CPSC 215L	Data Structures and Algorithms
	CPSC 115L	Introduction to Computer Science	MATH 207	Statistical Data Analysis <b>OR</b>
	ECON 101	Basic Economic Principles	ECON 218	Intro to Stats for Econ
			ECON 2xx	200-level Economics course
2nd year	CS Elective 1		CPSC 203	Math Found. of Computing
	ECON 301	Microeconomic Theory	ECON 302	Macroeconomic Theory
	MATH 131	Calculus I		
3rd year	CS Elective 2	2	CS Elective	3
3rd year	CS Elective 2 ECON 318	Basic Econometrics	CS Elective ECON 3xx	3 300-level Economics course
3rd year				
3rd year				
3rd year				
3rd year 4th year				
	ECON 318	Basic Econometrics	ECON 3xx	300-level Economics course
	ECON 318  CPSC 403	Basic Econometrics  Senior Seminar	ECON 3xx  CPSC 404	300-level Economics course  Senior Seminar
	CPSC 403 CPSC 498	Senior Seminar Senior Project	ECON 3xx  CPSC 404	300-level Economics course  Senior Seminar
·	CPSC 403 CPSC 498	Senior Seminar Senior Project	ECON 3xx  CPSC 404	300-level Economics course  Senior Seminar