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Computer Science and Politics, Philosophy, and Economics, BS (Boston)

Politics, philosophy, and economics bring together three important frameworks from the humanistic social sciences for understanding the world around us. Computer science involves the application of theoretical concepts in the context of software development to the solution of problems that arise in almost every human endeavor, drawing on concepts and methods from mathematics, logic, science, and engineering. This interdisciplinary degree thus provides multiple perspectives and a set of skills that are indispensable in our increasingly interconnected world and essential in addressing the kinds of complex global problems future leaders need to tackle.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

Universitywide Requirements

All undergraduate students are required to complete the Universitywide Requirements (https://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements/).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (https://catalog.northeastern.edu/undergraduate/university-academics/nupath/).

Computer Science Courses		
Code	Title	Hours
Computer Science Overview		
Must be taken in alignment with your hom	ne college:	
CS 1200	First Year Seminar	1
or PHIL 1000	Philosophy at Northeastern	
CS 1210	Professional Development for Khoury Co-op	1
or EESH 2000	Professional Development for Co-op	
Computer Science Fundamental Courses		
	o attempt to place out of CS 2000 and CS 2001. Students who place out of CS 2000 I-5 semester hours of CS, CY, or DS coursework at the 3000 level or higher not	
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2000 and CS 2001	Introduction to Program Design and Implementation and Lab for CS 2000	5
CS 2100 and CS 2101	Program Design and Implementation 1 and Lab for CS 2100	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3100 and CS 3101	Program Design and Implementation 2 and Lab for CS 3100	5
CS 3200	Introduction to Databases	4
CS 4530	Fundamentals of Software Engineering	4
or CS 4535	Professional Practicum Capstone	
Khoury Approved Electives		
With advisor approval, directed study, rese upper-division electives.	earch, project study, and appropriate graduate-level courses may also be be taken for	
Complete 4 semester hours from within the	ne following options:	4
CS 2500 or higher, except CS 5010		
CY 2000 or higher, except CY 4930		
DS 2500 or higher, except DS 4900		
	Divided Anothetics, Technological Anternation Descende Decet	

MKTG 4606

Digital, Analytics, Technology, and Automation Research Practicum

Politics, Philosophy, and Economics Courses

Complete at least four courses in each of the following subject areas: ECON, PHIL, and POLS.

Code	Title	Hours
Foundation Course		
PHIL 1160	Introduction to Economic Justice	4
Core Courses		
Philosophy		
PHIL 2303	Social and Political Philosophy	4
or PHIL 3822	Philosophy of Race and Racism	
PHIL 3435	Moral Philosophy	4
or PHIL 2325	Ancient Philosophy and Political Thought	
Political Science		
POLS 1150	American Government	4
or POLS 1155	Comparative Politics	
POLS 1160	International Relations	4
POLS 3405	International Political Economy	4
Economics		
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
ECON 2315	Macroeconomic Theory	4
or ECON 2316	Microeconomic Theory	
Methods Course		
PHIL 3000	Interdisciplinary Methods for Politics, Philosophy, and Economics	4
Capstone		
Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
PHIL 4550	Philosophy of Economics	
PHIL 5001	Global Justice	
PHIL 5002	Ethics and Public Policy	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	
PPE Elective		
Complete one course from the following ra	nges:	4
ECON 1200 to ECON 1999	-	
ECON 3000 to ECON 4689		
ECON 4900 to ECON 4999		
ECON 5200 to ECON 5999		
PHIL 2000 to PHIL 5999		
POLS 2000 to POLS 5999		
Integrative Course Requirements		
Code	Title	Hours
CS 2484	Principles of Human-Computer Interaction	4
PHIL 1115	Introduction to Logic	4
POLS 2390	Science, Technology, and Public Policy	4
Supporting Courses		
Code	Title	Hours
Statistics and Mathematics		
ECON 2350	Statistics for Economists	4
or POLS 2400	Quantitative Techniques	
or MATH 2280	Statistics and Software	

				Computer Science and F	Politics, Philos	sophy, and Economics, BS	(Boston)
MATH 1231		Calculus for E	Business and	Economics			
or MATH 1341		Calculus 1 for	Calculus 1 for Science and Engineering				
English Requireme	nts						
Code		Title					Hou
College Writing		inte					nou
ENGW 1111		First-Year Wri	ting				
or ENGW 1102			-	ilingual Writers			
Advanced Writing in th	o Disciplin		ting for man				
Complete one of the fo		c5					
ENGW 3302	nowing.	Advanced Wr	itina in the T	echnical Professions			
ENGW 3309		Advanced Wr	-				
ENGW 3315			-	d Writing in the Disciplin	ies		
	1		,				
R equired General E _{Code}	lectives	Title					Hou
Complete 20 semester	bours of a						нои 2
Joinpiete 20 semester	nours or g	eneral electives.					2
Khoury College GP/	-						
Ainimum cumulative 2	.000 GPA r	equired in all CS, CY, DS, a	ind IS course	es			
 Writing-Intensive ir Understanding Soc Employing Ethical Writing in the First Advanced Writing i Demonstrating The 	cieties and Reasoning Year n the Discip	plines					
-	-	Through Experience is sa	ntisfied throu	gh co-op.			
Program Requirem	ent						
129 total semester hou		l					
Plan of Study							
Sample Plans of St		MMER SECOND HALF/FAL	L				
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200 or PHIL 1000		1 CS 2100 and CS 2101		5 CS 3000		4 MATH 1231 or 1341	
CS 1800 and CS 1802		5 ECON 1115 or 1116		4 General Elective		4 General Elective	
CS 2000 and CS 2001		5 PHIL 1115		4			
ENGW 1111		4 POLS 1160		4			
PHIL 1160		4					
		19		17		8	
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours

Fall Hours Spring Hours Summer 1 Hours Summer 2 Hours CS 3100 5 CS 1210 or EESH 2000 1 ECON 2315 or 2316 4 Co-op and CS 3101 PHIL 3435 or 2325 4 CS 3200 4 General Elective 4

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POLS 1150 or 1155		4 ECON 2350, POLS 2400, or MATH 2280		4				
POLS 3405		4 PHIL 2303 or 3822		4				
		Elective		4				
		17		17		8		0
Year 3								
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
Со-ор		0 CS 2484		4 ENGW 3302, 3309, or 3315		4 Со-ор		0
		PHIL 3000		4				
		POLS 2390		4				
		General Elective		4				
		0		16		4		0
Year 4								
Fall	Hours	Spring	Hours					
Со-ор		0 CS 4530 or 4535		4				
		Khoury Elective		4				
		PPE Capstone		4				
		PPE Elective		4				
		0		16				

Total Hours: 130

FOUR YEARS, TWO CO-OPS IN SPRING/SUMMER FIRST HALF

Year 1								
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
CS 1200 or PHIL 1000		1 CS 2100 and CS 2101		5 CS 3100 and CS 3101		5 MATH 1231 or 1341		4
CS 1800 and CS 1802		5 ECON 1115 or 1116		4 General Elective		4 General Elective		2
CS 2000 and CS 2001		5 PHIL 1115		4				
ENGW 1111		4 POLS 1160		4				
PHIL 1160		4						
		19		17		9		8
Year 2								
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
CS 1210 or EESH 2000		1 Co-op		0 Со-ор		0 ECON 2315 or 2316		4
CS 3000		4				General Elective		4
PHIL 3435 or 2325		4						
POLS 1150 or 1155		4						
POLS 3405		4						
		17		0		0		8
Year 3								
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
CS 3200		4 Co-op		0 Со-ор		0 ENGW 3302, 3309, or 3315		4
ECON 2350, POLS 2400, or MATH 2280		4						
PHIL 2303 or 3822		4						
General Elective		4						
		16		0		0		4
Year 4								
Year 4 Fall	Hours	Spring	Hours					
	Hours	Spring 4 CS 2484	Hours	4				

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PHIL 3000	4 PPE Capstone	4	
POLS 2390	4 PPE Elective	4	
	16	16	

Total Hours: 130