

COMPUTER SCIENCE AND SOCIETY BACHELOR OF SCIENCE

Leading to a Bachelor of Science Degree in Computer Science and Society

Students in Computer Science + Society learn how to solve the world's problems using the skills of Computer Science and the frameworks of the Social Sciences and Humanities. Students gain a solid foundation in Computer Science as well as the interdisciplinary knowledge needed to understand and shape the role of technology in society. The major courses offer hands-on experience applying critical thinking, research, and data analysis skills to real-world problems drawn from a regional and global context. Electives allow students to tailor their studies to their interests and career plans. The program of study leads to a capstone project involving independent research. Students also apply these skills in the workplace through two required co-op work semesters.

Student Outcomes

Graduates of the major in Computer Science + Society should be able to:

1. Design, implement, and evaluate solutions to problems grounded in real-world scenarios by applying conceptual frameworks from the Humanities and Social Sciences and principles of Computer Science.
2. Analyze the interrelationship between scientific inquiry, technological innovation, cultural production, and human behavior.
3. Communicate effectively in a variety of professional contexts through use of critical argument, analyses, and creative expression in written, oral, visual, and/or digital output.
4. Make informed professional judgments based on ethical principles, social awareness, and cultural understanding.
5. Function effectively in collaborative environments.

Three Year Program

Total credits for degree: 120 credits

Course	Title	Credits
Freshman Year		
Fall Semester		
CSAS1000	INTRODUCTION TO COMPUTER SCIENCE + SOCIETY	4
COMP1000	COMPUTER SCIENCE I	4
COMP1100	INTRODUCTION TO NETWORKS	4
MATH1500	PRECALCULUS ()	4
English Sequence		4
Credits		20
Spring Semester		
COMP1050	COMPUTER SCIENCE II	4
MATH1030	STATISTICS & APPLICATIONS	4
MATH2300	DISCRETE MATHEMATICS	4
SCIENCE Elective w/Lab: BIOL, CHEM or PHYS		4
English Sequence		4
Credits		20

Course	Title	Credits
Summer Semester		
COOP3000	PRE CO-OP WORK TERM (OPTIONAL)	1
Credits		1
Sophomore Year		
Fall Semester		
COMP1200	COMPUTER ORGANIZATION	4
CSAS2000	COMPUTER SCIENCE + SOCIETY STUDIO (This course is required twice: Fall & Spring Sophomore year)	4
COMP2000	DATA STRUCTURES	4
HSSI4000	SCIENCE, TECHNOLOGY & SOCIETY	4
SOCIAL SCIENCE RESEARCH METHODS		4
Credits		20
Spring Semester		
COMP2350	ALGORITHMS	4
CSAS2000	COMPUTER SCIENCE + SOCIETY STUDIO (This course is required twice: Fall & Spring Sophomore year)	4
HIST4191	HISTORY OF TECHNOLOGY	4
POLS4350	SCIENCE & TECHNOLOGY POLICY	4
CS+S ELECTIVE ¹		4
Credits		20
Summer Semester		
COOP3500	COOP EDUCATION 1	
Credits		0
Junior Year		
Fall Semester		
ECON4200	TECHNOLOGY & ECONOMIC DEVELOPMENT	4
ETHICS Elective ²		4
COMP2650	DATABASES	4
COMP Elective ³		4
GENERAL Elective		4
Credits		20
Spring Semester		
COOP4500	COOP EDUCATION 2	
Credits		0
Summer Semester		
CSAS5000	COMPUTER SCIENCE + SOCIETY SENIOR PROJECT	4
CS+S ELECTIVE ¹		4
CS+S ELECTIVE		4
CS+S ELECTIVE		4
COMP Elective		4
Credits		20
Total Credits		121

¹ COMM4300, COMM4310, COMM4325, HIST4200, HUMN4200, HUMN4243, HUMN4263, HUMN4325, COMM4330, LITR4601, POLS4450, SOCL4102, SOCL4212

² PHIL4401, PHIL4525, PHIL4550, PHIL4600

³ Any Computer Science Elective

Math Placement (<https://catalog.wit.edu/academic-policies-procedures/ug/math-placement/>) may alter the course schedule above.

Four Year Program

Total credits for degree: 120 credits

Course	Title	Credits
Freshman Year		
Fall Semester		
CSAS1000	INTRODUCTION TO COMPUTER SCIENCE + SOCIETY	4
COMP1000	COMPUTER SCIENCE I	4
MATH1500	PRECALCULUS	4
English Sequence		4
Credits		16
Spring Semester		
COMP1050	COMPUTER SCIENCE II	4
MATH2300	DISCRETE MATHEMATICS	4
SCIENCE Elective w/Lab: BIOL, CHEM or PHYS		4
English Sequence		4
Credits		16
Sophomore Year		
Fall Semester		
CSAS2000	COMPUTER SCIENCE + SOCIETY STUDIO (This course is required twice: Sophomore Fall & Junior Summer year)	4
COMP1100	INTRODUCTION TO NETWORKS	4
HSSI4000	SCIENCE, TECHNOLOGY & SOCIETY	4
MATH1030	STATISTICS & APPLICATIONS	4
Credits		16
Spring Semester		
COMP1200	COMPUTER ORGANIZATION	4
HIST4191	HISTORY OF TECHNOLOGY	4
CS+S ELECTIVE ¹		4
CS+S ELECTIVE ¹		4
Credits		16
Summer Semester		
COOP3000	PRE CO-OP WORK TERM (OPTIONAL)	1
Credits		1
Junior Year		
Fall Semester		
COMP2000	DATA STRUCTURES	4
COMP2650	DATABASES	4
SOCIAL SCIENCE RESEARCH METHODS		4
GENERAL Elective		4
Credits		16
Spring Semester		
COOP3500	COOP EDUCATION 1	
Credits		0

Course	Title	Credits
Summer Semester		
CSAS2000	COMPUTER SCIENCE + SOCIETY STUDIO (This course is required twice: Sophomore Fall and Junior Summer)	4
POLS4350	SCIENCE & TECHNOLOGY POLICY	4
COMP2350	ALGORITHMS	4
CS+S ELECTIVE ¹		4
Credits		16
Senior Year		
Fall Semester		
COOP4500	COOP EDUCATION 2	
Credits		0
Spring Semester		
ECON4200	TECHNOLOGY & ECONOMIC DEVELOPMENT	4
COMP Elective ³		4
ETHICS Elective ²		4
Credits		12
Summer Semester		
CSAS5000	COMPUTER SCIENCE + SOCIETY SENIOR PROJECT	4
COMP Elective ³		4
CS+S ELECTIVE ¹		4
Credits		12
Total Credits		121

¹ COMM4300, COMM4310, COMM4325, HIST4200, HUMN4200, HUMN4243,

HUMN4263, HUMN4325, COMM4330, LITR4601, POLS4450, SOCL4102, SOCL4212

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