

# Computer Science (BCOS) Tracking Sheet Catalog Year 2020-2021

**Note:** This is an example schedule; many courses are offered in other semesters (see reverse side). If you overload, withdraw, transfer, or fail courses, meet with your advisor to build a viable schedule.

Fall	Spring	Summer
<b>Freshman (0-31 earned hours)</b>		
R-L-C†	R-L-C†	
COMP1000 Computer Science I 3-2-4	COMP1050 Computer Science II 3-2-4	
MATH2300 Discrete Math 4-0-4	COMP1200 Computer Organization 3-2-4	
MATH1775 Integrated Eng Calculus I 3-2-4	MATH1875 Integrated Eng Calculus II 3-2-4	
ENGLISH English Sequence 4-0-4	ENGLISH English Sequence 4-0-4	
<b>Sophomore (32-63 earned hours)</b>		
R-L-C†	R-L-C†	
COMP2000 Data Structures 3-2-4	COMP2350 Algorithms 3-2-4	COOP3000 Pre Co-op Work Term (Optional)
COMP2100 Network Programming 3-2-4	COMP2650 Databases 3-2-4	
MATH2860 Linear Algebra & Matrix Theory 4-0-4	MATH2100 Prob & Stats for Engineers 4-0-4	
HUSS Humanities/Social Science Elective <sup>1</sup> 4-0-4	HUSS Humanities/Social Science Elective <sup>1</sup> 4-0-4	
<b>Junior (64-95 earned hours)</b>		
R-L-C†		R-L-C†
COMP3400 Operating Systems 3-2-4	COOP3500 Co-op Education 1 (Required)	COMP3350 Programming Languages 3-2-4
COMP Computer Science Elective <sup>2</sup> 3-2-4		COMP3450 Parallel Computing 3-2-4
SCIENCE Science Elective <sup>3</sup> 3-2-4		COMP Computer Science Elective <sup>2</sup> 3-2-4
HUSS Humanities/Social Science Elective <sup>1</sup> 4-0-4		SCIENCE Science Elective <sup>3</sup> 3-2-4
<b>Senior (96+ earned hours)</b>		
	R-L-C†	R-L-C†
COOP4500 Co-op Education 2 (Required)	COMP4960 Software Engineering 3-2-4	COMP5500 Senior Project 1-6-4
	COMP Computer Science Elective <sup>2</sup> 3-2-4	COMP Computer Science Elective <sup>2</sup> 3-2-4
	HUSS Humanities/Social Science Elective <sup>1</sup> 4-0-4	HUSS Humanities/Social Science Elective <sup>1</sup> 4-0-4

†R-L-C means Recitation, Lab, and Credit hours

Updated: July 2020

Notes	Registration and Degree Troubleshooting <sup>4</sup>	Important Contacts (other than your advisor)
<sup>1</sup> At least one elective must be from the social sciences (COMM, ECON, POLS, PSYC, SOCL); at least one elective must be from the humanities (HIST, HUMN, LITR, PHIL); one selection must be an Ethics course	If you cannot register for a course <b>before or during</b> Drop/Add period: Freshmen: obtain a registration code from your advisor For time conflicts or overloads, submit a <b>registration override form</b> For COMP courses, submit an <b>override authorization form</b>	COMP Dave Albanese Dept Coordinator x4272 COMP Charlie Wiseman Dept Chair x4704 NON-COMP Lisa Manness Beatty 304 x4370 Transfer James Smith Williston 101 x4395
<sup>2</sup> See reverse side for elective list.	To drop or add a course <b>after</b> Drop/Add period has ended: Submit a <b>course withdrawal form</b> or a <b>late registration form</b>	COOP Sara Dell Wentworth 101 x4132 HUSS Ron Bernier Beatty 407 x4353
<sup>3</sup> Choose from BIOL1100, BIOL1700, BIOL2200, BIOL3000, CHEM1100, CHEM1600, PHYS1250, PHYS1750, PHYS2000.	For courses not used in your degree, submit a <b>course substitution form</b>	MATH Mark Mixer Ira Allen 319 x4394 MORE See: <a href="https://wit.edu/wentworth-directory">https://wit.edu/wentworth-directory</a>
<sup>4</sup> See your degree audit and advisor first; the dept coordinator has forms	For other degree issues, visit the student service center	

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Please consult the latest version of this document before scheduling electives, as offerings (and semester availability) may change without notice.

## BCOS Requirements

	Fall	Spring	Summer
COMP1000 Computer Science I	•	•	•
MATH2300 Discrete Math	•	•	•
MATH1775 Integrated Eng Calc I	•	•	
COMP1050 Computer Science II	•	•	•
MATH1875 Integrated Eng Calc II	•	•	
COMP1200 Computer Organization	•	•	
COMP2000 Data Structures	•	•	•
COMP2100 Network Programming	•	•	
MATH2860 Linear Algebra & Matrix Theory	•	•	
COMP2350 Algorithms	•	•	•
COMP2650 Databases	•	•	
MATH2100 Prob & Stats for Engineers		•	•
COMP3400 Operating Systems	•		
COMP3350 Programming Languages			•
COMP3450 Parallel Computing			•
COMP4960 Software Engineering	•	•	
COMP5500 Senior Project			•

## CS Electives\*

COMP1150	Routing and Switching	COMP3660	Mobile App Development
COMP2150	Network Administration	COMP3750	Intro to Biostatistics
COMP2160	Wireless Networks	COMP4050	Machine Learning
COMP2500	Security Principles	COMP4150	Advanced System Admin
COMP3100	System Administration	COMP4500	Offensive Security
COMP3125	Data Science Fundamentals	COMP4550	Incident Response
COMP3200	Assembly Language	COMP4580	Network Forensics
COMP3500	Network Security	COMP4650	Web Development
COMP3550	Computer Security	COMP4700	Artificial Intelligence
COMP3575	Scripting for Cybersecurity	COMP4750	Embedded AI
COMP3580	Digital Forensics	COMP4775	Advanced Parallel Computing
COMP3590	Applied Cryptography	COMP4950	Project Management

### Elective Notes

\* Check the course catalog for prerequisite and scheduling information for individual electives  
 This list is not exhaustive; see your advisor if you need assistance identifying electives  
 Independent/external studies require department approval  
 Special topics courses require department approval to count as electives

### Prerequisite Flowchart

