

# Computer Science (BCOS) Tracking Sheet Catalog Year 2019-2020

**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 4-0-4                   | MATH1875 Integrated Eng Calculus II 4-0-4                  |  |
| 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 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 |  |
| <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                          |
| MATHSCI Math/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 |  | MATHSCI Math/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          |
|  | COMP Computer Science Elective <sup>2</sup> 3-2-4          | MATHSCI Math/Science Elective <sup>3</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: May 2019

| 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:<br>Freshmen: obtain a registration code from your advisor<br>For time conflicts or overloads, submit a <b>registration override form</b><br>For COMP courses, submit an <b>override authorization form</b> | COMP Dave Albanese Dept Coordinator x4272<br>COMP Charlie Wiseman Dept Chair x4704<br>NON-COMP Lisa Manness Beatty 304 x4370<br>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:<br>Submit a <b>course withdrawal form</b> or a <b>late registration form</b>  | COOP Sara Dell Wentworth 101 x4132<br>HUSS Ron Bernier Beatty 407 x4353  |
| <sup>3</sup> Any science elective (except for PHYS1000/PHYS1500) or any Applied Math minor course; at least one elective must be a 3-2-4 lab science   | For courses not used in your degree, submit a <b>course substitution form</b>   | MATH Amanda Hattaway Ira Allen 319 x4368   |
| <sup>4</sup> See your degree audit and advisor first; the dept coordinator has forms   | For other degree issues, visit the student service center   | MORE See: <a href="https://wit.edu/wentworth-directory">https://wit.edu/wentworth-directory</a>  |

# Computer Science (BCOS) Tracking Sheet Catalog Year 2019-2020

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                  | •    | •      | •      |
| MATH1750 Engineering Calculus I         | •    | •      |        |
| COMP1050 Computer Science II            | •    | •      |        |
| MATH1850 Engineering Calculus 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       | COMP3590 | Applied Cryptography    |
| COMP2150 | Network Administration      | COMP3660 | Mobile App Development  |
| COMP2160 | Wireless Networks           | COMP3750 | Intro to Biostatistics  |
| COMP2500 | Security Principles         | COMP4050 | Machine Learning        |
| COMP3100 | System Administration       | COMP4150 | Advanced System Admin   |
| COMP3200 | Assembly Language           | COMP4450 | Systems Programming     |
| COMP3500 | Network Security            | COMP4460 | Compilers               |
| COMP3550 | Computer Security           | COMP4580 | Network Forensics       |
| COMP3575 | Scripting for Cybersecurity | COMP4650 | Web Development         |
| COMP3580 | Digital Forensics           | COMP4700 | Artificial Intelligence |

## 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

