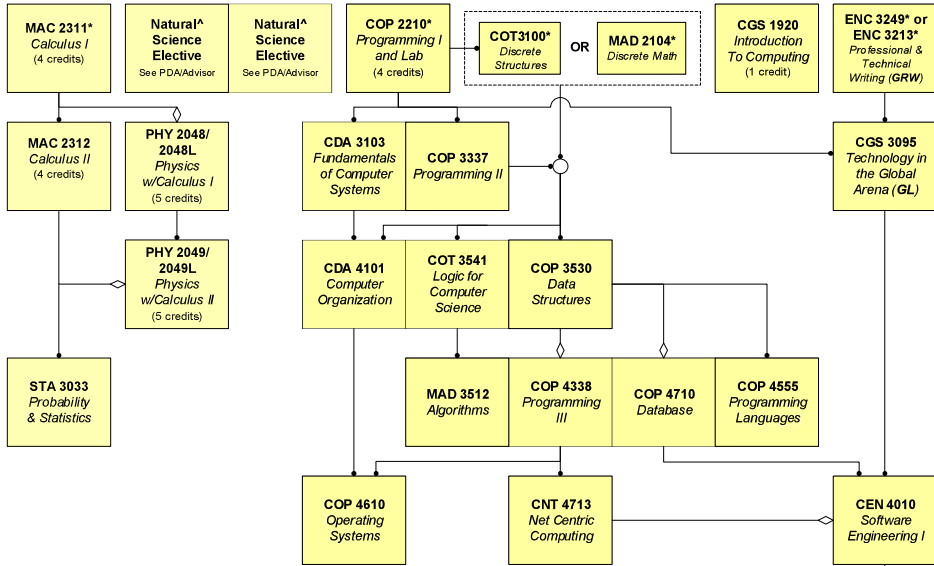


Bachelor of Science in Computer Science
Computer Science Track (effective 8/2012)



CS Electives (choose three)

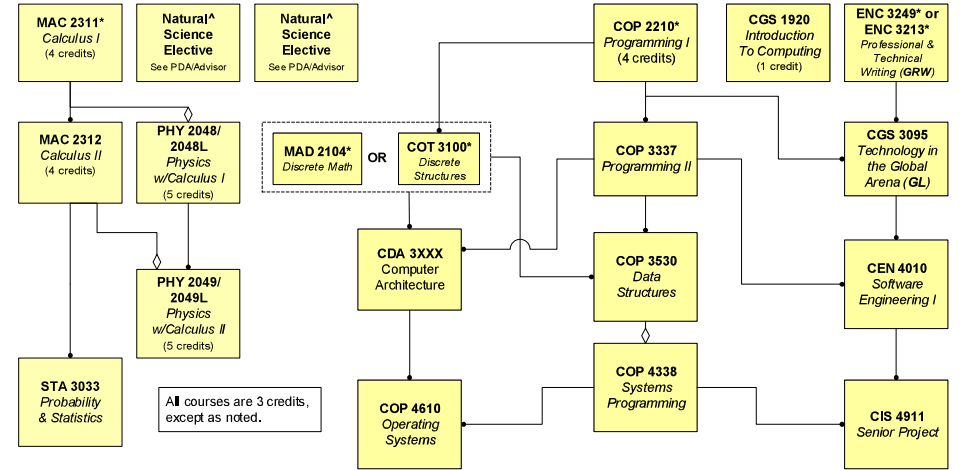
All courses are 3 credits, except as noted.

| | | | | | |
|--|---|---|---|--|---|
| CAP 4104 Human Cmptr Interaction Pre: COP3337 | CAP 4453 Robot Vision Pre: COP3530 & MAC2312 | CAP 4506 Intro to Game Theory Pre: MAC2312 | CAP 4630 Artificial Intelligence Pre: COP3530 | CAP 4641 Natural Lang Processing Pre: COP3530 | CAP 4710 Computer Graphics Pre: COP3337, MAC2312 |
| CAP 4770 Introduction to Data Mining Pre: COP3530 Co: COP 4710 | CDA 4625 Intro to Mobile Robotics Pre: COP3530 & STA3033 | CEN 4021 Software Engineering II Pre: CEN4010 | CEN 4072 Software Testing Pre: COP3530 | CEN 4083 Cloud Computing Pre: CNT4713, CDA4101 | COP 4226 Advanced Windows Programming Pre: COP3530 |
| COP 4520 Intro to Parallel Computing Pre: COP3530, CDA4101 | COP 4534 Algorithm Techniques Pre: COP3530 | COP 4604 Advanced UNIX Programming Pre: COP 4610 | COP 4722 Survey of Database Systems Pre: COP4710 | COT 4521 Intro to Computational Geometry Pre: COP3530 | MAD 3305 Graph Theory Pre: COP2210, MAD2104 |
| MAD 3401 Numerical Analysis Pre: COP2210, MAC2312 | MAD 4203 Combinatorics Pre: MAD2104, MAC2312 | MHF 4302 Math Logic Pre: MAD 3512 | | | |

- A line indicates a prerequisite. The course above must be completed before the course below can be taken.
- A diamond indicates a co-requisite. The course closer to the diamond may be taken at the same time as the co-requisite. The co-requisite is a prerequisite for any course that requires the course closer to the diamond.
- A junction is where multiple prerequisites are joined.

* Prerequisites:
- ENC3249/ENC3213: UCC English requirements
- MAC2311: MAC1147
- COT3100 & MAD2104: MAC1105
- COP2210: MAC1140 or higher level math course
^ Natural Science electives: lab not needed unless required by offering dept.

Bachelor of Science in Computer Science
Computer Science Track (tentative effective date 01/2020)



All courses are 3 credits, except as noted.

CS Electives (9 courses): Must take at least one course from each elective group (most electives are 3 credits). Remaining six elective courses must be taken from these elective groups.

| Foundations | Systems | Applications |
|---|---|---|
| <input type="checkbox"/> CAP 4506-Intro to Game Theory (Prereq: MAC2312) | <input type="checkbox"/> CAP 4453-Robot Vision (Prereq: COP3530, MAC2312) | <input type="checkbox"/> CAP 4104-Human Cmptr Interaction (Prereq: COP3337) |
| <input type="checkbox"/> CAP 4534-Algorithm Techniques (Prereq: COP3530) | <input type="checkbox"/> CDA 4625-Intro to Mobile Robotics (Prereq: COP3530, STA3033) | <input type="checkbox"/> CAP 4630-Artificial Intelligence (Prereq: COP3530) |
| <input type="checkbox"/> COP 4555-Programming Languages (Prereq: COP3530) | <input type="checkbox"/> CEN 4083-Cloud Computing (Prereq: CNT4713, XXXX) | <input type="checkbox"/> CAP 4641-Nat Lang Processing (Prereq: COP3530) |
| <input type="checkbox"/> COT 3541-Logic for CS (Prereq: COP3337 & COT3100) | <input type="checkbox"/> CNT 4713-Net Centric Computing (Prereq: COP4338) | <input type="checkbox"/> CAP 4710-Computer Graphics (Prereq: COP3337, MAC2312) |
| <input type="checkbox"/> COT 4521-Intro to Computational Geometry (Prereq: COP3530) | <input type="checkbox"/> COP 4520-Intro to Parallel Computing (Prereq: COP4338, XXXX) | <input type="checkbox"/> CAP 4770-Intro to Data Mining (Prereq: COP3337, Co-req: COP4710) |
| <input type="checkbox"/> MAD 3305-Graph Theory (Prereq: COP2210, MAD2104) | <input type="checkbox"/> COP 4604-Advanced UNIX Programming (Prereq: COP4610) | <input type="checkbox"/> CEN 4021-Software Engineering II (Prereq: CEN4010) |
| <input type="checkbox"/> MAD 3401-Numerical Analysis (Prereq: COP2210, MAC2312) | <input type="checkbox"/> COP 4710-Intro to Database Systems (Prereq: COP3530) | <input type="checkbox"/> CEN 4072-Software Testing (Prereq: COP3530) |
| <input type="checkbox"/> MAD 3512-Theory of Algorithms (Prereq: COP3530) | <input type="checkbox"/> COP 4722-Survey of Database Systems (Prereq: COP4710) | <input type="checkbox"/> COP 4226-Adv Windows Program (Prereq: COP3530) |
| <input type="checkbox"/> MAD 4203-Combinatorics (Prereq: MAD2104, MAC2312) | | |
| <input type="checkbox"/> MHF 4302-Math Logic (Prereq: MAD3512) | | |

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