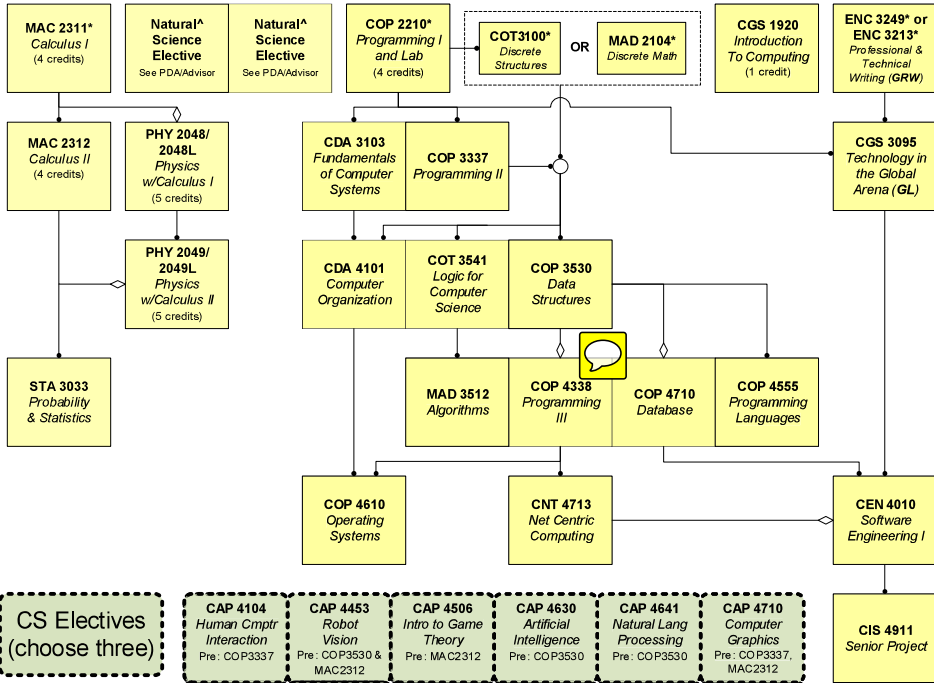


**Bachelor of Science in Computer Science**  
Computer Science Track (effective 8/2012)



**CS Electives (choose three)**

All courses are 3 credits, except as noted.

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

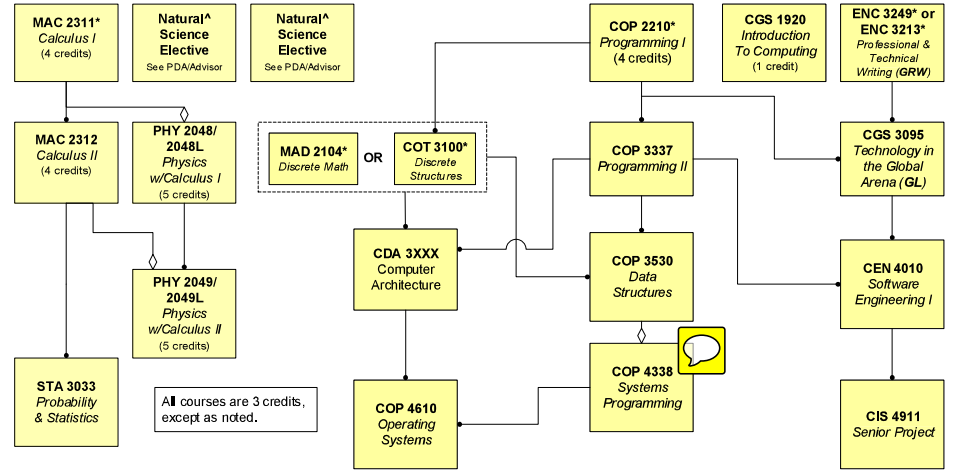
A line indicates a prerequisite. The course above must be completed before the course below can be taken.

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)



**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"/> COP 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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