



All courses are 3 credits, except as noted.

§ Both COP 2210 and COP 2210L must be registered together with the same professor.

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

- CAP 4506-Intro to Game Theory (Prereq: MAC2312)
- COP 4534-Algorithm Techniques (Prereq: COP3530)
- COP 4555-Programming Languages (Prereq: COP3530)
- COT 3541-Logic for CS (Prereq: COP3337 & COT3100)
- COT 4521-Intro to Computational Geometry (Prereq: COP3530)
- MAD 3305-Graph Theory (Prereq: COP2210, MAD2104)
- MAD 3401-Numerical Analysis (Prereq: COP2210, MAC2312)
- MAD 3512-Theory of Algorithms (Prereq: COP3530)
- MAD 4203-Combinatorics (Prereq: MAD2104, MAC2312)
- MHF 4302-Math Logic (Prereq: MAD3512)

Systems

- CAP 4453-Robot Vision (Prereq: COP3530, MAC2312)
- CDA 4625-Intro to Mobile Robotics (Prereq: COP3530, STA3033)
- CEN 4083-Cloud Computing (Prereq: CNT4713 and (CDA3102 or CDA4101))
- CIS 4731-Fund Blockchain Technologies (Prereq: COP3530)
- CNT 4713-Net Centric Computing (Prereq: COP4338)
- COP 4520-Intro to Parallel Computing (Prereq: COP3530 and (CDA3102 or CDA4101 or EEL4709))
- COP 4604-Advanced UNIX Programming (Prereq: COP4610)
- COP 4710-Database Management (Prereq: cop3337; Coreq: COP3530)
- COP 4751-Advanced Database Management (Prereq: COP4710)
- CTS 4408-Database Administration (Prereq: COP4710)
- COT 4431-Applied Parallel Computing (Prereq: COP3530 and (CDA3102 or CDA4101 or EEL4709))

Applications

- CAP 4052-Game Design & Dev (Prereq: (STA2023 or STA3033) and COP3530 and CAP4104)
- CAP 4104-Human Cmptr Interaction (Prereq: COP3337)
- CAP 4612-Introduction to Machine Learning (Prereq: COP3530, STA3033)
- CAP 4630-Artificial Intelligence (Prereq: COP3530)
- CAP 4641-Nat Lang Processing (Prereq: COP3530)
- CAP 4710-Computer Graphics (Prereq: COP3337, MAC2312)
- CAP 4770-Intro to Data Mining (Prereq: COP3530, Co-req: COP4710)
- CAP 4830-Modeling & Simulations (Prereq: (STA2023 or STA3033) and COP3530)
- CEN 4021-Software Engineering II (Prereq: CEN4010)
- CEN 4072-Software Testing (Prereq: COP3530)
- COP 4226-Adv Windows Program (Prereq: COP3530)
- COP 4655-Mobile App Dev (Prereq: (CAP4104 and CEN4010) or (CEN-3721 and COP4814))

* Prerequisites:
 - COP2210: MAC1140 or higher level math course
 - COT3100: Prereq: MAC XXXX and COP XXXX (any MAC course and any COP course)
 Coreq: (COP2210 or COP2250 or EEL2280)
 - ENC3249/ENC3213: UCC English requirements
 - MAC2311: MAC1147
 - MAD2104: MAC1105 or MGF1106
 ^ Natural Science electives: lab not needed unless required by offering dept.

