



% See advisor for other equivalent courses

All courses are 3 credits, except as noted.

At least nine of the credits for the minor must be taken from KFSCIS. Four of the minor courses cannot be courses that may be applied to the major program of the student.

CS Minor Electives (3 credits): Choose from all courses below:

Foundations

- COP 4534 – Algorithm Techniques (Prereq: COP3530)
- COP 4555 – Principles of Programming Languages (Prereq: COP3530)
- COT 3510 – Applied Linear Structures (Prereq: see syllabus; Coreq: COT3100 or MAD2104)
- COT 3541 – Logic for CS (Prereq: COP3337 & COT3100)
- COT 4521 – Intro to Computational Geometry (Prereq: COP3530)
- COT 4601 – Fundamentals of Quantum Computing (Prereq: (COP3337 or COP3804) and COT3100)

Systems

- CIS 4203 – Digital Forensics (Prereq: COP2047/EEL2880)
- CIS 4731 – Fund Blockchain Tech. (Prereq: COP2047 AND COT3100)
- COP 3530 – Data Structures (Prereq: COP3337 and (MAD2104 or COT3100))
- COP 4338 – Systems Programming (Coreq: CDA3102 and COP3530)
- COP 4520 – Intro to Parallel Computing (Prereq: COP3530 and (CDA3102 or CDA4101 or EEL4709))
- COP 4710 – Database Management (Prereq: COP3337)
- COT 4431 – Applied Parallel Computing (Prereq: COP3530 and (CDA3102 or EEL4709))

Applications

- CAI 4002 – Artificial Intelligence (Prereq: COP3530)
- CAP 4104 – Human Cmptr Interaction (Prereq: COP3337)
- CAP 4641 – Nat Language Processing (Prereq: COP3530)
- CAP 4830 – Modeling & Simulations (Prereq: (STA2023 or STA3033) and COP3530)
- CEN 4010 – Software Engineering I (Prereq: CGS3095 and COP3337)
- CEN 4021 – Software Engineering II (Prereq: CEN4010)
- CEN 4072 – Software Testing (Prereq: COP3530)
- COP 4226 – Adv Windows Prog. (Prereq: COP3530)

Career Readiness

- CIS 4947: Career Readiness (Prereq: Instructor permission)
- CIS 4912: Research Experience for Undergraduates – REU (Prereq: Instructor permission)
- CIS 4257: Empowering Emerging Tech Talent (Prereq: Senior standing)
- CIS 3590: Internship Ready Software Development (Prereq: COP2047, Coreq: COP3337)

* Pre-requisites:

- COP2047: MAC1140 or higher level math course
- COT3100: Prereq: any MAC course and any COP course, Coreq:(COP2047 or EEL2280)
- ENC3249/ENC3213: UCC English requirements
- MAC2311: MAC1147
- MAD2104: MAC1105 or MGF1106



A direction 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.