



**IT Electives** : Students must take twelve credits of electives. For those who are **pursuing two majors at the same time** the electives can be split between IT electives and approved cognate electives. All other students must take twelve credits of IT electives.

- CIS 4365 *Enterprise Cybersecurity* (Prereq: CNT4403 or EEL4806)
- CIS 4431 *IT Automation* (Co-req: CGS4285)
- CNT 4182 *Mobile & IoT Security* (Prereq: CNT4403 or EEL4806)
- CNT 4403 *Computing & Ntwk Security* (Prereq: COP3804 and CGS4285)
- CNT 4504 *Advanced Ntwk Mngmt* (Prereq: CNT4513)
- CNT 4513 *Data Communication* (Prereq: COP3804 & CGS4285)
- CNT 4603 *Windows System Admin* (Prereq: CGS3767)
- COP 4005 *Windows Prgm for IT* (Prereq: COP3337 & CEN3721, Co-req: COP4703)
- COP 4655 *Mobile Appl Prgm* (Prereq: COP4814 & CEN3721)
- COP 4722 *Survey of DB System* (Prereq: COP4703)
- COP 4813 *Web Appl Prgm* (Prereq: COP4005 & CGS4854)
- COP 4814 *Component Based Sftw Dev* (Prereq: COP4703 & CGS4854)
- CTS 4348 *Unix System Admin* (Prereq: CGS3767)
- CTS 4408 *Database Admin* (Prereq: COP4703)
- CTS 4743 *Enterprise IT Troubleshooting* (Prereq: COP-4703and (CNT4403 or EEL4806))

### Cognate Electives

(For students pursuing two majors at the same time)

A cognate elective is a course from the other major that is related to IT. If there are suitable courses that are required for the other major, they can replace up to six credits of IT electives. All cognate classes must be approved by advisers from both majors. **Pending advisor approval.**

\* MAD1100 & COT3100  
math prerequisite is  
MAC1105

↓ 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.