Computer Science major

- Enrollment in upper-division courses requires 2.8 GPA in CMPT 201, CMPT 202, and Math 201
- Students must have an overall 2.5 GPA in courses required for the major.
- Students must earn a C- or better in all required courses.
- In addition to the below, eight hours in a single foreign language and twelve hours of upper-division computer science electives are required.

Required Courses:

MATH 201 (Calculus I)  
offered every semester

MATH 210 (Discrete Math)  
offered every Fall and Spring semester  
\textit{prerequisite MATH 201}

CMPT 201 (Intro to Computer Science)  
offered every Fall semester  
\textit{co-requisite MATH 105}

CMPT 202 (Intro to Data Structures)  
offered every Spring semester  
\textit{prerequisite CMPT 201}

CMPT 251 (Computer Systems and Programming)  
offered every Fall semester  
\textit{prerequisite CMPT 201}

CMPT 306 (Algorithms and Data Structures)  
offered every Fall semester  
\textit{prerequisites CMPT 202, MATH 210}

CMPT 307 (Database Systems)  
scheduled for every Fall semester  
\textit{prerequisite CMPT 202}

CMPT 322 (Software Engineering)  
scheduled every other year (see schedule)  
\textit{prerequisite CMPT 202}

CMPT 328 (Computer Architecture)  
scheduled for odd Spring years  
\textit{prerequisite CMPT 251}

CMPT 351 (Operating Systems)  
scheduled for even Spring years  
\textit{prerequisites CMPT 251, CMPT 306}

CMPT 352 (Computer Networks)  
scheduled every other year (see schedule)  
\textit{prerequisite CMPT 202}

CMPT 300Y (Proposal Writing class) – 0 credit class  
offered every Fall semester

CMPT 390 (Senior Capstone class)  
offered every Spring semester  
\textit{prerequisite: taken in the last Spring semester of your course of study}
Computer Science upper-division electives:

Majors must take twelve hours from the list below (C- or better required).

*CMPT 202 is a prerequisite for all these classes:*

- **CMPT 300** – Special Topics (2 hours)
  offered every May
  maximum of four hours of CMPT 300 may be applied towards major

- **CMPT 301** – Artificial Intelligence (4 hours)
  *prerequisite CMPT 202*

- **CMPT 335** – Computer Security (4 hours)
  scheduled every other year
  *prerequisite CMPT 251*

- **CMPT 355** – Compilers (4 hours)
  *prerequisites CMPT 202 and CMPT 251*

- **CMPT 360** – Computer Graphics (4 hours)
  scheduled every other year
  *prerequisite CMPT 306*

- **CMPT 375** – E-Commerce (4 hours)
  scheduled every other year
  *co-requisite CMPT 307*

*Other (requires consent):*

- **CMPT 387** – Undergraduate Teaching (1 hour)
- **CMPT 401** – Directed Studies (1 – 2 hours)
- **CMPT 440** – Internship (1 – 8 hours)
  maximum of four hours of CMPT 440 may be applied towards major