



## CIST Computer Programming Diploma eMap

### 1<sup>st</sup> Semester

- CIST 1305 Program Design and Development
- CIST 1510 Web Development I
- CIST 1601 Information Security Fundamentals
- Gen Ed. General Education Course

### 2<sup>nd</sup> Semester

- CIST 1220 Structured Query Language
- CIST 2371 Java Programming I
- CIST 1401 Computer Networking Fundamentals
- Gen Ed. General Education Course

### 3<sup>rd</sup> Semester

- CIST 2372 Java Programming II
- CIST 2921 IT Analysis & Design/Project Management
- CIST Programming Elective Course I
- Gen Ed. General Education Course

### 4<sup>th</sup> Semester

- CIST 2373 Java Programming III
- CIST Programming Elective Course II
- CIST 2931 Advanced Systems Project (**Not offered in Summer Term**) or CIST 2991 Internship

**NOTE:** Diploma-seeking students are required to complete 9 credit hours of General Education courses.

For Programming Electives, two programming classes must be completed from the following:

- CIST 2301 – Swift Programming I
- CIST 2302 – Swift Programming II
- CIST 2341 – C# Programming I
- CIST 2342 – C# Programming II
- CIST 2351 – PHP Programming I
- CIST 2361 - C++ Programming I
- CIST 2742 – Python Programming I
- CIST 2747 – Python Programming II

## Program Notes:

- If you have computer or programming skills, consider taking the exemption exams for CIST 1305.
- If you plan to take CIST 2301 & 2302, it is recommended to take CIST 1306 instead of CIST 1305
- If you have earned certifications, course credit can be given based on this list:
  - CompTIA Network+ - CIST 1401
  - CompTIA Security+ - CIST 1601, CIST 1401
  - App Development with Swift Associate – CIST 1306
  - App Development with Swift Certified User – CIST 2301, CIST 1306
  - Certified Entry-Level Python Programmer – CIST 2742, CIST 1305
  - Certified Associate in Python Programming – CIST 2747, CIST 2742, CIST 1305
  - Oracle Certified Associate, Java SE 8 Programmer Certification – CIST 2371, CIST 1305
  - CPE – C++ Certified Entry-Level Programmer Certification – CIST 2361, CIST 1305
  - W3Schools HTML, CSS, Bootstrap Certificates (all 3) – CIST 1510
    - All three certifications must be completed and provide a personal portfolio
- This eMap along with meeting regularly with your program advisor and using DegreeWorks will help you stay on track to finish your program as quickly as possible and graduate from CTC.
- Meet with one of your Faculty Advisor every semester.
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