



## CIST Computer Programming AAS eMap

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

- CIST 1001 Computer Concepts
- CIST 1305 Program Design and Development or CIST 1306 Swift Foundations
- CIST 1510 Web Development I
- General Education Course

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

- CIST 1220 Structured Query Language
- CIST 2371 Java Programming I
- CIST 1601 Information Security Fundamentals
- General Education Course

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

- CIST 2372 Java Programming II
- CIST 2921 IT Analysis & Design/Project Management
- CIST 1520 Scripting Technologies
- General Education Course

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

- CIST 2373 Java Programming III
- CIST xxxx Programming Elective Course I
- ACCT 1100 Financial Accounting I or MGMT 1120 Introduction to Business
- General Education Course

### 5<sup>th</sup> Semester

- CIST xxxx Programming Elective Course I
- CIST 2931 Advanced Systems Project (**not offered in Summer term**) or CIST 2991 Internship
- General Education Course

**NOTE:** AAS Degree-seeking students are required to complete 15 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 1001 and CIST 1305.
- If you have earned certifications, course credit can be given based on this list:
  - CompTIA ITF+ or CompTIA Tech+ = CIST1001
  - CompTIA Security+ = CIST 1601, CIST 1001
  - App Development with Swift Associate – CIST 1306, CIST1001
  - App Development with Swift Certified User – CIST 2301, CIST 1306, CIST1001
  - Certified Entry-Level Python Programmer – CIST 2742, CIST 1305, CIST 1001
  - Certified Associate in Python Programming – CIST 2747, CIST 2742, CIST 1305, CIST 1001
  - Oracle Certified Associate, Java SE 8 Programmer Certification – CIST 2371, CIST 1305, CIST 1001
  - CPE – C++ Certified Entry-Level Programmer Certification – CIST 2361, CIST 1305, CIST 1001
  - W3Schools HTML, CSS, Bootstrap Certificates (all 3) – CIST 1510, CIST 1001
    - All three certifications must be completed and provide a personal portfolio
- If you plan to take CIST 2301 & 2302, it is recommended to take CIST 1306 instead of CIST 1305
- 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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