

This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability. For counseling appointments call 916.608.6510.

FIRST YEAR

Semester 1:

6 units

CAT.	COURSE	TITLE	GE AREA
Req	CISC 310	Introduction to CIS	3
Req	CISP 300	Algorithm Design/Problem Solving	3

Semester 2:

4 units

Req	CISP 360* or CISP 370	Introduction to Structured Programming or Beginning Visual BASIC	4
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SECOND YEAR

Semester 3:

4 units

CAT.	COURSE	TITLE	GE AREA
Req	CISP 400* or CISP 401* or CISP 405*	Object Oriented Programming with C++ or Object Oriented Programming with Java or Object Oriented Programming using C# on Visual Studio NET	4

Semester 4:

7 units

Req	CISP 430*	Data Structures	4
Req	CISP 440*	Discrete Structures for Computer Science	3

* This course has a prerequisite or corequisite course.

Notes:

- The Computer Programming Certificate provides students with the basic proficiencies required of entry level software technicians and computer programmers, or for further study in computer science.

EXPLANATION OF CATEGORIES

Req	Required Core	A course that is required for this degree
GE	General Education	A course that fulfills a specific general education requirement for this degree, which can be replaced with another course that meets the same requirement
Elec	Elective	A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree