Associate in Science in Computer Science

Technological Competency

☐ CSCI 111   4 Credits
Computer Science I

☐ CSCI 112   4 Credits
Computer Science II

☐ CSCI 211   4 Credits
Data Structures and Algorithms

☐ CSCI 218   4 Credits
Statistics for Computing and Data Science

☐ CIS 205   4 Credits
Database Management Systems

☐ CSCI 213   4 Credits
Computer Organization

☐ ELECTIVE   4 Credits
Directed Elective*
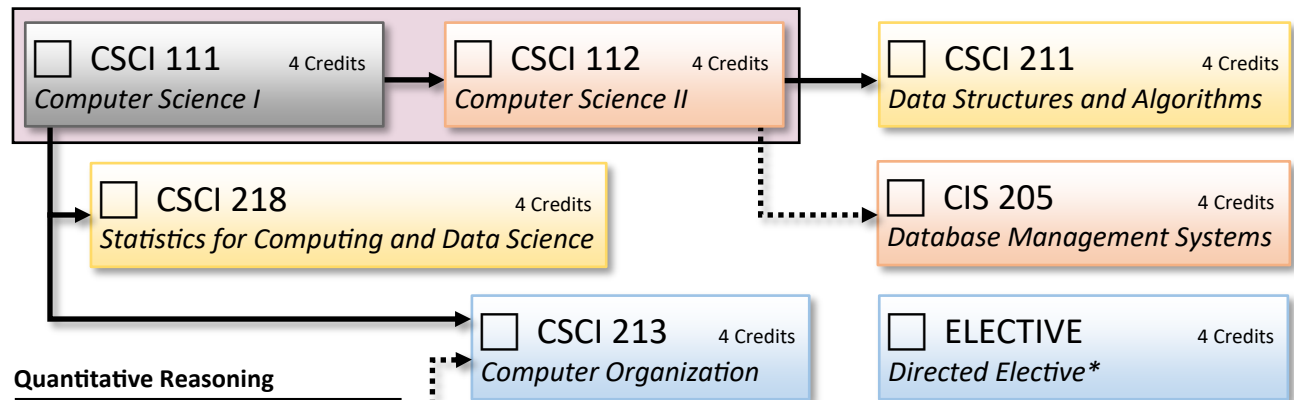
Quantitative Reasoning

☐ MATH 163   4 Credits
Discrete Mathematics I

☐ MATH 171   4 Credits
Calculus I

☐ MATH 172   4 Credits
Calculus II

Scientific Reasoning

☐ PHYS 140   5 Credits
Mechanics, Heat, and Sound

☐ PHYS 240   5 Credits
Electricity, Magnetism, and Light
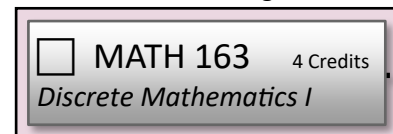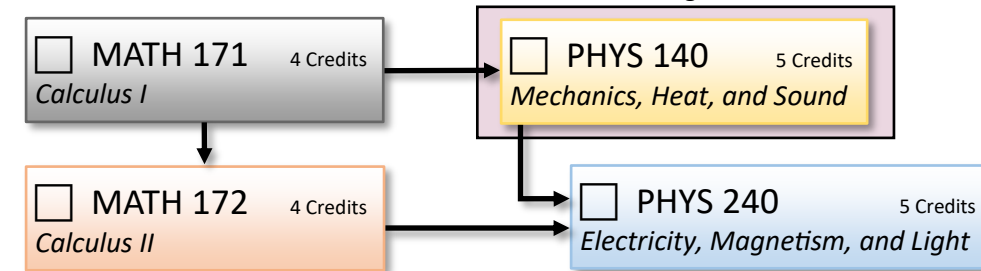
Writing, Research, and Information Literacy

☐ ENGL 101   3 Credits
English Composition

☐ ENGL 102   3 Credits
The Research Paper
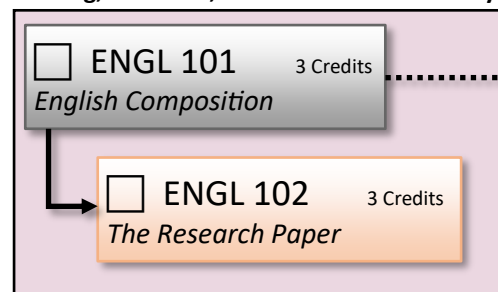
Oral Communication & Creative Expression

☐ ENGL 115   3 Credits
Public Speaking

Legend

| First Semester |
| Second Semester |
| Third Semester |
| Fourth Semester |
| → Prerequisite |
| ⇢ May be taken concurrently |

Choose One

☐ HUM 101   3 Credits
Cultural Traditions
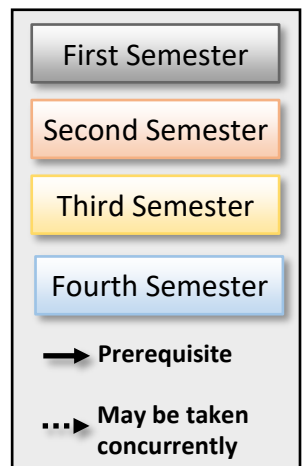
☐ WORLD LANG   3 Credits
World Language Course**
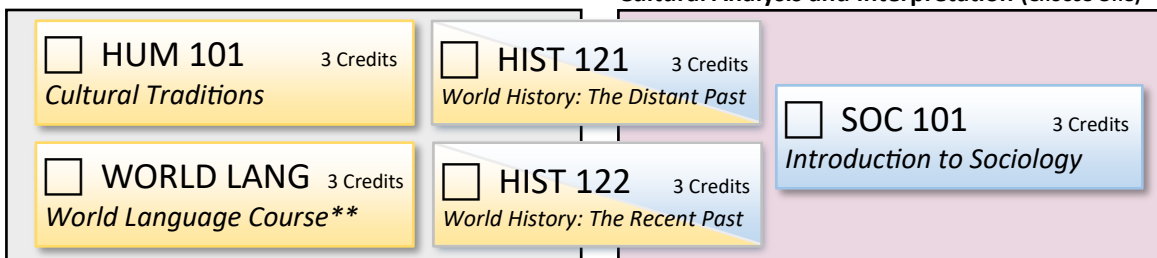
Cultural Analysis and Interpretation (Choose One)

☐ HIST 121   3 Credits
World History: The Distant Past

☐ HIST 122   3 Credits
World History: The Recent Past

☐ SOC 101   3 Credits
Introduction to Sociology

AT LEAST 65 CREDITS AND 2.0 OVERALL GPA ARE REQUIRED FOR GRADUATION.
A GRADE OF "C" OR BETTER IS REQUIRED FOR ALL COURSES.

* See second page for a list of approved directed elective courses.
** Any language course in Arabic, Chinese, French, Italian, Hebrew, Japanese, or Spanish may be chosen.

Students should meet with a faculty advisor before selecting their directed elective course.

Directed Electives (Choose One)

CSCI 111	4 Credits
Computer Science I	

☐ **CIS 200**   4 Credits
Apple App Development I

☐ **CIS 211**   4 Credits
Android App Development I

CSCI 218	4 Credits
Statistics for Computing and Data Science	

☐ **CSCI 221**   4 Credits
Machine Learning

MATH 163	4 Credits
Discrete Mathematics I	

☐ **MATH 263**   4 Credits
Discrete Mathematics II

MATH 171	4 Credits
Calculus I	

☐ **MATH 271**   4 Credits
Linear Algebra

MATH 172	4 Credits
Calculus II	

→ **Prerequisite**

┈┈▶ **May be taken concurrently**

MINIMUM ENTRY REQUIREMENTS

- ENGL 101 Ready
- MATH 162 Ready (MATH 161 with a grade of "C" or better or higher placement)

A.S. IN COMPUTER SCIENCE GRADUATION REQUIREMENTS

- At least 65 credits as prescribed
- Overall GPA of at least 2.0
- A grade of "C" or better in all courses applied towards the degree

ADDITIONAL PREREQUISITE INFORMATION

- MATH 171: MATH 162 with a grade of "C" or better (or placement in MATH 171)
- CSCI 218: CSCI 111 with a grade of "C" or better **and** MATH 162 with a grade of "C" or better (or placement in MATH 171 or higher)