

# OAKLAND COMMUNITY COLLEGE

## Computer Information Systems Software Engineering Option (CIS.SWE.AAS) - Full Time - Fall Start 2022-2023

\*\*Students should meet with an OCC counselor before attempting this plan of study\*\*

### Year 1 - FALL

| COURSES  |                                  |                          |
|----------|----------------------------------|--------------------------|
| CIS 1200 | Introduction to Database Systems | 4                        |
| CIS 1300 | Networking Concepts              | 4                        |
| CIS 1420 | HTML 5 Programming               | 3                        |
| ENG 1510 | Composition I                    | 3                        |
|          |                                  | <b>TOTAL CREDITS: 14</b> |

### Year 1 - WINTER

| COURSES  |                                     |                          |
|----------|-------------------------------------|--------------------------|
| CIS 1440 | JavaScript Programming for Websites | 4                        |
| CIS 1500 | Introduction to Programming (Java)  | 4                        |
| CIS 1512 | Principles of Software Engineering  | 3                        |
| PHI 1710 | Introduction to Informal Logic      | 3                        |
|          |                                     | <b>TOTAL CREDITS: 14</b> |

### Year 1 - SUMMER

| COURSES  |                                    |                         |
|----------|------------------------------------|-------------------------|
| CIS 2151 | Object-Oriented Programming (Java) | 4                       |
| Gen Ed   | Social Science                     | 3                       |
|          |                                    | <b>TOTAL CREDITS: 7</b> |

### Year 2 - FALL

| COURSES   |                                   |                          |
|---|-----------------------------------|--------------------------|
| CIS 2111  | Systems Analysis and Design (UML) | 4                        |
| CIS 2353  | Data Structures                   | 4                        |
| MAT 1150 <sup>1</sup>   | Intermediate Algebra              | 4                        |
|   |                                   | <b>TOTAL CREDITS: 12</b> |
| <b>MILESTONE:</b> Make an appointment to meet with aCounselor to apply for this degree. |                                   |                          |

### Year 2 - WINTER

| COURSES  |                                    |                          |
|----------|------------------------------------|--------------------------|
| COM 1290 | Interpersonal Communication        | 3                        |
| CIS 2252 | Object-Oriented Programming (C++)  | 4                        |
| CIS 2454 | Web System Development (PHP, Java) | 4                        |
| CIS 2818 | Mobile App Development (Android)   | 4                        |
|          |                                    | <b>TOTAL CREDITS: 15</b> |

**Total Credits: 62**

### Notes:

**1 or higher level MAT course (except MAT 1525, MAT 2530, or MAT 2540)**

