

# C# and Mobile Device Programming One-Year Certificate

PROFESSIONAL TECHNICAL

2017-2018 Certificate Requirements

## Major Courses

| Course  | No. | Course Title                            | Credits | Qtr. Completed | Comments/Substitution |
|---|-----|---|---------|----------------|-----------------------|
| CS  | 102 | Programming Fundamentals                | 5       |                |                       |
| CS  | 106 | Database Systems <i>or</i>              | 5       |                |                       |
| CS  | 225 | SQL Server Programming                  | 5       |                |                       |
| CS  | 115 | HTML5-Cascading Style Sheets            | 5       |                |                       |
| CS  | 117 | Computer Ethics <i>or</i>               | 2       |                |                       |
| CS  | 118 | Customer Service                        | 3       |                |                       |
| CS  | 150 | Computer Security                       | 5       |                |                       |
| CS  | 202 | Programming Fundamentals 2              | 5       |                |                       |
| CS  | 250 | HTML5-JavaScript/JQuery                 | 5       |                |                       |
| CS  | 262 | Game Programming Design and Development | 5       |                |                       |
| <b>Select 10 additional credits from any CS courses</b> |     |   |         |                |                       |
| CS  |     |   | 5       |                |                       |
| CS  |     |   | 5       |                |                       |

**Subtotal 47-48**

## General Education

| Course  | No.                                       | Course Title                                 | Credits | Qtr. Completed | Comments/Substitution |
|---|---|--|---------|----------------|-----------------------|
| ENG&  | 101+                                      | English Composition <i>or</i> above          | 5       |                |                       |
| MATH&   | 141, 142, 144, 146, 148, 151, 152, or 153 |  | 5       |                |                       |
| <b>Psychology or Sociology (select 5 credits)</b> |   |  |         |                |                       |
| PSYC&   | 100+                                      | General Psychology <i>or</i> above <i>or</i> | 5       |                |                       |
| SOC&  | 101                                       | Intro to Sociology <i>or</i>                 | 5       |                |                       |
| SOC&  | 201                                       | Social Problems                              | 5       |                |                       |
| <b>Communication Studies (select 3-5 credits)</b> |   |  |         |                |                       |
| CMST  | 101                                       | Speech Essentials <i>or</i>                  | 3       |                |                       |
| CMST  | 110                                       | Communication Behavior <i>or</i>             | 3       |                |                       |
| CMST&   | 220                                       | Public Speaking <i>or</i>                    | 5       |                |                       |
| CMST&   | 210                                       | Interpersonal Communication <i>or</i>        | 5       |                |                       |
| CMST  | 260                                       | Multicultural Communication                  | 5       |                |                       |

**Subtotal 18-20**

**Total Credits Required 65-68**

Note: MATH 094 or MATH 095 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes. Students must receive minimum 2.5 grade in all CS courses.