

### Appendix C: Curriculum Pathway

| SEMESTER 1                                              | CLASS                                                                                                      | HOURS         |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------|
| ENGLISH 101 <sup>1</sup>                                | Composition <sup>1</sup>                                                                                   | 3             |
| CIS 103 <sup>2</sup>                                    | Fundamentals of Programming <sup>2</sup>                                                                   | 3             |
| Physical Sciences course <sup>1</sup>                   |                                                                                                            | 3             |
| MATH 146 <sup>1,3</sup>                                 | Discrete Mathematics <sup>1,3</sup>                                                                        | 4             |
| Humanities course <sup>1</sup>                          |                                                                                                            | 3             |
|                                                         | <b>Total Semester Hours</b>                                                                                | <b>16</b>     |
| SEMESTER 2                                              | CLASS                                                                                                      | HOURS         |
| ENGLISH 102 <sup>1</sup>                                | Composition <sup>1</sup>                                                                                   | 3             |
| Social & Behavioral Sciences course <sup>1</sup>        |                                                                                                            | 3             |
| CIS 142 or CIS 144 <sup>2</sup>                         | C++ Object Oriented Programming I or<br>Java Object Oriented Programming I <sup>2</sup><br>(IAI: CS 911)   | 3             |
| MATH 207 or other MATH elective                         | Calculus & Analytic Geometry I or other<br>Math elective                                                   | 4-5           |
| Social and Behavioral Sciences course (HD) <sup>1</sup> |                                                                                                            | 3             |
|                                                         | <b>Total Semester Hours</b>                                                                                | <b>16-17</b>  |
| SEMESTER 3                                              | CLASS                                                                                                      | HOURS         |
| SPEECH 101 <sup>1</sup>                                 | Fundamentals of Speech Communication <sup>1</sup>                                                          | 3             |
| CIS 242 or CIS 244 <sup>2</sup>                         | C++ Object Oriented Programming II or<br>Java Object Oriented Programming II <sup>2</sup><br>(IAI: CS 912) | 3             |
| CIS 114                                                 | Mobile Application Development                                                                             | 3             |
| MATH 208 or MATH elective or CIS 245                    | Calculus & Analytic Geometry II or other<br>elective or Principles of Software<br>Development              | 3-5           |
|                                                         | <b>Total Semester Hours</b>                                                                                | <b>12-14</b>  |
| SEMESTER 4                                              | CLASS                                                                                                      | HOURS         |
| Life Sciences course <sup>1</sup>                       |                                                                                                            | 4             |
| Physical Sciences or Life Sciences course <sup>1</sup>  |                                                                                                            | 3             |
| Fine Arts course <sup>1</sup>                           |                                                                                                            | 3             |
| MATH 209 or MATH 125                                    | Calculus & Analytic Geometry III or<br>Introductory Statistics <sup>1</sup>                                | 4-5           |
|                                                         | <b>HOURS</b>                                                                                               | <b>14-15</b>  |
|                                                         | <b>TOTAL HOURS</b>                                                                                         | <b>58*-62</b> |

Legend:

<sup>1</sup>General Education Requirement

<sup>2</sup>Pathway Elective

<sup>3</sup>ALEKS-based placement or prerequisite: MATH 140 College Algebra

\*If the course sequence is less than 60 credit hours, students will need to take one additional elective.