

# College of Engineering and Computer Science

Computer Science  
Fall 2016

Name \_\_\_\_\_  
SUID \_\_\_\_\_

pr=prerequisite, co=corequisite

Minor/Second Major (if any): \_\_\_\_\_

| CREDIT GRADE  | FIRST-YEAR |   | SOPHOMORE      |           | JUNIOR    |              | SENIOR    |           | VAR       |           |
|---|------------|---|----------------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|
|   | F          | S   | F              | S         | F         | S            | F         | S         |           |           |
| <b>G Writing Skills (6 cr) Minimum Grade C-</b>   |            |   |                |           |           |              |           |           |           |           |
| E   | WRT105     | Studio 1: Practices of Academic Writing                     | (3)_____       | 3         |           |              |           |           |           |           |
| N   | WRT205     | Studio 2: Critical Research and Writing (pr: WRT 105)       | (3)_____       |           |           | 3            |           |           |           |           |
| <b>Presentational Skills (3 cr) Minimum Grade C-</b>  |            |   |                |           |           |              |           |           |           |           |
| <b>Select one of the following three courses:</b>   |            |   |                |           |           |              |           |           |           |           |
|   | CRS 225    | Public Advocacy (3)   | (3)_____       |           |           | 3            |           |           |           |           |
|   | CRS/CAS325 | Presentational Speaking (3)                                 |                |           |           |              |           |           |           |           |
| E   | IST 444    | Info. Reporting & Presentations (3)                         |                |           |           |              |           |           |           |           |
| <b>D SSH/VPA (21 credits)</b>   |            |   |                |           |           |              |           |           |           |           |
| U   | ECS 392    | Ethical Aspects of ECS                                      | (3)_____       |           |           |              |           | 3         |           |           |
| C   | PHI 251    | Logic   | (3)_____       | 3         |           |              |           |           |           |           |
| A   | SSH/VPA    | _____   | (3)_____       | 3         |           |              |           |           |           |           |
| T   | SSH/VPA    | _____   | (3)_____       |           | 3         |              |           |           |           |           |
| I   | SSH/VPA    | _____   | (3)_____       |           |           | 3            |           |           |           |           |
| O   | SSH/VPA    | _____   | (3)_____       |           |           |              | 3         |           |           |           |
| N   | SSH/VPA    | _____   | (3)_____       |           |           |              |           | 3         |           |           |
| <b>Natural Sciences (12 cr) Two semester lab sequence in Natural Sciences</b>   |            |   |                |           |           |              |           |           |           |           |
|   | PHY211     | General Physics 1 (co: PHY 221, MAT 295)                    | (3)_____       | 3         |           |              |           |           |           |           |
| R   | PHY221     | General Physics Lab 1 (co: PHY 211)                         | (1)_____       | 1         |           |              |           |           |           |           |
| E   |            | Natural Science Elective _____                              | (4)_____       |           |           | 4            |           |           |           |           |
| Q   |            | Natural Science Elective _____                              | (4)_____       |           |           |              | 4         |           |           |           |
| <b>M Free Electives (9 cr)</b>  |            |   |                |           |           |              |           |           |           |           |
| N   |            | Free Elec _____   | (3)_____       |           | 3         |              |           |           |           |           |
| T   |            | Free Elec _____   | (3)_____       |           |           |              |           | 3         |           |           |
| S   |            | Free Elec _____   | (3)_____       |           |           |              |           |           | 3         |           |
| <b>Mathematics (15-16 cr) Minimum Grade of C-</b>   |            |   |                |           |           |              |           |           |           |           |
|   | MAT295     | Calculus 1  | (4)_____       | 4         |           |              |           |           |           |           |
| M   | MAT296     | Calculus 2 (pr: MAT295)                                     | (4)_____       |           | 4         |              |           |           |           |           |
| A   | MAT397/    | 331 Calculus or Linear Algebra (pr: MAT 296)                | (4-3)_____     |           |           | 4 or 3       |           |           |           |           |
| J   | CIS321     | Intro. to Probability & Statistics (pr: MAT 295)            | (4)_____       |           |           | 4            |           |           |           |           |
| <b>O Engineering Courses (6 cr)</b>   |            |   |                |           |           |              |           |           |           |           |
| R   | ECS101     | Intro. to Engineering & Computer Sci                        | (3)_____       | 3         |           |              |           |           |           |           |
|   | ECS102     | Intro. to Computing   | (3)_____       | 3         |           |              |           |           |           |           |
| <b>Comp Sci Core (33 cr) 2.667 GPA &amp; Minimum Grade C-</b>   |            |   |                |           |           |              |           |           |           |           |
|   | CIS252     | Intro. to Computer Science                                  | (4)_____       |           | 4         |              |           |           |           |           |
|   | CIS375     | Intro. to Discrete Mathematics (pr: PHI 251)                | (3)_____       |           |           | 3            |           |           |           |           |
|   | CIS341     | Comp. Organization & Prog. Systems (pr: ECS 102 or CIS 252) | (3)_____       |           |           |              | 3         |           |           |           |
|   | CIS342     | Intro. to Systems Programming (pr: CIS 351, co: CIS 341)    | (1)_____       |           |           |              | 1         |           |           |           |
| R   | CIS351     | Data Structures (pr: CIS 252)                               | (4)_____       |           |           | 4            |           |           |           |           |
| E   | CIS352     | Programming Lang: Theory & Prac. (pr: CIS 275, CIS 351)     | (3)_____       |           |           |              | 3         |           |           |           |
| Q   | CIS453     | Software Specification & Design (pr: CIS 351 or CSE 382)    | (3)_____       |           |           |              |           | 3         |           |           |
| U   | CIS454     | Software Implementation (pr: CIS 453)                       | (3)_____       |           |           |              |           |           | 3         |           |
| I   | CIS473     | Computability Theory (pr: CIS 275, or MAT 275)              | (3)_____       |           |           |              |           |           | 3         |           |
| R   | CIS477     | Intro. to Analysis of Algorithms (pr: CIS 275, CIS 351)     | (3)_____       |           |           |              | 3         |           |           |           |
| E   | CIS486     | Operating Systems (pr: CIS 341, 342, 351 or CSE 281, 382)   | (3)_____       |           |           |              |           | 3         |           |           |
| <b>M Upper Division Courses (18 cr) Minimum Grade C- At least 9 credits of Upper Division MUST be in Computer Science</b> |            |   |                |           |           |              |           |           |           |           |
| E   |            | Upper Div _____   | (3)_____       |           |           |              |           | 3         |           |           |
| N   |            | Upper Div _____   | (3)_____       |           |           |              |           |           | 3         |           |
| T   |            | Upper Div _____   | (3)_____       |           |           |              |           |           |           | 3         |
| S   |            | Upper Div _____   | (3)_____       |           |           |              |           |           |           | 3         |
|   |            | Upper Div _____   | (3)_____       |           |           |              |           |           |           | 3         |
|   |            | Upper Div _____   | (3)_____       |           |           |              |           |           |           | 3         |
| <b>TOTAL CREDITS</b>  |            |   | <b>123-124</b> | <b>16</b> | <b>15</b> | <b>13-14</b> | <b>17</b> | <b>16</b> | <b>16</b> | <b>15</b> |

