**Student** _____

**ID #** _____

**Advisor** _____

# ENGINEERING, A.A. & S. DEGREE
## *Computer Science Specialization*

| Sem. & Yr. Taken | | **FIRST SEMESTER - FALL** | | Grade |
|---|---|---|---|---|
| _____ | CSC 221 | Intro to Problem Solving & Programming | 3 | ____ |
| _____ | CHM 111 | College Chemistry I | 4 | ____ |
| _____ | EGR 121 | Foundations of Engineering | 2 | ____ |
| _____ | ENG 111 | College Composition I | 3 | ____ |
| _____ | MTH 263 | Calculus I | 4 | ____ |
| _____ | SDV 100 | College Success Skills | 1 | ____ |
| | | | 17 | |

| Sem. & Yr. Taken | | **THIRD SEMESTER- FALL** | | Grade |
|---|---|---|---|---|
| _____ | CSC 222 | Object-Oriented Programming | 4 | ____ |
| _____ | MTH 265 | Calculus III | 4 | ____ |
| _____ | PHY 241 | University Physics I | 4 | ____ |
| _____ _____ | | EGR Social Science Elective(s)[2] | 3 | ____ |
| _____ _____ | | Health or Physical Education Elective(s) | 1 | ____ |
| | | | 16 | |

| Sem. & Yr. Taken | | **SECOND SEMESTER - SPRING** | | Grade |
|---|---|---|---|---|
| _____ | EGR 122 | Engineering Design | 3 | ____ |
| _____ | ENG 112 | College Composition II | 3 | ____ |
| _____ | MTH 264 | Calculus II | 4 | ____ |
| _____ _____ | | EGR Humanities/Fine Arts Elective(s)[1] | 3 | ____ |
| _____ | HIS 101 | Western Civilizations Pre-1600 CE (or HIS 121/HIS 102/HIS 122) | 3 | ____ |
| | | | 16 | |

| Sem. & Yr. Taken | | **FOURTH SEMESTER - SPRING** | | Grade |
|---|---|---|---|---|
| _____ | CSC 223 | Data Structures and Analysis of Algorithms | 4 | ____ |
| _____ _____ | | EGR Humanities/Fine Arts Elective(s)[1] | 3 | ____ |
| _____ | CST 100 | Principles of Public Speaking | 3 | ____ |
| _____ | MTH 288 | Discrete Mathematics[3] | 3 | ____ |
| _____ _____ | | Engineering Technical Elective(s)[4] | 3-4 | ____ |
| | | | 16-17 | |

## TOTAL MINIMUM CREDITS FOR A.A. & S. DEGREE – 65-66

[1]Students may choose from college approved Humanities/Fine Arts Elective in the college catalog. The two required Humanities/Fine Arts electives cannot be from the same discipline area.

[2]Social Science electives include the following: ECO (excluding ECO 120), GEO, PLS, PSY (excluding PSY 120), or SOC. Virginia Tech may recommend ECO 201-202; students should consult the specific requirements of the specific program at the transfer institution.

[3]MTH 288 is a co-requisite for CSC 223.

[4]Students may choose from the following Engineering Technical Electives: EGR 126 (3 cr), EGR 140 (3 cr), EGR 206 (2 cr), EGR 245 (3 cr), EGR 246 (3 cr), EGR 248 (3 cr), EGR 251 (3 cr), EGR 255 (1 cr), CHM 112 (4 cr), BIO 102 (4 cr), ECO 201 (3 cr), ECO 202 (3 cr), PHY 242 (4 cr).

**NOTES:**

Students planning to transfer should consult the four-year transfer institution to determine course recommendations prior to registering for classes at NRCC.

General transfer information is available at www.nr.edu/transfer.

For students transferring to Virginia Tech. The Computer Science degree at Virginia Tech requires 12 credit hours of natural science electives. Eight (8) of these credits must be in a sequence. This can be satisfied by completing PHY 241/242, CHM 111/112, or BIO 101/102.

VT Foreign Language Graduation Requirement: Students must have had 2 years of a foreign language in high school or one year at the college level (6 credit hours) of the same language. College level credits used to meet this requirement do not count towards the degree.