Bachelor of Science in Computer Science -- 120 Credits

Applied Track

Effective August 2017

GENERAL EDUCATION REQUIREMENTS REQUIRED COURSES (RG 7257) WORLDS OF KNOWLEDGE (RG 7256) Foundational Courses CR Satisfied/Term Aesthetic and Creative Expression (RQ 3148) Global History & Culture (RQ 3149) Number Course Title Engcmp 0003 or 0005 3 Number Course Title CR Satisfied/Terr CR Satisfied/Terr Subject ubject Engcmp 0004 or 0006 3 3 3 CommRc 0052 Public Speaking 3 3 3 Basic Algebra or Placement Test Math 0001 Algebra 1 3 Societies & Civics (RQ 3150) Science & Nature (RQ 3153) CR Satisfied/Term CR Satisfied/Term Quantitative Reasoning (QR) - 1 Course Subject Number Course Title Subject Number Course Title Note - a student cannot test out of their QR requirement. 3 Math 0221 Analytic Geom & Calc 1 4 3 3 3 FREE ELECTIVES Follow-Up Courses (RQ 3154) Free electives are the balance of credits required for CR Satisfied/Term Number Course Title Subject graduation (120) that are not used to satisfy competencies, /lath 0401 Discrete Math Structures 3 knowledge areas, major requirements, electives, or any 3 related area required by the department. CR Satisfied/Term Each student must take 2 courses in each World of Knowledge. The two courses taken within each World nust be from different subjects. A student must take two additional "Follow-Up" courses from any World. >The minimum number of courses taken in the Worlds must be 10. The Follow-Up courses may repeat a subject previously taken in a World. A student cannot use a major required Subject course in one of the Worlds. For example: A Biology student cannot use BIOL 0110 to fulfill a requirement in the Science and Nature World. Students cannot use a course to count both in their QR requirement and one of the Worlds. Students can choose QR and Worlds of Knowledge courses from published course lists.

| First Term | (RQ 3395) | | | |
|------------|------------------------------|-------------------------|----------|--------|
| Complete t | he following Courses | CR | Satisfie | d/Term |
| Math 0401 | Discrete Math Structures | 3 | | |
| CS 0100 | Perspectives in Comp Science | 3 | | |
| Requireme | nt Satisfied | tives in Comp Science 3 | | |

| Second Term (RQ 3396) | | | | |
|--|--------------------------------|---|--------|--|
| Complete the following Courses CR Satisfie | | | d/Term | |
| CS 0406 | Discrete Math 2 and Statistics | 3 | | |
| CS 0410 | Intro to CS Prog Applications | 1 | | |
| CS 0411 | Intro to CS Programming | 3 | | |
| Requirement Satisfied | | 7 | | |

| Third Term (RQ 3397) | | | | | |
|--------------------------------|------------------------------|----|----------|----------------|--|
| Complete the following Courses | | CR | Satisfie | Satisfied/Term | |
| CS 0045 | Algos & Info Structure Apps | 1 | | | |
| CS 0046 | Comp Sys Architecture Apps | 1 | | | |
| CS 0455 | Algos & Info Structure | 3 | | | |
| CS 0456 | Computer System Architecture | 3 | | | |
| Requirement Satisfied | | 8 | | | |

| Fourth Term (RQ 3398) | | | | |
|-----------------------|--|---|--|--------|
| Complete | Complete the following Courses CR Satisfied/Tern | | | d/Term |
| CS 0047 | Adv Program Concepts Apps | 1 | | |
| CS 0048 | Data Structures & Files Apps | 1 | | |
| CS 0457 | Adv Programming Concepts | 3 | | |
| CS 0458 | Data Structures & Files | 3 | | |
| Requirement Satisfied | | 8 | | |

IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

Updated 04/11/2023

MAJOR REQUIREMENTS (RG 7269)

| Required Upper Level (RQ 3408) | | | | |
|--------------------------------|---------------------------------|----|----------|--------|
| Complete the following Courses | | CR | Satisfie | d/Term |
| Math 0221 | Analytic Geom & Calculus 1 | 4 | | |
| CS 1165 | Directed Project | 3 | | |
| CS 1735 | Software Design Methods | 3 | | |
| CS 1736 | Software Engineering | 3 | | |
| CS 1760 | Adv Object-Oriented Programming | 3 | | |
| CS 1765 | Database Mgmt Systems | 3 | | |
| Requirement Satisfied | | 19 | | |

| Select 15 | credits from the following courses | CR | Satisfied/Term |
|-----------|-------------------------------------|----|----------------|
| CS 1163 | Advanced Topics in CS | 3 | |
| CS 1164 | Advanced CS Topics and Apps | 3 | |
| CS 1713 | Algorithm Design | 3 | |
| CS 1720 | Programming Languages | 3 | |
| CS 1750 | Systems Programming | 3 | |
| CS 1761 | Mobile Application Development | 3 | |
| CS 1762 | Web Programming | 3 | |
| CS 1766 | Intro to Computer Graphics | 3 | |
| CS 1783 | Artificial Intelligence Programming | 3 | |
| CS 1792 | Operating Systems | 3 | |
| CS 1793 | Computer Architecture & Org | 3 | |
| Requirem | ent Satisfied | 15 | |