

School of Arts & Sciences
Three-Year Graduation Plan

Bachelor of Science in Computer Science
Recommended Program Plan beginning Fall 2014 (even year)
(Subject to change depending on credits transferred in by student)

Computer Science Program Plan Coordinator: Dr. Alec Engebretson

Prior to Year #1

9 Credits – Evaluated during creating of program plan.

Important Note: *Students must show completion of high school pre-calc in order to participate in this program.*

Year #1

Fall – 18 Credits

LAR 101 – Liberal Arts Seminar (3)
IST 140 - Introduction to Information Science and Technology (3)
IST 145 – Introduction to Programming and Problem-Solving (3)
Math 235 – Calculus 1 (4)
FAK – Foundational Area of Knowledge – Core Requirement (3)
General Elective (2)

Spring – 18 Credits

IST 146 – Programming and Problem-Solving II (3)
Math 250 – Foundations of Mathematics (3)
FAK – Foundational Area of Knowledge – Core Requirement (3)
FAK – Foundational Area of Knowledge – Core Requirement (3)
Minor – (3)
Minor – (3)

Summer after Year #1

6 Credits – Approved with guidance of faculty advisor

Year #2

Fall – 18 Credits

LAR 202 – Liberal Arts Seminar (3)
IST 246 – Data Structures and Algorithms (3)
IST 252 – Principles of Digital Logic & Computer Organization (3)
FAK – Foundational Area of Knowledge – Core Requirement (3)
Minor – (3)
Minor – (3)

Spring – 18 Credits

ATV 137 – Doane Information Solutions Cadre (DISC) (1)
IST 314 – Design and Analysis of Algorithms (3)
IST 357 – System Architecture and Software (3)
FAK – Foundational Area of Knowledge – Core Requirement (3)
FAK – Foundational Area of Knowledge – Core Requirement (3)
Minor – (3)
General Elective (2)

Summer after Year #2

6 Credits – Approved with guidance of faculty advisor

Year #3

Fall – 15 Credits

LAR 303 – Liberal Arts Seminar (3)
IST 421 – Information Science & Technology Internship (3)
IST 3xx – IST Elective (3)
IST 495 – Information Science & Technology Seminar (1)
FAK – Foundational Area of Knowledge – Core Requirement (3)
General Elective (2)

Spring – 15 Credits

IST 315 – Theory of Computation (3)
IST 3xx – IST Elective (3)
IST 495 – Information Science & Technology Seminar (1)
Minor – (3)
Minor – (3)
General Elective (2)

IMPORTANT:

1. Students are required to transfer in 9 credits for 3-year guarantee eligibility. These credits have the potential to alter program plan slightly but careful planning is required to maintain IST course schedule. If a student transfers more than 9 credits to start, it can either affect the student's semester or summer loads in the 3-year program plan.
2. Students are required to earn 123 credits for graduation. The above plan shows 9 credits transferred in prior to enrollment, 12 credits during summers after years 1 and 2, plus the total of 102 credits earned during fall and spring semesters.
3. Computer Science majors are required to have a minor (21 credits assumed in order to achieve 3-year program).
4. The Undergraduate Core requires 3 LAR courses, 7 FAK courses, and 1 experiential learning course (IST 421 – Internship). These have been met in the above plan.