**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

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**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)
- 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)

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**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.