**Bachelor of Science in Computer & Information Technology** 120 credits

A Bachelor of Science in Computer & Information Technology degree has four basic components:

1. General Education & Institutional Requirements, excluding Mathematics, which is included in the degree requirements (minimum 29 credits)
2. Core Discipline Requirements (52 - 54 credits)
3. Discipline Elective Requirements (21 credits)
4. Electives (up to 18 credits)

**DSC General Education & Institutional Requirements**

All DSC General Education & Institutional Requirements must be fulfilled. A previously earned degree may fulfill those requirements, but courses must be equivalent to DSC’s minimum General Education standards in American Institutions, English, and Mathematics.

**Institutional Requirement**

Complete **one** of the following:

* CIS 1200 Computer Literacy (3)
* CIS 1201 Computer Literacy Exam (0)

**General Education Requirements**

Complete the following:

* ENGL 1010 Intro to Writing (3)
* ENGL 1010 Intermediate Writing (3)
* LIB 1010 Information Literacy (1)
* American Institutions GE course (3)
* Life Sciences GE course (3 – 5)
* Physical Sciences GE course (3 – 5)
* Laboratory Science GE course (0 – 1)
* Fine Arts GE course (3)
* Literature/Humanities GE course (3)
* Social & Behavioral Sciences GE course (3)
* Exploration GE course (3 – 5)
* Two (2) Global & Cultural Perspectives GE courses (0 – 6)

**Core Discipline Requirements**
Complete the following:

* CS 1400 Fundamentals of Programming
* CS 1410 Object-Oriented Programming
* CS 2420 Intro to Algorithms and Data Structures
* CS 2450 Software Engineering
* CS 3005 Programming in C++ (1)
* CS 3500 Application Development
* IT 1100 Introduction to Operating Systems
* IT 2400 Introduction to Networking
* IT 3100 Systems Design and Administration I
* IT 3500 Electronic Commerce
* VT 1300 Communication Design
* VT 1400 Intro. to Internet Development
* VT 2500 Computer Illustration
* VT 2600 Creative Imaging
* VT 3000 Internet Publishing and Design
* VT 3100 Interactive Multimedia
* ENGL 3010 Writing in the Professions

Complete **one** of the following:

* MATH 1100 Business Calculus (3.0)
* MATH 1210 Calculus I (5.0)

Complete **one** of the following:

* CS 4600 Senior Project (3.0)
* IT 4600 Senior Project (3.0)
* VT 4600 Senior Project (3.0)

**Discipline Elective Requirements**

Complete **21 credits** from the following:

* CS 2810 Computer Organization and Architecture (3.0)
* CS 3400 Operating Systems (3.0)
* CS 3410 Distributed Systems (3.0)
* CS 3600 Graphics Programming (3.0)
* CS 4000 Dynamic Web Development (3.0)
* CS 4010 Interactive Web Development (3.0)
* CS 4100 Advanced Multimedia/Internet Integration (3.0)
* CS 4300 Artificial Intelligence (3.0)
* CS 4550 Compilers (3.0)
* IT 3110 Systems Design and Administration II (3.0)
* IT 3200 Perl Programming (3.0)
* IT 3550 Internet / E-Commerce Marketing (3.0)
* IT 4200 Advanced Web Delivery (3.0)
* IT 4300 Database Design and Management (3.0)
* IT 4400 Network Design and Management (3.0)
* IT 4500 Information Security (3.0)
* MKTG3010 Marketing Principles (3.0)
* VT 2700 Typography (3.0)
* VT 3710 Advanced Typography (3.0)
* VT 3200 Portfolio Preparation (3.0)
* VT 3300 Introduction to Digital Video Editing (3.0)
* VT 3600 3-D Visualization (3.0)
* VT 3750 Graphic Design History (3.0)
* VT 3780 Prepress & Print Production (3.0)
* VT 3800 Corporate Identity (3.0)
* VT 4000 Dynamic Web Development (3.0)
* VT 4010 Interactive Web Development (3.0)
* VT 4100 Advanced Multimedia / Internet Integration (3.0)
* VT 4700 Publication Design (3.0)
* VT 4750 Package Design (3.0)

**NOTE:** Multiple-listed courses may only be used once to fill elective requirements. Multiple-listed courses are CS/VT 4000, CS/VT 4010, CS/VT 4100.

**Graduation Requirements**

1. Complete a minimum of 120 college-level credits (1000 and above).
2. Complete at least 40 upper-division credits (3000 and above).
3. Complete at least 30 upper-division credits at DSC for institutional residency.
4. Cumulative GPA 2.5 or higher.
5. Grade C- or higher in each Core Discipline and Elective Requirement course.