B.S. Information Technology Requirements

The major in Information Technology allows students to build a knowledge base for application support in any industry, from healthcare to sports, from retail to government. No organization can function without employees who have the skills and credentials of an IT professional. You can become one of those most sought-after experts by building a foundation of knowledge in the three key areas: networking, security and databases.

Note that all students must achieve 120 undergraduate credits and a minimum 2.0 overall GPA to graduate. The GPA requirement for major courses for Information Technology is a minimum of 2.25.

Required Information Technology Core Courses – 39 credits
CPSC 122 Client-Side Web Development (3 credits)
CPSC 125 Discrete Math for CS I (3 credits)
CPSC 123 Intro to Scientific Programming (3 credits) *or* CPSC 135: Comp Sci I (3 credits)
CPSC 150 Ethical, Legal, and Professional Impacts of the Digital Age (3 credits)
CPSC 223 Advanced Scientific Programming (3 credits) *or* CPSC 242 Server-Side Web Development (3 credits)
CPSC 252 Unix Scripting and Administration (3 credits)
CPSC 253 IT Systems (3 credits)
CPSC 273 Computing Systems Integration (3 credits)
CPSC 311 Computer Networks (3 credits)
CPSC 341 Information Security (3 credits)
CPSC 354 Software Engineering I (3 credits)
CPSC 355 Software Engineering II (3 credits)
CPSC 356 Intro to Database Systems (3 credits)

Information Technology Electives – 18 credits
18 credits of additional CPSC courses, numbered 136 or above and not previously used for above requirements. CPSC 280 and CPSC 380 cannot be used here.

Other Required Courses – 3 credits
MATH 105 College Algebra *or higher* (3 credits)

Directed General Education Courses – 3 credits
The following courses are required to fulfill the Information Technology requirements and are suggested to satisfy General Education.
MATH 140 Applied Statistics *or* MATH 150 Intro Bio Stats – Category C2 (3 credits)

University Elective Courses – 15 to 18 credits
Note 1: Courses below CPSC 122, CPSC 280, and CPSC 380 do not count toward the major requirements for a BS in Information Technology; they count in university electives only.
Note 2: Internships are optional for program requirements, but highly recommended. These courses, CPSC 280 and CPSC 380, only count in university electives.

Program Plan Code: BS_ITEC
Effective Date: Fall 2024

B.S. Information Technology Checksheet

Student Name: Student ID Number:

This checksheet provides a mechanism for students and advisors to keep track of a student's progress in the program. Please refer to the program requirements for more details regarding options.

Note that all students must achieve 120 undergraduate credits and a minimum 2.0 overall GPA to graduate. The final major-GPA requirement for Information Technology is 2.25.

Required Information Technology Core Courses – 39 credits

CPSC 122 Client-Side Web Development	3 credits	Grade:
CPSC 125 Discrete Math for CS I	3 credits	Grade:
CPSC 123 Intro to Scientific Programming *or* CPSC 135 Comp Sci I	3 credits	Grade:
CPSC 150 Ethical, Legal, and Professional Impacts of the Digital Age	3 credits	Grade:
CPSC 223 Advanced Scientific Programming *or* CPSC 242 Server-Side Web Development	3 credits	Grade:
CPSC 252 Unix Scripting and Administration	3 credits	Grade:
CPSC 253 IT Systems	3 credits	Grade:
CPSC 273 Computing Systems Integration	3 credits	Grade:
CPSC 311 Computer Networks	3 credits	Grade:
CPSC 341 Information Security	3 credits	Grade:
CPSC 354 Software Engineering I	3 credits	Grade:
CPSC 355 Software Engineering II	3 credits	Grade:
CPSC 356 Intro to Database Systems	3 credits	Grade:
Total Credits	39 total credits	

Information Technology Major Electives – 18 credits
18 credits of additional CPSC courses, numbered 136 or above and not previously used for above requirements, excluding CPSC 280 and CPSC 380.

Course 1:	credits	Grade:
Course 2:	credits	Grade:
Course 3:	credits	Grade:
Course 4:	credits	Grade:
Course 5:	credits	Grade:
Course 6:	credits	Grade:
Total Credits	18 total credits	

Other Required Course – 3 credits

MATH 105 College Algebra *or* higher	3 credits	Grade:
Total Credits	3 total credits	

Directed General Education Course
The following course is required to fulfill the Information Technology requirements and is suggested to satisfy General Education.

MATH 140 Applied Stats *or* MATH 150 Intro to Biostats (Category C2)	3 credits	Grade:

University Elective Courses – 15 to 18 credits

Course 1:		credits	Grade:
Course 2:		credits	Grade:
Course 3:		credits	Grade:
Course 4:		credits	Grade:
Course 5:		credits	Grade:
Course 6:		credits	Grade:
Total Credits		15-18 total credits	

Notes
Courses below CPSC 122, CPSC 280, and CPSC 380 do not count toward the major requirements for a BS in Information Technology; they count in university electives only.
Internships are optional for program requirements, but highly recommended. These courses, CPSC280 and CPSC380, only count in university electives.

Summary of Graduation Requirements

Total credits from major courses	**60**
Total credits general education program	**42-45**
Total credits university electives	**15-18**
Minimum total credits to graduate	**120**
Minimum overall GPA	**2.0**
Minimum GPA in major program	**2.25**
Comprehensive Exam (CPSC 355)	**PASS**

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B.S. Information Technology 8-Semester Planner

Student Name: Student ID Number:

Each semester listed below provides information including course categories, typical credit hours (CH.), and space to add specific course selections. This planner is only a suggested path. Consult with your program advisor regarding your unique plans and interests as you make choices about your schedule.

First Semester Plan

Major	CPSC 122	3 CH.	Selection:
Major	CPSC 150	3 CH.	Selection:
Major	MATH 105 *or higher*	3 CH.	Selection:
Gen Ed	FYSM 100	3 CH.	Selection: FYSM 100
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Total		**15 CH.**	

Second Semester Plan

Major	CPSC 123 *or* CPSC 135 (*CPSC 123 recommended*)	3 CH.	Selection:
Major	CPSC 125	3 CH.	Selection:
Major	CPSC 252	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Total		**15 CH.**	

Third Semester Plan

Major	CPSC 223 *or* CPSC 242	3 CH.	Selection:
Major	CPSC 253 IT Systems	3 CH.	Selection:
Gen Ed	MATH 140 *or* MATH 150 (C2)	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Total		**15 CH.**	

Fourth Semester Plan

Major	CPSC 273	3 CH.	Selection:
Major	CPSC Elective	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Elective	University Elective	3 CH.	Selection:
Total		**15 CH.**	

Fifth Semester Plan

Major	CPSC 311	3 CH.	Selection:
Major	CPSC 341	3 CH.	Selection:
Major	CPSC Elective	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Elective	University Elective	3 CH.	Selection:
Total		**15 CH.**	

Sixth Semester Plan

Major	CPSC 356	3 CH.	Selection:
Major	CPSC Elective	3 CH.	Selection:
Major	CPSC Elective	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Elective	University Elective	3 CH.	Selection:
Total		**15 CH.**	

Seventh Semester Plan

Major	CPSC 354	3 CH.	Selection:
Major	CPSC Elective	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Elective	University Elective	3 CH.	Selection:
Total		**15 CH.**	

Eighth Semester Plan

Major	CPSC 355	3 CH.	Selection:
Major	CPSC Elective	3 CH.	Selection:
Gen Ed	Gen. Ed. Elective	3 CH.	Selection:
Elective	University Elective	3 CH.	Selection:
Elective	University Elective	3 CH.	Selection:
Total		**15 CH.**	

Additional Notes:

1. Courses below CPSC 122, CPSC 280, and CPSC 380 do not count toward the major requirements for a BS in Information Technology; they count in University Electives only.
2. Internships are optional for program requirements, but highly recommended. These courses, CPSC 280 and CPSC 380, only count in University Electives.

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