COMPUTER INFORMATION TECHNOLOGY MAJOR: ENTREPRENEURSHIP AND INNOVATION OPTION (B.S.)

https://cps.unh.edu/online/program/bs/computer-information-technology-entrepreneurship-innovation-option

Description

The major in Computer Information Technology focuses on information, its management and processing within an organization, and the application of technology to create, exchange, store, and use information in that context. The focus is on the business use of information and the application of computing technology. Graduates will typically follow career paths as applications development programmers, planners and designers of information systems, and information systems managers within organizations. The degree provides versatility through a best practices approach to the core areas of Information Technology.

Requirements

Degree Requirements

Minimum Credit Requirement: 120 credits

Minimum Residency Requirement: 30 credits must be taken at UNH

Minimum Cumulative GPA: 2.0 is required for conferral*

Core Curriculum Required: General Education Program

Major, Option and Elective Requirements as indicated.

GPA: Major and any state certification GPA requirements may be higher and are indicated in program details.

A minimum grade of C- is required in all Major coursework. Students are allowed a maximum of two course overlaps. Overlaps can be used between Major, Minor, and General Education requirements with only one overlap being utilized between the Major and Minor. Please note that Option requirements are considered part of the Major. Students must complete 16 upper-level credits in majors within the College of Professional Studies, Online.

General Education Program Requirements

A minimum grade of D- is required in all General Education coursework. Students are allowed a maximum of two course overlaps. Overlaps can be used between Major, Minor and General Education requirements with only one overlap being utilized between the Major and Minor.

All General Education requirements, including CRIT 602 Advanced Critical Analysis and Strategic Thinking and IDIS 601 Interdisciplinary Seminar, must be taken prior to the capstone.

Code	Title	Credits
ENG 420	The Writing Process	4
COM 460	Interpersonal Communication and Group Dynamics	4
COM 480	Visual Communication	4
CRIT 501	Introduction to Critical Inquiry	4
Select one of the following:		4
MTH 402	Math for Our World	
MTH 504	Statistics	
MTH 510	Pre-Calculus	
Knowledge of Human Behavior & Social Systems		4
Knowledge of the Physical & Natural World		4
Knowledge of Human Thought & Expression		4
CRIT 602	Advanced Critical Analysis and Strategic Thinking	4
IDIS 601	Interdisciplinary Seminar	4
Total Credits		**40**

Writing Program Requirements

All bachelor's degree candidates are required to complete four writing intensive courses as part of the University Writing Program Requirements as follows:

Code	Title	Credits
ENG 420	The Writing Process	
One Writing Intensive course in the Major		
One Writing Intensive course at the 600-level or above		
One Additional Writing Intensive Course		

Writing Intensive courses are identified with the label "Writing Intensive Course" in the "Attributes" section of the course description and/or a W following the course number.

Major Requirements

Prior to capstone enrollment, students are expected to complete the majority of their required major courses along with CRIT 602 Advanced Critical Analysis and Strategic Thinking and IDIS 601 Interdisciplinary Seminar. Students should consult with their advisor regarding specific major courses that may be completed with their capstone. Academic Advisor approval is required for registration to be processed.

Code	Title	Credits
Major in Computer Information Technology		
Foundation Courses		
CMPL 415	Programming Fundamentals	4
CMPL 512	Advanced Software Tools	4
CMPL 525	Foundations of Cybersecurity	4
Intermediate Courses		
CMPL 614	Computer and Network Systems	4
CMPL 622	Human Computer Interaction	4
MTH 504	Statistics	4
Advanced Courses		
CMPL 620	Virtualization and Cloud Computing	4
CMPL 641	Database Management Systems	4
CMPL 642	Systems Analysis and Design	4
Option in Entrepreneurship and Innovation		
ENT 500	The Entrepreneurial Mindset	4
ENT 600	Launching and Managing Entrepreneurial Ventures	4
ENT 611	Entrepreneurial Marketing	4
ENT 703	Entrepreneurial Finance	4
ENT 707	Legalities and Ethics of Entrepreneurship	4
Integrative Capstone		
CMPL 795	Integrative Capstone: Internship in Computer Information Tech and Tech Management	4
or CMPL 797	Integrative Capstone: Best Practices in Information Technology	
Total Credits		**60**

Electives

Open electives are courses students will need to take in addition to their general education and major requirements in order to satisfy the remaining credit totals for their programs. Open electives are defined as

any credit course offered by the College not already included in the student's general education, major, option or minor. Students will need 120 credits total to graduate with a bachelor's degree from the Online Division of the College of Professional Studies.

Degree Plan

This degree plan is a sample and does not reflect the impact of transfer credit or current course offerings. UNH CPS Online undergraduate students should develop individual academic plans with their academic advisor during their first year at UNH.

Sample Course Sequence

First Year

Fall

		Credits
CMPL 415	Programming Fundamentals	4
CMPL 525	Foundations of Cybersecurity	4
ENG 420	The Writing Process	4
General Education Course		4
	Credits	**16**

Spring

CMPL 512	Advanced Software Tools	4
COM 460	Interpersonal Communication and Group Dynamics	4
CRIT 501	Introduction to Critical Inquiry	4
MTH 402 or MTH 504 or MTH 510	Math for Our World or Statistics or Pre-Calculus	4
	Credits	**16**

Second Year

Fall

CMPL 614	Computer and Network Systems	4
COM 480	Visual Communication	4
General Education Course		4
Elective		4
	Credits	**16**

Spring

CMPL 622	Human Computer Interaction	4
MTH 504	Statistics	4
General Education Course		4
Elective		4
	Credits	**16**

Third Year

Fall

CMPL 620	Virtualization and Cloud Computing	4
ENT 500	The Entrepreneurial Mindset	4
ENT 600	Launching and Managing Entrepreneurial Ventures	4
Elective		4
	Credits	**16**

Spring

CMPL 641	Database Management Systems	4
CRIT 602	Advanced Critical Analysis and Strategic Thinking	4

ENT 611	Entrepreneurial Marketing	4
ENT 703	Entrepreneurial Finance	4
	Credits	**16**

Fourth Year

Fall

CMPL 642	Systems Analysis and Design	4
ENT 707	Legalities and Ethics of Entrepreneurship	4
IDIS 601	Interdisciplinary Seminar	4
Elective		4
	Credits	**16**

Spring

CMPL 797 or CMPL 795	Integrative Capstone: Best Practices in Information Technology or Integrative Capstone: Internship in Computer Information Tech and Tech Management	4
Elective		4
	Credits	**8**
	Total Credits	**120**

Student Learning Outcomes

- Possess proficiency in information technology, including programming fundamentals, software, network systems, and databases, as well as their relevant web interfaces and applications.
- Demonstrate both practical skills and theoretical knowledge of information technology, enabling graduates to make a professional contribution to organizations across sectors.
- Engage in effective critical thinking and problem-solving in the field of information technology.
- Assess the needs of technology users and articulate appropriate strategies for meeting those needs through hardware and software.