IT Infrastructure (ITI) Certificate Planning Chart

College of Continuing & Professional Studies

University of Minnesota

Undergraduate;	minimum	14	semester	credits

Name:	U of M ID #:	Date:	

This planning guide can help you prepare your course of study. See course descriptions and schedules at http://onestop.umn.edu. Call 612-624-4000 with your questions.

Data Mana	gement (14 credits)	Prerequisite(s)*	Credits	Grade	Term
INET 4051	IT Infrastructure Operations (3 cr)	CSCI 4211 or instr permission			
INET 4707	Introduction to Databases (4 cr)	CSCI 4061 or instr permission			
INET 4709	Data Management I: Fundamentals (3 cr)	CSCI 4061 and CSCI 4707 or instr permission			
INET 4711	Data Management II: Distributed Systems (4 cr)				
Data Scien	ce (14 credits)	Prerequisite(s)*	Credits	Grade	Term
INET 4051	IT Infrastructure Operations (3 cr)	CSCI 4211 or instr permission			
INET 4707	Introduction to Databases (4 cr)	CSCI 4061 or instr permission			
INET 4061	Data Science I: Fundamentals (3 cr)	INET 4707, CSCI 4707 or instr permission			
INET 4710	Data Science II: Big Data Analytics (4 cr)	INET4031 and INET 4707, or instr permission			
DevOps (14	4 credits)	Prerequisite(s)*	Credits	Grade	Term
CSCI 4211	Introduction to Computer Networks (3 cr)	CSCI 2021 or instr permission			
INET 4051	IT Infrastructure Operations (3 cr)	CSCI 4211 or instr permission			
INET 4021	DevOps I: Networking Programming (4 cr)	CSCI 4211 or instr permission			
INET 4121	DevOps II: Development Strategies (4 cr)	CSCI 4061, operating systems, and Python, or instr permission			
Networkin	g (14 Credits)	Prerequisite(s)*	Credits	Grade	Term
CSCI 4211	Introduction to Computer Networks (3 cr)	CSCI 2021 or instr permission			
INET 4051	IT Infrastructure Operations (3 cr)	CSCI 4211 or instr permission			
INET 4011	Networking I: Network Administration (4 cr)	CSCI 4211 or instr permission			
INET 4041	Networking II: Emerging Technologies (4 cr)	CSCI 4211 or instr permission			
Security (14 credits)		Prerequisite(s)*	Credits	Grade	Term
INET 4051	IT Infrastructure Operations (3 cr)	CSCI 4211 or instr permission			
INET 4153	Introduction to Security: Policy and Regulations (4 cr)	45 credits and exp w/Windows			
INET 4165	Security I: Principles (3 cr)	CSCI 4061, operating systems, or instr permission			
INET 4007	Security II: Cloud Security (4 cr)				

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Systems (14 credits)		Prerequisite(s)*	Credits	Grade	Term
INET 4051 IT Infrastructure Operations (3 cr)		CSCI 4211 or instr permission			
INET 4031	Introduction to Systems (4 cr)	CSCI 4061 or instr permission			
INET 4032 Systems I: Storage (4 cr)		Knowledge of operating systems			
INET 4083W Systems II: System Analysis and Design (3 cr)					
Self-Designe	ed	Prerequisite(s)*	Credits	Grade	Term
Students may design their own 14-credit area of emphasis program. CCAPS departmental/adviser approval required.					
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Certificate Requirements:

- ✓ Prerequisite coursework: Your academic background and professional experience will be reviewed holistically to determine if you will need any of the following courses before taking core courses: MATH 1271 Calculus; CSCI 1103 Java or CSCI 1113 C/C++ Programming or CSCI 1133 Computing and Programming Concepts; CSCI 1913 Algorithms, Data Structures, and Program Development or CSCI 1933 Algorithms and Data Structures; CSCI 2021 Machine Architecture and Organization; CSCI 4061 Operating Systems; CSCI 4211 Computer Networks; INET 3101 C Programming: Language and Applications.
- ✓ You may enroll in courses before being admitted to the certificate (45 credits required for admission). For admission details, see https://ccaps.umn.edu/information-technology-infrastructure-credit-certificate#admission.
- ✓ All courses in the certificate must be taken for a letter grade (A-F grading basis), and must be completed with a grade of C- or better. The cumulative GPA for all certificate courses must be 2.00 or higher.
- You can apply up to 40% of transferable, department-approved coursework from other educational institutions toward the certificate.
- ✓ Certificate coursework must be completed within four years of admission to the certificate.

/	To be awarded a certificate,	vou must submit the	Application for	Degree, http	o://onestop.umn.e	edu/onestop	/graduating.	html
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Evaluated by:	Date:
Updates to Planning Chart (name and date):	