Certificate Pathway

Certificate in Internet and Information Technology – Catalog Year 2023-24

The number of credits you take each year will determine when you graduate. To graduate on time, you are strongly encouraged to enroll in at least 30 credits toward your certificate during the calendar year, including fall and spring semesters and winter and summer sessions. Additional certificate pathways are available for students who must complete developmental English. Please see the certificate website or your advisor for more information.

Courses in **Bold Text** are prerequisites for later courses or only offered in the Fall or Spring semester and should be taken where indicated in the sequence.

Fall Semester #1

Courses	Credits	Prerequisites and Corequisites[1]
ENGL-101 English Composition I (Required Core 1A - English Composition)	3	Prerequisite: Complete developmental requirements in English
MA-321 Mathematics in Contemporary Society (or higher) (Required Core 1B - Mathematical & Quantitative Reasoning)	3	Prerequisite: Complete developmental requirements in math
ET-704 Networking Fundamentals I	4	None
ET-710 Front-End UI/UX Web Development	3	None
ET-712 Web Client Programming: JavaScript	3	None
Total credits for the term	16	

Spring Semester #1

Courses	Credits	Prerequisites and Corequisites[1]
ET-504 Operating Systems and System Deployment	2	None
ET-575 Introduction to C++ Programming Design & Implementation	3	Prerequisite: ET-502 or ET-574 OR Corequisite: MA-440 or department permission
Major Electives – select 6 credits for the table below	6	Check individual courses for prerequisites and corequisites
One History or Social Science course from Flexible Core 2A, 2B, 2D, or 2E: (HIST, ANTH, CRIM 101 or 205), ECON, PLSC, PSYC, or SOCY)	3	Check individual courses for prerequisites and corequisites
Total credits for the term	14	

Notes:

1. Prerequisites for a course must be passed before taking the course. Corequisites must be passed before taking the course or taken in the same term as the course.

Major Elective Courses – Complete a total of 6 credits from the list below

Major Elective Courses	Credits	Prerequisites and Corequisites
ARTS-192 Digital Animation	4	Corequisite: ARTS291
ET-375 Introduction to Robotics	4	Prereq: ET-110 and either ET-510 or ET-540 or permission
ET-481 Personal Computer Technology, Architecture & Troubleshooting	2	Prerequisite: ET-501 or ET-504 or permission of the Department
ET-570 Creating Smartphone Apps	3	None
ET-714 Web Technologies II: Building Database-Driven Web Sites	4	Prerequisite: ET-710
ET-716 Java Programming Technology	4	Prerequisite: ET-712 and ET-710
ET-718 Database Technology	3	Prerequisite: ET-710
ET-720 Advanced Web and Multimedia Programming	1	Prerequisite: ET-710
ET-725 Computer Network Security	3	Corequisite: ET-704