Certificate Pathway

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

This course sequence is designed for students who are placed into developmental English or Mathematics. The plan allows for completing the certificate in 1 year using the summer term and the Accelerated Learning Program (ALP). Students following this plan will prepare for college-level work by taking corequisite developmental courses (MA-321 ALP and ENGL-99) along with MA-321 and ENGL-101. Students must see their advisor to register for the ALP sections of those courses. 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 (ALP section) (Required Core 1A - English Composition)	3	Pre/corequisite: Must satisfy developmental requirement in English or be co-enrolled in BE-102
ENGL-99 Developing Competence in College Reading, Writing, & Study Skills	0 (4 eq.)	Corequisite: ENGL-101
MA-321 Mathematics in Contemporary Society (Required Core 1B - Mathematical & Quantitative Reasoning)	3	Pre/corequisite: Must satisfy developmental requirement in Math or be co-enrolled in MA-321 ALP
MA-321 ALP Mathematics in Contemporary Society	0 (2 eq.)	Corequisite: MA-321
ET-710 Front-End UI/UX Web Development	3	None
Total credits for the term	**9 + 6 eq.**	

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
ET-704 Networking Fundamentals I	4	None
ET-712 Web Client Programming: JavaScript	3	None
Major Electives – select 2-4 credits for the table below	2-4	Check individual courses for prerequisites and corequisites
Total credits for the term	**14-16**	

Summer Session

Courses	Credits	Prerequisites and Corequisites[1]
Major Electives – select 2-4 credits for the table below	2-4	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 session	**5-7**	

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