

## Certificate Pathway

### Certificate in Internet and Information Technology – Catalog Year 2022-23

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

<b>Courses</b>	<b>Credits</b>	<b>Prerequisites and Corequisites<sup>1</sup></b>
<b>ENGL-101 English Composition I (ALP section)</b> (Required Core 1A - English Composition)	3	Pre/corequisite: Must satisfy developmental requirement in English or be co-enrolled in BE-102
<b>ENGL-99 Developing Competence in College Reading, Writing, &amp; Study Skills</b>	0 (4 eq.)	Corequisite: ENGL-101
<b>MA-321 Mathematics in Contemporary Society</b> (Required Core 1B - Mathematical & Quantitative Reasoning)	3	Pre/corequisite: Must satisfy developmental requirement in Math or be co-enrolled in MA-321 ALP
<b>MA-321 ALP Mathematics in Contemporary Society</b>	0 (2 eq.)	Corequisite: MA-321
<b>ET-710 Web Technology I: Building and Maintaining Web Sites</b>	3	None
<b>Total credits for the term</b>	<b>9 + 6 eq.</b>	

#### Spring Semester #1

<b>Courses</b>	<b>Credits</b>	<b>Prerequisites and Corequisites<sup>1</sup></b>
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
<b>ET-704 Networking Fundamentals I</b>	4	None
<b>ET-712 Web Client Programming: JavaScript</b>	3	None
Major Electives – select 2-4 credits for the table below	2-4	Check individual courses for prerequisites and corequisites
<b>Total credits for the term</b>	<b>14-16</b>	

### Summer Session

Courses	Credits	Prerequisites and Corequisites <sup>1</sup>
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
<b>Total credits for the session</b>	<b>5-7</b>	

#### 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	Prerequisite: ET-110 and either ET-510 or ET-540 or permission of the Department
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
ET 728 - Web Technology: XML	4	Prerequisite: ET-714 OR ET-718; Corequisite: ET-712