

Certificate in Internet and Information Technology - Catalog Year 2019-20

One Year Certificate Pathway for Students Required to Complete Developmental Math or English

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 through the use of 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 BE-102, BE-112, or BE-122) along with ENGL-101 and MA-321. Students must see their advisor to register for the ALP sections of those courses. A 3-semester plan is also available for students who prefer to take traditional, full semester developmental courses prior to ENGL-101. Please see the certificate webpage or your advisor for more information.

Courses in **Bold Text** are prerequisites for later courses 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	Corequisite: Must be enrolled in an ALP section of BE-102, BE-112, or BE-122
BE-102, BE-112, or BE-122 (ALP section)	0 (4 eq.)	Corequisite: Must be enrolled in an ALP section of ENGL-101
MA-321 Mathematics in Contemporary Society	3	Corequisite for MA-321: Must be enrolled in MA-321 ALP
MA-321 ALP Mathematics in Contemporary Society	0 (2 eq.)	Corequisite for MA-321 ALP: Must be enrolled in MA-321
ET-710 Web Technology I: Building and Maintaining Web Sites²	3	None
Total credits for the term	9 + 6 eq.	

Spring Semester #1

Courses	Credits	Prerequisites and Corequisites ¹
ET-704 Network Fundamentals I ²	4	None
ET-712 Web Client Programming: JavaScript	3	None
ET-504 Operating Systems and System Deployment ²	2	None
ET575 Introduction to C++ Programming Design & Implementation	3	Prerequisite: MA-321 or co-requisite: MA-114, MA-119 or MA-440
Electives: Select six credits from the following courses: ET-375 Introduction to Robotics (4), ET-481 Personal Computer Technology, Architecture and Troubleshooting (2), ET-570 Creating Smartphone Apps (3) ET-714 Web Technologies II (4), ET-716 Java Programming Technology (4),	2-4	ET 375 – Pre-req. ET 110 & ET 510 or 540; or dept. permission ET-481 – Pre-req.: ET 501 or 504; or dept. permission ET-570 – None ET-714 – Pre-req.: ET 710 ET-716 – Pre-req.: ET 710 and 712 ET-718 – Pre-req.: ET 710

ET-718 Database Technology (3), ET-720 Advanced Web and Multimedia Programming Applications (1), ET-725 Computer Network Security, ET-728 Web technology XML (3)		ET-720 – Pre-req.: ET 710 ET-725 – Pre-req.: ET 704 or dept. permission ET-728 – Pre-req.: ET 714 or 718; co-req.: ET 712
Total credits for the term	14-16	

Summer Semester - Eligible students may apply for a STEM Tuition Waiver to help with the summer term tuition

Courses	Credits	Prerequisites and Corequisites¹
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 course pre- and co-requisites
Electives: Select six credits from the following courses: ET-375 Introduction to Robotics (4), ET-481 Personal Computer Technology, Architecture and Troubleshooting (2), ET-570 Creating Smartphone Apps (3) ET-714 Web Technologies II (4), ET-716 Java Programming Technology (4), ET-718 Database Technology (3), ET-720 Advanced Web and Multimedia Programming Applications (1), ET-725 Computer Network Security, ET-728 Web technology XML (3)	2-4	ET 375 – Pre-req. ET 110 & ET 510 or 540; or dept. permission ET-481 – Pre-req.: ET 501 or 504; or dept. permission ET-570 – None ET-714 – Pre-req.: ET 710 ET-716 – Pre-req.: ET 710 and 712 ET-718 – Pre-req.: ET 710 ET-720 – Pre-req.: ET 710 ET-725 – Pre-req.: ET 704 or dept. permission ET-728 – Pre-req.: ET 714 or 718; co-req.: ET 712
Total credits for the term	5-7	
Total credits required for the Certificate in Internet and Information Technology	30	

¹ Based on Math placement, students may take MA-114, MA-119, MA-440 or MA-441 in place of MA-321

² Students intending to continue their studies in an Associate degree program are advised to take a total of two Writing Intensive sections of ET-504, ET-704 or ET-710

Note: 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.