

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

### One Year Certificate Pathway for Students Ready for College Level Math and English

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 and should be taken where indicated in the sequence.

#### Fall Semester #1

Courses	Credits	Prerequisites and Corequisites <sup>1</sup>
ENGL-101 English Composition I (Required Core 1.A. – English Composition)	3	Prerequisite: BE-112/205 and 122/226, placement, or exemption
<b>MA-321 Mathematics in Contemporary Society</b> or above <sup>1</sup> (Required Core 1.B. Mathematical and Quantitative Reasoning)	3	Prerequisite: MA 10, MA-10ALP, MA-71, placement or exemption
ET-704 Network Fundamentals I <sup>2</sup>	4	None
<b>ET-710 Web Technology I: Building and Maintaining Web Sites<sup>2</sup></b>	3	None
<b>ET-712 Web Client Programming: JavaScript</b>	3	None
<b>Total credits for the term</b>	<b>16</b>	

#### Spring Semester #1

Courses	Credits	Prerequisites and Corequisites <sup>1</sup>
ET-504 Operating Systems and System Deployment <sup>2</sup>	2	None
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
ET575 Introduction to C++ Programming Design & Implementation	3	Prerequisite: MA-321 or co-requisite: MA-114, MA-119 or MA-440
<b>Electives:</b> 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),	6	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 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
<b>Total credits for the term</b>	<b>14</b>	
<b>Total credits required for the Certificate in Internet and Information Technology</b>	<b>30</b>	

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

<sup>2</sup>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.