Degree Pathway

A.A.S. in Internet and Information Technology – for Catalog Years 2022-23 and earlier

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 degree during the calendar year, including fall and spring semesters and winter and summer sessions. This Degree Pathway is designed for students who place into ENGL-101 and MA-321. An additional pathway is available for students who must complete developmental math or English. Please see the degree 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-574 Programming and Applications with Python	3	None
ET-710 Web Technology I: Building and Maintaining Web Sites	3	None
Flexible Core 2A, 2B, 2C, or 2D – Select one humanities course	3	Check individual courses for prerequisites and corequisites
Total credits for the term	**15**	

Spring Semester #1

Courses	Credits	Prerequisites and Corequisites[1]
ENGL-102 English Composition II (Required Core 1A - English Composition)	3	Prerequisite: ENGL-101 or placement
ET-504 Operating Systems and System Deployment	2	None
ET-704 Networking Fundamentals I	4	None
ET-712 Web Client Programming: JavaScript	3	Prerequisite: ET-710
ET-713 Full Stack Web Development (formerly ET-718 Database Technology)	3	Prerequisite: ET-710
Total credits for the term	**15**	

Fall Semester #2

Courses	Credits	Prerequisites and Corequisites[1]
ET-720 Advanced Web & Multimedia Programming Applications	1	Prerequisite: ET-710
ET-716 Java Programming Technology (fall only)	4	Prerequisites: ET-710 and ET-712
ET-705 Networking Fundamentals II	4	Prerequisite: ET-704
ET 725 Computer Network Security	3	Prerequisite: ET 704 or permission of the department
Major Elective: Select from list below	3	Check individual courses for prerequisites and corequisites
Total credits for the term	**15**	

Spring Semester #2

Courses	Credits	Prerequisites and Corequisites[1]
Major Elective: Select from list below	3	Check individual courses for prerequisites and corequisites
Major Elective: Select from list below	2	Check individual courses for prerequisites and corequisites
One History or Social Science course from Flexible Core 2A, 2B, 2D, or 2E – (HIST-100 series, ANTH, CRIM-101 or 102, ECON, PLSC, PSYC, or SOCY)[3] ECON-101 and ECON-102 are highly recommended.	3	Check individual courses for prerequisites and corequisites
One History or Social Science course from Flexible Core 2A, 2B, 2D, or 2E – (HIST-100 series, ANTH, CRIM-101 or 102, ECON, PLSC, PSYC, or SOCY)[3] ECON-101 and ECON-102 are highly recommended.	3	Check individual courses for prerequisites and corequisites
One course from Required Core 1C: Life & Physical Sciences	3-4	Check individual courses for prerequisites and corequisites
Science Laboratory course[3]	0-1	Corequisite: 3-credit Science course in Required Core 1C
Total credits for the term	**15**	
Total credits required for the A.A.S. degree	**60**	

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.

2. Students are required to take particular courses in some areas of the Common Core that fulfill both general education and major requirements. If students do not take the required courses in the Common Core, they will have to take additional credits to complete their degree requirements.

3. This course is not required for students who take a 4-credit STEM variant course in Required Core 1C.

All students must complete two (2) WI designated classes to fulfill degree requirements.

Major Elective Courses – courses in bold are strongly recommended

Major Elective Courses	Credits	Prerequisites and Corequisites
ET-232 Wireless Mobile Communications	3	Prerequisite: ET-704 or permission of the Department
ET-375 Introduction to Robotics	4	Prerequisite: ET-110 and either ET-510 or ET-540 or POD
ET-481 Personal Computer Technology, Architecture & Troubleshooting	2	Prerequisite: ET-501 or ET-504 or permission of the Department
ET-506 Linux Operating System	3	Corequisite: ET-704 or permission of the Department
ET-570 Creating Smartphone Apps	3	None
ET-575 Introduction to C++ Programming Design & Implementation	3	Prerequisite: MA-321 or corequisite: MA-114, MA-119 or MA-440
ET-580 Object-Oriented Programming	3	Prerequisite: ET-575 with a grade of C or better
ET-581 Object-Oriented Programming in Java	3	Prerequisite: ET-574 or ET-575 with a grade of C or better
ET-585 Computer Architecture	3	Prerequisite: ET-574 or ET-575
ET-714 Web Technologies II: Building Database-Driven Web Sites	4	Prerequisite: ET-710
ET-726 Advanced Network Security	3	Prerequisite: ET-725
ET-754 Security Policies and Procedures	3	None
ET 756 Database Administration	3	Corequisite: ET-574 or ET-575
ET-757 Cloud Technology Developing	3	Prerequisite: ET-718 or ET-713 or ET-756 or permission of the Department
ET-758 Cloud Technology Operations	3	Prerequisite: ET-757 or permission of the Department
ET-760 Ethical Hacking and Penetration Testing	3	Prerequisite: ET-725
ET-991 Cooperative Education	1	Permission of the Department
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