Internet and Information Technology– A.A.S. Degree Program Requirements (effective Fall 2023)

Common Core Requirement	Credits
REQUIRED CORE 1A: English Composition	
ENGL-101 English Composition I	3
ENGL-102 English Composition II	3
REQUIRED CORE 1B: Mathematics and Quantitative Reasoning[1]	
MA-114 College Algebra and Trigonometry for Technical Students or	3-4
MA-119 College Algebra	
REQUIRED CORE 1C: Life & Physical Sciences (select from 1C[2])	3-4
FLEXIBLE CORE 2A, 2B, 2D, or 2E: Social Science or History courses (2 courses)	6
Highly Recommended: ECON-101 Introduction to Macroeconomics or ECON-102 Introduction to Microeconomics	
FLEXIBLE CORE 2A, 2B, 2C, or 2D: Humanities elective	3
Highly recommended SP-214 or SP-217	
Subtotal	**21-23**
Major Requirements – Program Core	
ET-506 Linux Operating System	3
ET-574 Programming and Applications with Python	3
ET-704 Networking Fundamentals I	4
ET-710 Front-End UI/UX Web Development	3
ET-712 JavaScript Programming: Client and Server	3
ET-713 Full Stack Web Development	3
ET-721 Software Development Practicum	2
Subtotal	**21**
Major Requirements – Major Electives	
Choose 17 credits from:	3
ET-232 Wireless Mobile Communications	4
ET-375 Introduction to Robotics	2
ET-481[3] Personal Computer Technology, Architecture & Troubleshooting	2
ET-504 Operating Systems and System Deployment	3
ET-570 Creating Smartphone Apps	3
ET-575[4] Introduction to C++ Programming Design & Implementation	3
ET-580 Object-Oriented Programming	3
ET-581 Object-Oriented Programming in Java	3
ET-582 Data Structures	3
ET-585 Computer Architecture	4
ET-705[4] Networking Fundamentals II	4
ET-714[4] Web Technologies II: Building Database-Driven Web Sites	4
ET-716 Java Programming Technology	1
ET-720 Adv Web & Multimedia Programming Applications	3
ET-725[3] Computer Network Security	3
ET-726 Advanced Network Security	3
ET-754 Security Policies and Procedures	3
ET 756 Database Administration	3
ET-757[4] Cloud Technology Developing	3
ET-758 Cloud Technology Operations	3
ET-760 Ethical Hacking and Penetration Testing	1
ET-991 Cooperative Education	1
ET-992 Cooperative Education	3
TECH-931 Cooperative Education	3
TECH-932 Cooperative Education	3
Subtotal	**17**
Major Requirements – Additional Requirements	
Laboratory Science[5] BI-132, BI-171, CH-102, CH-111, CH-121, ET-842 or PH-112	0-1
Subtotal	**0-1**
Total	**60**

Notes:

1. Based on math placement, students may take MA-114, MA-119, MA-128, MA-440, MA-441 or MA-442.
2. Laboratory science elective required for students who do not take STEM Variant in Required Core 1C.
3. Elective highly recommended because these courses lead to industry certifications. ET-481 lead may to COMP-TIA A+ certification. ET-725 may lead to COMP-TIA Sec+ certification. The exams must be taken separately from the course.
4. Elective highly recommended.

All students must successfully complete two (2) writing-intensive classes (designated "WI") to fulfill degree requirements.