

**AWARD:** ASSOCIATE OF APPLIED SCIENCE DEGREE  
**MAJOR:** INFORMATION SYSTEMS TECHNOLOGY (299)

Possible occupations for graduates include computer operator, help desk support, computer programmer, programmer analyst, PC support technician, and network support technician.

The AAS degree program with a major in Information Systems Technology is designed for people who wish to be an Information Systems generalist with knowledge in various areas, such as microcomputer applications, programming, and networking support.

The Information Systems Technology program provides students with knowledge and skills needed to prepare for the Microsoft Office Specialist (MOS) Certification, CompTIA A+ Certification, CompTIA Network+ Certification, and CIW Foundations.

**PROGRAM REQUIREMENTS:** A student who studies topics in IT must possess general knowledge in systems analysis and design, software design and development, Web markup languages, Internet and network foundations and database fundamentals. Additionally, students must possess sound analytical and problem-solving skills, strong written and verbal communications skills and must have good interpersonal skills. These skills are an integral part of the information system technology (IST) curriculum. The curriculum includes technical courses in information technology, business-related areas, general education and electives. Instruction is centered on theoretical concepts and practical, hands-on applications key to success in the information technology field. Students are strongly encouraged to consult with their advisor in planning their programs and selecting electives. Upon satisfactory completion of the program the graduate will be awarded the associate of applied science degree with a major in information system technology.

**SPECIAL NOTE (BRIDGE COURSES):** This program is designed for those students who have completed a variety of keyboarding and introductory computer applications courses at the high school level. A student who has not completed the recommended high school courses may enroll in the IST program by taking courses designed to bridge the gap. These courses are to be selected by consulting with an IST advisor and may include ITE 115 – Introduction to Computer Applications Concepts (3 Cr.). AST 80 and/or AST 81 may be required to meet 30wpm minimum.

**CURRICULUM**

Course No.	Title	Credit(s)
<b>First Semester</b>		
ENG 111	College Composition I	3
ITD 110	Web Page Design I	3
ITD 130	Database Fundamentals	3
ITN 100	Introduction to Telecommunications	3
MTH 154	Quantitative Reasoning	3
SDV 101/100	Orientation to the IT Professions	1
	<b>Total</b>	<b>16</b>
<b>Second Semester</b>		
ENG 112	College Composition II	3
ITE 120	Principles of Information Systems	3
ITN 107	Personal Computer Hardware and Troubleshooting	3
ITP 100	Software Design	3
MTH 155	Statistical Reasoning	3
PED/HLT	Physical Education or Health	1
	<b>Total</b>	<b>16</b>
<b>Third Semester</b>		
ECO 201/202	Principles of Macro <u>OR</u> Principles of Microeconomics	3
ENG 115	Technical Writing <sup>1</sup>	3
	Approved IT Elective <sup>2</sup>	3
	Approved IT Elective <sup>2</sup>	3
	Approved IT Elective <sup>2</sup>	3
	Approved Social Science Elective <sup>3</sup>	3
	<b>Total</b>	<b>18</b>

**Fourth Semester**

	Approved IT Elective <sup>2</sup>	3
	Approved IT Elective <sup>2</sup>	3
	Approved IT Elective <sup>2</sup>	3
ITP 251	Systems Analysis and Design	4
	Approved Humanities Elective <sup>3</sup>	3
	<b>Total</b>	<b>16</b>
	<b>PROGRAM TOTAL</b>	<b>66</b>

<sup>1</sup> "Or CST 110" (applies to Cybersecurity and Computer Science degrees).

<sup>2</sup> Students are encouraged to satisfy the Approved IT Electives by completing one or more Career Studies Certificates (CSC). The following Career Studies Certificates are available: Cyber Security, Database Administration Specialist, Networking Specialist, Software Development, Information Technology Foundations and Web Design and Applications Development. See the list for specific courses within the CSCs in consultation with your advisor. Students must also formally complete an "Application for Graduation" for both the degree and applicable Career Studies Certificates upon graduation. Students pursuing the Bachelor of Applied Science degree at George Mason University are encouraged to take ITN 260 and ITN 266 to satisfy GMU's IT 223 requirement.

<sup>3</sup> Students may select from approved list of electives in catalog. Students pursuing the Bachelor of Applied Science degree at George Mason University are encouraged to take an approved HIS LFCC social science elective.