

## *Associate of Applied Science Degree in Information Systems Technology*

**AREA:** Information Systems Technology

**DEGREE:** Associate of Applied Science Degree

**LENGTH:** Four semesters (two-year) program

**PURPOSE:** The associate of applied science degree program (AAS) in (IST) is designed for students who seek employment or professional development as a generalist in the area of information technology (IT), with specific knowledge in various areas such as Web design/development, computer network design and administration and database administration. These specialized areas are gained by completing one or more career studies certificates which can be applied as the approved IT electives in the IST degree program.

**OCCUPATIONAL OBJECTIVES:** The associate of applied science degree curriculum in prepares students for employment with business, industry and government organizations as entry-level Web applications developers, network engineers or database administrators, depending on degree specialization.

**TRANSFER GUIDELINES:** Transfer opportunities for associate of applied science degrees, if existing, are very specific in nature. Students enrolling in an applied science degree with plans to transfer to a four-year college or university should explore opportunities with their advisor.

**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 one or more of the following:

AST 101	Keyboarding	3 credits
ITE 115	Intro to Computer Applications and Concepts	3 credits

Course#	Title	Credits
<b>First Semester</b>		
ENG 111	College Composition I	3
ITD 110	Web Page Design I	3
ITD 130	Database Fundamentals	3
ITN 101	Introduction to Network Concepts	3
MTH 151/152	Math for Liberal Arts (or MTH 163 or 271) <sup>1</sup>	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 106	Microcomputer Operating Systems	3
ITP 100	Software Design	3
MTH 151/152	Math for Liberals Arts (or MTH 271 or 272) <sup>1</sup>	3
	Approved Social Science Elective <sup>2</sup>	3
	<b>Total</b>	<b>18</b>
<b>Third Semester</b>		
ECO 201/202	Principles of Macro/Microeconomics	3
CST 100/110	Principles of Public Speaking/Intro to Speech Communication/ or ENG 115 Technical Writing <sup>3</sup>	3
	Approved IT Elective <sup>4</sup>	3
	Approved IT Elective <sup>4</sup>	3
	Approved IT Elective <sup>5</sup>	3
PED/HLT	Physical Education or Health	1
	<b>Total</b>	<b>16</b>
<b>Fourth Semester</b>		
	Approved IT Elective <sup>4</sup>	3
	Approved IT Elective <sup>4</sup>	3
	Approved IT Elective <sup>4</sup>	3
ITP 251	Systems Analysis and Design	4
	Approved Humanities Elective <sup>6</sup>	3
	<b>Total</b>	<b>16</b>
	<b>Program Total</b>	<b>66</b>

<sup>1</sup>Students planning to transfer to a four-year college are encouraged to take MTH 163 or MTH 271/272.

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<sup>2</sup>Students may select social science from approved list of electives on Page 41. *Students pursuing the Bachelor of Applied Science degree at George Mason University are encouraged to take HIS 112 as their LFCC social science elective.*

<sup>3</sup>*Students pursuing the Bachelor of Applied Science degree at George Mason University are encouraged to take CST 100 or CST 110 to satisfy the Oral Communications requirement at GMU. ENG 115 will satisfy the IST degree requirement for LFCC.*

<sup>4</sup>Students are encouraged to satisfy the Approved IT Electives by completing one or more Career Studies Certificates (CSC). Students are encouraged to select courses within the

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>5</sup>Suggested courses for this IT elective: ITD 112, ITD 132, ITN 107, ITP 112, ITP 120 or other IT course with advisor approval.

<sup>6</sup>Students may select humanities from approved list of electives on page 41.