

# INFORMATION SYSTEMS TECHNOLOGY

The A.A.S. degree program with a major in Information Systems Technology is designed for people who seek employment or professional development as a generalist in the area of information systems technology, with specific knowledge in various areas such as microcomputer applications, programming, and networking support.

In addition, this degree may allow the student to continue on to Old Dominion University, or Radford University for completion of courses needed for various baccalaureate degrees.

## Associate Degree Option(s)

### Information Systems Technology

---

**Award: Associate of Applied Science Degree**

**Major: Information Systems Technology**

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

The A.A.S. 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.

### Curriculum

---

Course No.	Title	Credits
<b>First Semester</b>		
ENG 111	College Composition I <sup>a</sup> or	3
ENG 137	Communication Processes <sup>a</sup>	(3)
BUS 100	Introduction to Business	3
MTH 103	Applied Technical Math I <sup>b</sup> or a higher level math	3
ITN 106	Microcomputer Operating Systems <sup>c</sup>	3
ITE 119	Information Literacy <sup>d</sup>	3
SDV	Student Development	<u>1</u>
		16
<b>Second Semester</b>		
BUS 270	Interpersonal Dynamics in the Business Organization	3
ITN 208	Protocols and Communication <sup>e</sup>	4
ITP 100	Software Design <sup>f</sup>	3
ENG 112	College Composition II <sup>a</sup> or	3
ENG 115	Technical Writing <sup>a</sup> or	(3)
ENG 138	Communication Processes II <sup>a</sup>	(3)
ITE 105	Career and Cyber Ethics	2
ITD 130	Database Fundamentals	<u>2</u>
		18

### Third Semester

HLT/PED	Health or Physical Education	1
IT	Programming Elective <sup>g</sup>	4
IT	Elective <sup>h</sup>	3
ITE 160	Introduction to E-Commerce	3
ITD 110	Web Page Design I	3
ITN 260	Network Security Basics	<del>3</del>
		17

### Fourth Semester

HLT/PED	Health or Physical Education	1
ITP 296	On-Site Training in IT <sup>i</sup>	3
	or	
ITP 298	Capstone Project in IT <sup>i</sup>	(3)
	IT Elective <sup>h</sup>	3-4
ECO	Economics Elective <sup>l</sup>	3
	Social Science Elective <sup>j</sup>	3
	Humanities/Fine Arts Elective <sup>k</sup>	<del>3</del>
		16-17

### Total credits required

**67-68**

- <sup>a</sup> Students intending to complete a four year degree in the future should select either ENG 111/112 or ENG 111/115. Students who select ENG 111 must complete the English sequence with ENG 112 OR ENG 115. ENG 115 may not satisfy English Composition requirements, please check with your four year institution.
- <sup>b</sup> Students should take the highest math for which they are prepared. Any student wishing to transfer should choose: MTH 151, MTH 157, MTH 163, MTH 173, or MTH 270.
- <sup>c</sup> Cross-listed as ETR 164.
- <sup>d</sup> ITE 119 is a co-requisite or prerequisite to all other IT courses and should be taken in the first semester.
- <sup>e</sup> Cross-listed as ETR 225.
- <sup>f</sup> ITP 100 is a prerequisite to all other IT programming courses.
- <sup>g</sup> Students should select a programming course. Suitable courses include ITD 132, ITP 120, ITP 112, ITP 244 or a second level programming course. Some programming courses will be offered every other year. Prerequisite: Completion of ITE 119 and ITP 100 or permission of instructor.
- <sup>h</sup> IT electives include BUS 226, ETR 225, ITN 151, all 100-200 level ITE, ITD, ITP, and ITN courses not already required in the program, except for ITE 130, ITE 193, and ITE 298.
- <sup>i</sup> The internship or capstone project should be completed in the last semester of the program. Credit for these courses may not be obtained through the College's advanced standing process.
- <sup>j</sup> Please refer to the list of Social Science electives available in Admissions and Records that are approved to fulfill this requirement.
- <sup>k</sup> Please refer to the approved list of Humanities/Fine Arts electives available in Admissions and Records to fulfill this requirement.
- <sup>l</sup> Students may not receive credit toward graduation for ECO 120 and ECO 201, and ECO 120 and ECO 202.

## Information Systems Technology, Information Technology for Business Specialization

---

**Award: Associate of Applied Science Degree**

**Major: Information Systems Technology**

**Specialization: Information Technology for Business**

*Possible occupations for graduates are: Information Specialist, Supervisor, Executive Administrative Assistant, Computer Sales, Software Trainer, and related occupations.*

The A.A.S. degree in Information Systems Technology with a specialization in Information Technology for Business focuses on the practical application of computing to solve business issues. It is designed to train specialists in how to use computer systems to organize, analyze, and maintain business information. It provides students with a blend of information systems technology and business courses.

## Curriculum

Course No.	Title	Credits
<b>First Semester</b>		
AST 101	Keyboarding I	3
BUS 100	Introduction to Business	3
ENG 111	College Composition I <sup>a</sup>	3
	or	
ENG 137	Communication Processes I <sup>a</sup>	(3)
MTH 103	Applied Technical Math I <sup>b</sup>	3
ITN 106	Microcomputer Operating Systems <sup>c</sup>	3
SDV	Student Development	<u>1</u>
		16
<b>Second Semester</b>		
BUS 118	Concepts of Supervision	3
ENG 112	College Composition II <sup>a</sup>	3
	or	
ENG 138	Communication Processes II <sup>a</sup>	(3)
ITE 105	Career and Cyber Ethics	2
ITE 119	Information Literacy <sup>d</sup>	3
ITE 182	User Support/Help Desk Principles	3
	Social/Behavioral Science Elective <sup>e</sup>	<u>3</u>
		17
<b>Third Semester</b>		
BUS 270	Interpersonal Dynamics in the Business Organization	3
ITE 120	Principles of Information Systems	3
ITE 140	Spreadsheet Software	3
ITE 160	Introduction to E-Commerce	3
	Health or Physical Education	1
	IT/Business Elective <sup>f</sup>	<u>3-4</u>
		16-17
<b>Fourth Semester</b>		
ECO 120	Survey of Economics <sup>h</sup>	3
HLT/PED	Health or Physical Education	1
ITD 110	Web Page Design I	3
ITD 130	Database Fundamentals	3
ITP 296	On-Site Training in IT	3
	or	
ITP 298	Capstone Project in IT	(3)
	Humanities/Fine Arts Elective <sup>g</sup>	<u>3</u>
		16
<b>Total credits required</b>		<b>65-66</b>

<sup>a</sup> Students intending to complete a four year degree in the future should select either ENG 111/112 or ENG 111/115. Students who select ENG 111 must complete the English sequence with ENG 112 or ENG 115.

<sup>b</sup> Students should take the highest math for which they are prepared. Any student wishing to transfer should choose: MTH 151, MTH 157, MTH 163, MTH 173, or MTH 270.

<sup>c</sup> Cross-listed as ETR 164.

<sup>d</sup> ITE 119 is a co-requisite or prerequisite to all other IT courses.

<sup>e</sup> Please refer to the list of Social Science electives that are approved to fulfill this requirement available in Admissions and Records.

<sup>f</sup> IT electives include BUS 200, BUS 205, BUS 221, ETR 225, ITN 151, all 100-200 level ITD, ITE, ITN, and ITP courses not already required in the program, except for ITE 130, ITE 193, and ITE 298.

<sup>g</sup> Please refer to the approved list of Humanities/Fine Arts electives of the College Catalog to fulfill this requirement available in Admissions and Records.

<sup>h</sup> Students may not receive credit toward graduation requirements in this program of study for both ECO 120 and ECO 201, and ECO 120 and ECO 202