

ASSOCIATE OF APPLIED SCIENCE DEGREE (299)

Information Systems Technology

Purpose: This curriculum is designed to prepare students for entry-level positions in Information Technology fields, and to update the technical knowledge of returning professionals. Classes in the program will educate the student in the vital skills needed to enter the modern, in-demand field of Information Technology. Every company in the modern age requires a technical staff that is well informed and up-to-date on the latest technology, and the AAS degree is designed to ensure that graduates have the knowledge that employers will look for and that returning professionals can quickly and easily update their knowledge in the field.

Accreditation: This program is accredited by the Association of Collegiate Business Schools and Programs (ACBSP).

Occupational Objectives: Students will gain the knowledge to enter or advance in a wide range of Information Technology fields, such as: Network Administrator, Web Programmer, Database Developer or GIS Developer.

Admission Requirements: Applicants must meet the general admission requirements for admission to the college. To be successful in this program, students must have demonstrated Math/English competency to be placed above Algebra I and into ENG 111. Students not achieving this level will be required to take developmental courses.

Program Requirements: It is strongly recommended that students take ENG 111 in the first year of coursework. Students are required to select one of the following concentrations: Database and Program Developer, Network & Database Administrator, Web Programmer or GIS Developer. Students should coordinate their concentration course selections with their faculty advisors.

Articulation: Based on an articulation agreement with Radford University, completion of this degree will allow students to pursue a BS degree in a variety of specializations in the College of Information Systems and Technology at Radford, either on campus at Radford or distance learning in Roanoke. Students who desire to pursue a BS must meet with an IT faculty advisor for more information.

CURRICULUM AND OTHER REQUIREMENTS CREDITS

GENERAL EDUCATION CORE COURSES

| | | |
|----------------------|--|---|
| CST 100 | Public Speaking | 3 |
| ECO 120 ¹ | Survey of Economics | 3 |
| ENG 111* | College Composition I | 3 |
| HLT/PED ² | Health or Physical Education | 1 |
| ITE 115 | Introduction to Computer Applications and Concepts | 3 |
| MTH 141* | Business Mathematics I | 3 |
| SDV 101 | Orientation | 1 |
| E ³ | Humanities/Fine Arts Elective | 3 |
| E ⁴ | Social Science Elective | 3 |

INFORMATION SYSTEMS TECHNOLOGY & RELATED COURSES

| | | |
|----------------|---------------------------------|----|
| ACC 211* | Principles of Accounting I | 4 |
| BUS 100 | Introduction to Business | 3 |
| BUS 116 | Entrepreneurship | 3 |
| ITD 110 | Web Page Design I | 3 |
| ITD 130 | Database Fundamentals | 3 |
| ITN 109 | Internet and Network Foundation | 3 |
| ITP 100 | Software Design | 3 |
| ITP 170* | Project Management | 3 |
| E ⁵ | Info System Tech Concentration | 18 |

Total Minimum Credits for Degree 69

¹ Students considering transfer to a four-year college should take ECO 201 or ECO 202.
² One credit of Health (HLT) or Physical Education (PED) is required of all students. Consult Health courses in the Description of Courses for selection of an approved course. Veterans with an honorable discharge will be awarded HLT/PED credit based on military service.
³ Any three credit 100 or 200 level ART, ENG, FRE, HUM, MUS, PHI, REL or SPA elective may be used, except ENG 111, ENG 112 or ENG 210. CST 130, 131, 132 or 136 may also be used. Students intending to transfer should contact the four-year college and choose a humanities course from the "Approved List of Transfer Courses" that is recommended by their transfer institution.
⁴ Any 100 or 200 level social science elective may be used. Students intending to transfer should contact the four-year college and choose a social science course from the "Approved List of Transfer Courses" that is recommended by their transfer institution.
⁵ An IT Concentration of 18 or 21 credits must be selected from the following four options:
 • Network & Database Administrator must take 21 credits consisting of ITD 250*, ITN 110, ITN 111, ITN 112, ITN 113, TEL 250*, Degree total - 69 Credits
 • Web Programmer must take 21 credits consisting of ART 131, ITD 112*, ITD 210*, ITD 212*, ITD 220*, ITP 140*, ITP 225*, Degree total - 69 Credits
 • Database and Program Developer must take 21 credits consisting of ITD 250*, ITD 251*, ITP 140*, (ITP 136*, 236*, 244*) or (ITP 120*, 220*, 246*), Degree total - 69 Credits
 • GIS Developer must take 18 credits consisting of GIS 200*, GIS 201*, GIS 210*, ITP 136*, ITP 136L*, ITP 236*, Degree total 66 Credits
 * This course has a prerequisite. Prerequisites for all courses are listed in the course description section at the back of the catalog.

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Information Systems Technology cont'd**SUGGESTED SCHEDULE****NETWORK AND DATABASE ADMINISTRATOR**

| | |
|--------------------|-------------------------|
| FIRST YEAR | SPRING |
| FALL | CST 100 |
| ENG 111 | ITD 130 |
| ITD 110 | ITE 115 |
| ITN 109 | ITN 111 |
| ITN 110 | MTH 141 |
| ITP 100 | Humanities/Fine Arts |
| SDV 101 | |
| SECOND YEAR | SPRING |
| FALL | ACC 211 |
| BUS 100 | ECO 120 |
| BUS 116 | ITN 113 |
| ITD250 | TEL 250 |
| ITN 112 | Social Science Elective |
| ITP 170 | |
| HLT/PED | |

WEB PROGRAMMER

| | |
|----------------------|-------------------------|
| FIRST YEAR | SPRING |
| FALL | CST 100 |
| ART 131 | ENG111 |
| ITD 110 | ITD 130 |
| ITD 112 | ITD 210 |
| ITN 109 | ITE 115 |
| ITP 100 | MTH 141 |
| SDV 101 | |
| SECOND YEAR | SPRING |
| FALL | ACC 211 |
| BUS 100 | ECO 120 |
| BUS 116 | HLT/PED |
| ITD 212 | ITD 220 |
| ITP 140 | ITP 225 |
| ITP 170 | Social Science Elective |
| Humanities/Fine Arts | |

DATABASE AND PROGRAM DEVELOPER

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|--------------------|-------------------------|
| FIRST YEAR | SPRING |
| FALL | ACC 211 |
| ENG 111 | ITD 130 |
| ITD 110 | ITP 120 or ITP136 |
| ITE 115 | HLT/PED |
| ITN 109 | MTH 141 |
| ITP 100 | Humanities/Fine Arts |
| SDV 101 | |
| SECOND YEAR | SPRING |
| FALL | BUS 100 |
| BUS 116 | CST 100 |
| ITD 250 | ECO 120 |
| ITP 170 | ITD 251 |
| ITP 140 | ITP246 or ITP 244 |
| ITP 220 or ITP236 | Social Science Elective |

GIS DEVELOPER

| | |
|--------------------|-------------------------|
| FIRST YEAR | SPRING |
| FALL | BUS 100 |
| ENG 111 | CST 100 |
| ITD 110 | ITD 130 |
| ITE 115 | ITP136 |
| ITN 109 | ITP136L |
| ITP 100 | MTH 141 |
| SDV 101 | |
| SECOND YEAR | SPRING |
| FALL | ACC 211 |
| BUS 116 | ECO 120 |
| GIS 200 | GIS 201 |
| GIS 210 | HLT/PED |
| ITP 170 | Humanities/Fine Arts |
| ITP 236 | Social Science Elective |