

INFORMATION SYSTEMS TECHNOLOGY – SOFTWARE DEVELOPMENT - A.A.S.

PROGRAM INFO

Minimum credits: 68

Length: 4 semesters
(2 years), if suggested
full-time course
sequence is followed.

Career opportunities:

Graduates may enter the
job market immediately or
increase their earning
potential by transferring
to a four-year university
to earn a bachelor's in
information technology.

Software Developer:

\$52,000-63,204

Job growth:

17% from 2014 to 2024

Computer Programmer:

\$39,798-79,840

**Median salaries & job growth
nationwide as of 2015. BLS.gov*

Division: Business,
Engineering, & Industrial
Technologies

Contact: 434.797.8440
or 434.797.8474

For course descriptions,
visit danville.edu/catalog

Program focuses on designing, creating, and maintaining desktop software. Coursework includes analyzing problems, creating solutions, writing code, testing solutions/programs, project management, production aspects, and updating projects. Students will learn core problem-solving skills, known as the “six steps to program problem-solving,” and how to use integrated development environments in today’s market.

Program Outcomes

Graduates of this program will be able to:

1. Implement Information Technology skills required by software applications.
2. Apply methodologies to stay current in IT offerings, trends, and certifications.
3. Apply analytical and problem-solving skills for computer system designs, planning, and support.
4. Design, code, test, debug, and document software needed for computer system implementation and maintenance.
5. Apply current IT industry standards, protocols, and techniques.
6. Use instructional applications and material which could lead to industry certifications.

Industry Certifications:

Students can sit for the Java Foundations certification after the first semester and the Java SE 7 Programmer (1Z0-803) after the second semester.

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Course Sequence		Lecture Hrs	Lab Hours	Hrs in Class	Credits
First Semester					
AST 114	¹ Keyboarding for Computer Usage	2	0	2	2
ENG 131	Technical Report Writing	3	0	3	3
HLT/PED	Elective	0	2	2	1
ITE 120	Principles of Information Systems	3	0	3	3
ITP 100	Software Design	3	0	3	3
ITP 120	Java Programming I	4	0	4	4
SDV 100	College Success Skills	1	0	1	1
Total		16	2	18	17
Second Semester					
ECO 120	Survey of Economics	3	0	3	3
BUS	Business Elective	3	0	3	3
ITP 220	Java Programming II	4	0	4	4
ITP 258	Systems Development Project	3	0	3	3
MTH 121	Fundamentals of Math I (<i>or approved sub</i>)	3	0	3	3
Total		16	0	16	16
Third Semester					
ITP 136	C# Programming	4	0	4	4
ITD 132	Structured Query Language	3	0	3	3
ITE 150	Desktop Database Software	4	0	4	4
ITP 246	Server-Side Java Programming	4	0	4	4
BUS 204	Project Management	4	0	4	4
Total		19	0	19	19
Fourth Semester					
BUS 236	Communication in Management	3	0	3	3
ITP 244	ASP.NET Programming	4	0	4	4
ITN 109	Internet and Network Foundations	3	0	3	3
ITP 170	Project Management	3	0	3	3
HUM	Humanities Elective	3	0	3	3
Total		16	0	16	16

¹ Students having prior keyboarding experience may request testing out.