

Model Programs of Study in Information Technology

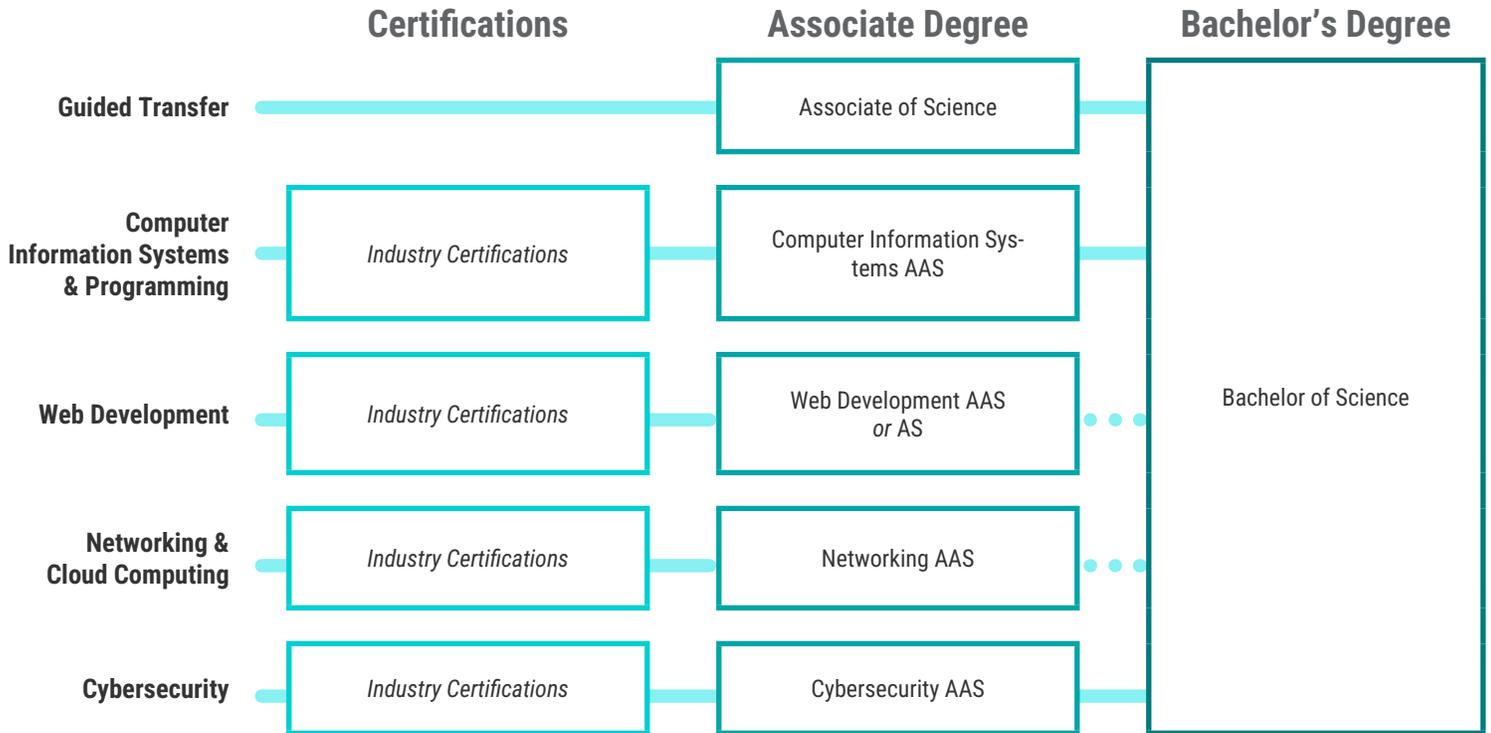
Recommended Courses

	GRADES 9–10 Orientation	GRADES 10–12 Skill Development	GRADE 12 Capstone	 1ST YEAR* Postsecondary
Computer Information Systems, Programming, & Web Development	Computer Applications for Business 	<i>Mobile applications or web development courses</i>  Choose 1: • Introduction to Computer Information Systems  • Computer Science Principles 	Choose 1: • Computer Science I  • Computer Science A 	Computer Science I  Computer Science II  Intro to Web Development
Networking		<i>Hardware or operating system courses</i>  Choose 1: • Introduction to Computer Information Systems  • Computer Science Principles 	Intro to Networking  	Continue Course Sequence 
Work-Based Learning	Career Exploration (2)	Choose 1: Career Development Experience or Youth Apprenticeship		
	Team-Based Challenge (2); may be offered through <i>Career and Technical Student Organizations</i>			
Math	Math sequence: high-est-level course possible	Math sequence: highest-level course possible	Choose 1: • College Algebra  • Pre-Calculus • Transitional Math: STEM • Calculus  • Statistics 	Choose 1: • Calculus*  • Statistics* 
English	English sequence	English sequence	Choose 1: • Transitional English • English Composition 	Choose 1: • English Composition*  • Oral Communication  • Business Communications
Science	Science sequence	Science sequence	Science sequence	Science sequence
Social Science	Social science sequence	Social science sequence	Social science sequence 	Social science sequence 

KEY:  AP or dual credit course  Dual credit course  College & Career Pathway Endorsement
 Dual credit course with IAI  Postsecondary course with IAI  Course prepares for industry credential

* If credit was already earned through an early college course, take the next requirement in the sequence or, if none, additional AAS or major courses

Postsecondary Opportunities



● ● ● Bachelor's degree is not required for employability

Selected Occupations, Wages, and Job Growth

Program	Typical Job(s)	Living Wage Potential*	Median Hourly Wage**	IL Growth: Change over 10 years ***	IL Annual Job Openings***	Typical Educational Requirements
Guided Transfer	Computer and Information Systems Managers	High	\$78.01	8.0%	1,828	Bachelor's Degree
	Software Developers or Software Quality Assurance Analysts and Testers	High	\$52.44	18.0%	6,256	
	Database Architects	High	\$66.32	5.6%	526	
Computer Information Systems & Programming	Computer User Support Specialists	Medium	\$27.93	4.1%	1,539	Some College
	Database Administrators	High	\$49.18	5.6%	526	Bachelor's Degree
	Computer Systems Analysts	High	\$49.45	4.2%	2,306	
Web Development	Web and Digital Interface Designers	Medium	\$35.94	7.3%	548	Bachelor's Degree
Networking, Cloud Computing, & Cybersecurity	Computer Network Support Specialists	Medium	\$33.95	3.4%	999	Associate Degree
	Network and Computer Systems Administrators	High	\$42.72	3.1%	804	Bachelor's Degree
	Information Security Analysts	High	\$54.18	25.3%	428	

* Living wage potential is based on MIT's Living Calculator (livingwage.mit.edu) for Illinois in 2024. Occupations with median salaries higher than the living wage for 1 adult + 1 child (\$39.63/hour) are considered as having a "high" living wage potential. Occupations with median salaries only higher than the living wage of 1 adult, no children (\$22.86/hour) are considered as having a "medium" living wage potential, and occupations with median salaries below the living wage of 1 adult, no children (less than \$22.86/hour) are considered as having a "low" living wage potential.

** Illinois Department of Employment Security (2022). Wage Information: Occupational Employment and Wage Statistics (Statewide). Retrieved April 2, 2024, from ides.illinois.gov/resources/labor-market-information/oews.html

*** Illinois Department of Employment Security. Employment Projections (Long-Term Occupational Projections 2020-2030). Retrieved April 2, 2024, from ides.illinois.gov/resources/labor-market-information/employment-projections.html