

Information Technology, BAP

Program Description

The Bachelor of Applied Studies (BAP) in Information Technology is a terminal, 90-credit degree that is workforce-focused, streamlined for applied skills, entry to mid-level preparation, and industry certifications. This is in contrast to the Bachelor of Science (BS) in Information Technology, which offer broader academic outcomes, including advanced design, integration, applied research, and preparation for graduate study. The program combines foundational coursework in computer systems, networking, cybersecurity, programming, and cloud technologies with hands-on, industry-aligned training.

This program features stackable credentials that recognize achievement along the pathway to this degree. These include:

- Information Technology Certificate (16 credits): Covers fundamentals in hardware, software, and troubleshooting.
- Associate of Applied Science in Information Technology (60 credits): Builds skills in networking, security, and cloud infrastructure.

Compared to the BS in Information Technology, this degree is more streamlined, focusing on general IT knowledge rather than the broader breadth of the BS degree.

Program Curriculum

90 Credits

Utah Tech General Education Requirements

All Utah Tech General Education requirements must be fulfilled. A previously earned degree may fulfill those requirements, but courses must be equivalent to Utah Tech's minimum General Education standards in American Institutions, English, and Mathematics.

General Education Core Requirements (<https://catalog.utahtech.edu/programs/generaleducation/#gerequirementstext>)

Code	Title	Hours
English		3-7
Mathematics		3-5
American Institutions		3-6
Life Sciences		3-10
Physical Sciences		3-5
Fine Arts		3
Literature/Humanities		3
Social & Behavioral Sciences		3

Information Technology Core Requirements

Code	Title	Hours
CS 1400	Fundamentals of Programming	3
CS 1410	Object Oriented Programming	3
IT 1100	Introduction to Unix/Linux	3
IT 1200	A+ Computer Hardware/Windows OS	3
IT 1500	Cloud Fundamentals	1
IT 2150	Windows Servers	3
IT 2300	Database Design & Management	3
IT 2400	Intro to Networking	3
IT 2700	Information Security	3
IT 3100	Systems Design and Administration	3
IT 3400	Intermediate Computer Networking	3
IT 3510	Cloud Computing	3
IT 4600	Senior Capstone	3

Information Technology Elective Courses

Code	Title	Hours
Complete 24 credits from the following:		
CS 2450	Software Engineering	3
CS 3005	Programming in C++	3
IT 3110	System Automation	3
IT 3300	DevOps Virtualization	3
IT 3700	CyberOps	3
IT 3710	Network Defense	3
IT 4100	Files Systems and Storage Technologies	3
IT 4200	DevOps Lifecycle Management	3
IT 4400	Network Design & Management	3
IT 4310	Database Administration	3
IT 4510	Ethical Hacking	3
IT 4700	Enterprise Security Architecture	3
IT 4920R	Internship	1-3
IT 4990	Special Topics in Information Technology	0.5-3

Graduation Requirements

1. Complete a minimum of 90 college-level credits (1000 and above).
2. Complete at least 30 upper-division credits (3000 and above).
3. Complete at least 30 upper-division credits at Utah Tech for institutional residency.
4. A maximum of 12 upper-division transfer credits may fulfill Utah Tech Information Technology program requirements.
5. Cumulative GPA 2.0 or higher.
6. Grade C or higher in each Core Requirement, Core Elective Requirement, and Elective Requirement course.

Graduation Plan

1st Year

Fall Semester	Hours Spring Semester	Hours
CS 1400	3 COMM 2110	3
ENGL 1010	3 CS 1410	3
IT 1100	3 IT 1200	3
IT 1500	1 IT 2300	3
MATH 1040	3 IT 2400	3
SSC 1010	2 SET 1000	0
	15	15

2nd Year

Fall Semester	Hours Spring Semester	Hours
ENGL 2100	3 General Education (Physical Sciences)	3
General Education (American Institution)	3 General Education (Life Sciences)	3
IT Elective (Upper Division)	3 IT Elective (Upper Division)	3
IT 3100	3 IT 2700	3
IT 3510	3 IT 3400	3
	15	15

3rd Year

Fall Semester	Hours Spring Semester	Hours
General Education (Fine Arts)	3 General Education (Humanities)	3
IT Elective (Upper Division)	3 IT 2150	3

IT Elective (Upper Division)	3 IT 4600	3
IT Elective (Upper Division)	3 IT Elective (Upper Division)	3
IT Elective (Upper Division)	3 IT Elective (Upper Division)	3
15		15

Total Hours 90

Bachelor of Applied Studies in Information Technology Program Learning Outcomes

At the successful completion of this program, students will be able to:

1. Apply Technical Skills to Workplaces contexts by demonstrating proficiency in configuring, administering, and supporting computing environments, including hardware, operating systems, networks, and cloud platforms, to meet organizational needs.
2. Implement secure and reliable IT solutions by applying cybersecurity fundamentals and best practices to protect systems, troubleshoot vulnerabilities, and maintain compliance with ethical and legal standards.
3. Utilize industry tools and automation -employ automation, virtualization, and emerging IT tools to improve efficiency, scalability, and reliability of the organization's IT systems.
4. Diagnose and resolve technical issues using structured troubleshooting methods, documenting solutions in ways accessible to both technical and non-technical audiences.
5. Demonstrate workforce readings by learning and applying industry-recognized certifications (e.g., CompTIA, AWS, Microsoft) and communicate effectively as IT professionals in diverse organizational settings.