INFORMATION TECHNOLOGY SPECIALIST AAS (92 CREDITS)

Bates Technical College
2024-25 Catalog Addendum
AAS, AAST, CoC
Final quarter course change

Plan Code: CSTIPAPT

The Information Technology Specialist Associate in Applied Science (AAS) is a six-quarter program. Courses in this program are in hybrid format. This modality supports industry skills and knowledge mastery through instructor-guided, hands-on learning and online engagement. The program typically enrolls in the Fall and Spring quarters. Students use various computer equipment, networking devices, and servers. Students are responsible for purchasing textbooks, virtual lab simulations, computer toolkits, basic networking tools, and USB drives. Laptops are available for student checkout on a first-come, first-served basis.

The program's technical core provides hands-on skills in information systems, networking, mobile devices, cloud and virtualization technologies, and security concepts. Graduates demonstrate proficiency in information technology, effective verbal, and written communications skills, and identify and summarize assumptions to draw logically valid conclusions. Core-related training relates to business, project, and team communication skills. Much of the curriculum is aligned with in-demand industry certifications through Computing Technology Industry Association (CompTIA), Microsoft, or Amazon Web Services.

Technology is a vital force in today's business and will continue to experience exponential changes in the future. As such, job opportunities in this field remain strong. Graduates prepare for various information technology (IT) computer and networking careers, including Desktop Support Specialist, Computer Support Specialist, Technical Support Specialist, IT Specialist, IT Support Specialist, Help Desk Technician, and Network Support Analyst.

CIP: 11.0901

EPC: 527

General Education Requirements

- 5 credits of COLL 101 College Success *
- 5 credits from the Quantitative Distribution

And

- 5 credits from the Communications Distribution OR Sciences and Humanities Distribution

**Note: COLL 101 fulfills either Communications or Humanities*

***Note: Students who have previously attended college or university may qualify to opt-out of the COLL 101 requirement. Please speak with your career advisor if you believe this may be an option for you. Students opting out of the COLL 101 course must take 5 credits from each of the three distributions: Communications, Quantitative, and Sciences/Humanities*

Note: See a Career Advisor prior to choosing courses that meet general education requirements.

Required Courses

Quarter 1

COLL 101	College Success	5
INFO 102	IT Applications	4
INFO 104	IT Systems I	5
INFO 118	Cloud & Virtualization Technologies	4

Quarter 2

CCNT 110	Fundamentals of Linux	4
INFO 105	IT Systems II	5
INFO 116	Modern Desktop Support I	4
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 3

CCNT 130	Server Administration	4
CCNT 140	Cisco Networking Fundamentals	4
INFO 117	Modern Desktop Support II	4
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 4

CCNT 150	Server I	4
CCNT 160	Cisco Routing & Switching	4
INFO 205	Security I	5

Quarter 5

CCNT 120	Cloud Computing	4
CCNT 210	Server II	4
INFO 206	Security II	5

Quarter 6

XINFO 101	INFO 122 Introduction to Career Success XXXXXXXXXXXX User Support Fundamentals	5
INFO 220	Microsoft Services	4
INFO 290	Independent Project	4

TOTAL CREDIT HOURS: 92

INFORMATION TECHNOLOGY SPECIALIST AAS-T (102 CREDITS)

Plan Code: CSTIPAAS

The Information Technology Specialist Associate in Applied Science Transfer (AAS-T) is a six-quarter program. Courses in this program are in hybrid format. This modality supports industry skills and knowledge mastery through instructor-guided, hands-on learning and online engagement. The program typically enrolls in the Fall and Spring quarters. Students use various computer equipment, networking devices, and servers. Students are responsible for purchasing textbooks, virtual lab simulations, computer toolkits, basic networking tools, and USB drives. Laptops are available for student checkout on a first-come, first-served basis.

The program's technical core provides hands-on skills in information systems, networking, mobile devices, cloud and virtualization technologies, and security concepts. Graduates demonstrate proficiency in information technology (IT), effective verbal, and written communications skills, and identify and summarize assumptions to draw logically valid conclusions. Core-related training relates to business, project, and team communication skills. Much of the curriculum is aligned with in-demand industry certifications through Computing Technology Industry Association (CompTIA), Microsoft, or Amazon Web Services.

Technology is a vital force in today's business and will continue to experience exponential changes in the future. As such, job opportunities in this field remain strong. Graduates prepare for various information technology computer and networking careers, including Desktop Support Specialist, Computer Support Specialist, Technical Support Specialist, IT Specialist, IT Support Specialist, Help Desk Technician, and Network Support Analyst.

CIP: 11.0901

EPC: 527

General Education Requirements

10 credits from the Communications Distribution

5 credits from the Quantitative Distribution

10 credits from the Sciences and Humanities Distribution

Note: See a Career Advisor prior to choosing courses that meet general education requirements.

Information Technology Specialist AAS-T (102 credits)

Quarter 1

INFO 102	IT Applications	4
INFO 104	IT Systems I	5
INFO 118	Cloud & Virtualization Technologies	4
GENED	*Communications or Quantitative*	*5*

Quarter 2

CCNT 110	Fundamentals of Linux	4
INFO 105	IT Systems II	5
INFO 116	Modern Desktop Support I	4
GENED	*Communications or Quantitative*	*5*

Quarter 3

CCNT 130	Server Administration	4
CCNT 140	Cisco Networking Fundamentals	4

INFO 117	Modern Desktop Support II	4
GENED	Communications or Quantitative	5

Quarter 4

CCNT 150	Server I	4
CCNT 160	Cisco Routing & Switching	4
INFO 205	Security I	5
GENED	Communications or Quantitative or Sciences-Humanities	5

Quarter 5

CCNT 120	Cloud Computing	4
CCNT 210	Server II	4
INFO 206	Security II	5
GENED	Sciences-Humanities	5

Quarter 6

XXXXX XXX	Interviewing and Career Success XXXXXXXXXX XXXXXX	5
INFO 220	Microsoft Services	4
INFO 290	Independent Project	4

TOTAL CREDIT HOURS: 102

INFORMATION TECHNOLOGY SUPPORT CERTIFICATE OF COMPETENCY (67 CREDITS)

Plan Code: CSTIUC45

The Certificate of Competency in Information Technology Support is a four-quarter program. Courses in this program are in hybrid format. This modality supports industry skills and knowledge mastery through instructor-guided, hands-on learning and online engagement. The program typically enrolls in the Fall and Spring quarters. Students use various computer equipment, networking devices, and servers. Students are responsible for purchasing textbooks, virtual lab simulations, computer toolkits, basic networking tools, and USB drives. Laptops are available for student checkout on a first-come, first-served basis.

The program's technical core provides hands-on skills in information systems, networking, and desktop virtualization. Graduates demonstrate proficiency in information technology (IT), effective verbal, and written communications skills, and identify and summarize assumptions to draw logically valid conclusions. Core-related training relates to business, project, and team communication skills. Much of the curriculum is aligned with in-demand industry certifications through CompTIA.

Technology is a vital force in today's business and will continue to experience exponential changes in the future. Job opportunities in this field remain strong. Graduates prepare for a variety of information technology computer careers, including Help Desk Technician, Technical Support Specialist, Desktop Support Specialist, and Information Technology Support.

CIP: 11.0901

EPC: 527

Outcomes

Implement computer-based solutions for desktop and laptop computers to install, troubleshoot, configure, and maintain hardware components and core software applications.

Troubleshoot problems with wired and wireless networks, printers, video, storage, computer memory, and computer processing units.

Perform essential network systems administration skills related to server operating systems, including user management, resource sharing, network protocols, and computer and information security.

Practice communication, problem-solving, and ethical decision-making skills through the use of appropriate technology and with an understanding of the business environment.

General Education Requirements

- 5 credits of COLL 101 College Success *
- 5 credits from the Quantitative Distribution

And

- 5 credits from the Communications Distribution OR Sciences and Humanities Distribution

**Note: COLL 101 fulfills either Communications or Humanities*

***Note: Students who have previously attended college or university may qualify to opt-out of the COLL 101 requirement. Please speak with your career advisor if you believe this may be an option for you. Students opting out of the COLL 101 course must take 5 credits from each of the three distributions: Communications, Quantitative, and Sciences/Humanities*

Note: See a Career Advisor prior to choosing courses that meet general education requirements.

Information Technology Specialist Certificate of Competence (67 Credits)

Quarter 1

COLL 101	College Success	5
INFO 102	IT Applications	4
INFO 104	IT Systems I	5

INFO 118	Cloud & Virtualization Technologies	4

Quarter 2

CCNT 110	Fundamentals of Linux	4
INFO 105	IT Systems II	5
INFO 116	Modern Desktop Support I	4
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 3

CCNT 130	Server Administration	4
CCNT 140	Cisco Networking Fundamentals	4
INFO 117	Modern Desktop Support II	4
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 4

CCNT 150	Server I	4
INFO 111 XXXX INFO 122	Interviewing and Career Success XXXXXXXXXXXXXXXX User Support Fundamentals	5
INFO 205	Security I	5

TOTAL CREDIT HOURS: 67