

PRAIRIE STATE COLLEGE

INFORMATION TECHNOLOGY



DEGREES AND CERTIFICATES

ASSOCIATE IN APPLIED SCIENCE (A.A.S.)

Networking
Programming
Web

CERTIFICATE OF ACHIEVEMENT

IT Networking Certificates

Computer Support Associate
Computer Technician
Cisco Network Associate
Networking Specialist
Network Security Specialist

IT Programming Certificates

Game Design and Development
Programming

INDUSTRY CERTIFICATIONS

PSC has partnered with Microsoft and CompTIA to deliver training that prepares students for industry certification exams. Common certifications include MCSE, A+, MOS, NETWORK+, and CIW. For more information, visit prairiestate.edu/academics/academic-programs/information-technology

Information Technology

Networking Option

A.A.S. Degree

This program prepares students for the rapidly changing world of computers. After completing core courses, students may choose one of the following options: applications, networking, programming, or web. Career opportunities vary according to the option selected.

Information Technology: Networking Option

I. General Education Core **18-19**

Area A: Communication **6**

ENG 101 Composition I - with a grade of C or better 3
COMM 101 Principles of Communication 3

Area B: Humanities and Fine Arts **3**

Select one course from Area B 3

Area C: Mathematics **3**

IT 106 Mathematics for Computers 3

Area D: Physical and Life Sciences **3-4**

Select one course from Area D 3-4

Area E: Social and Behavioral Sciences **3**

Select one course from Area E 3

II. Program Requirements **46**

Core Courses:

BUS 101 Introduction to Modern Business 3
IT 101 IT Orientation 1
IT 205 Ethics in Information Technology 2
ITAPP 101 Introduction to Computers 3
ITNET 299 Internship 2
or
IT 295 IT Portfolio Seminar 2

Networking Concentration Courses:

IT 140 Intro to Operating Systems 3
IT 201 Systems Design and Development 3
IT 240 Linux Operating System 3
ITNET 160 Computer Repair 4
ITNET 165 Introduction to Networking 3
ITNET 250 Intro to LAN Administration 3
ITNET260 Network Security Fundament 3

Select 13 credits from the following:

ITAPP 109 Introduction to the Internet 1
ITAPP 121 Word Processing Applications - Level I 3
ITAPP 125 Spreadsheet Applications - Level I 3
ITAPP 128 Database Applications - Level I 3
ITAPP 133 Presentation Applications 2
ITNET 175 Introduction to Networking II 3
ITNET 235 CCNA LAN Design 3
ITNET 245 CCNA WAN Design 3
ITNET 280 Ethical Hacking 3
ITPRG 103 Introduction to Programming 3
ITPRG 142 Visual Basic Programming I 3
ITPRG 144 C++ Programming I 3
ITPRG 147 Java Programming I 3
ITWEB 101 Web Page Fundamentals 3

Program Total: 64-65 credits

IT Networking Certificates

Computer Support Associate

Certificate

This program prepares students to work in career fields of computer support, maintenance, and repair. Students will receive training in computer hardware, software, and first level trouble shooting support. Students will learn about computer hardware components and system operating systems. Jobs can be found in career fields such as PC support technician and computer help desk. This program prepares students for the CompTIA IT Fundamentals and A+ certifications.

Program Requirements

IT 101	IT Orientation	1
IT 140	Introduction to Operating Systems	3
ITNET 160	Computer Repair	4

Program Total **8 credits**

Computer Technician

Certificate

This program prepares students for entry level positions in PC installation, maintenance, and repair professions. Common career titles include PC support technician, hardware specialist, and help desk support specialist. Students will examine PC software, including operating systems, network management, and desktop utilities. This program prepares students for the CompTIA A+ and Network+ certifications.

Program Requirements

IT 101	IT Orientation	1
IT 140	Introduction to Operating Systems	3
IT 205	Ethics in Information Technology	2
ITNET 160	Computer Repair	4
ITNET 165	Introduction to Networking	3
ITNET 250	Into to LAN Administration	3

Program Total **16 credits**

Cisco Network Associate

Certificate

This program prepares students for employment as a Cisco network technician with an emphasis on administering, installing, maintaining and troubleshooting Cisco systems. In the program, students are introduced to routers, LAN/WAN design and the integration of the Internet in the corporate enterprise network. Upon completion, students may seek various industry certification credentials such as CompTIA Network+, Cisco CCENT, and/or Cisco CCNA.

Program Requirements

IT 101	IT Orientation	1
IT 140	Introduction to Operating Systems	3
ITNET 165	Introduction to Networking	3
ITNET 175	Introduction to Networking II	3
ITNET 235	CCNA LAN Design	3
ITNET 245	CCNA WAN Design	3

Program Total **16 credits**



Networking Specialist

Certificate

This certificate prepares students for entry-level positions commonly known as network administrator, network analyst, and network engineer. A computer networking specialist must have extensive knowledge of network connectivity, protocols, network security devices, network mediums, including wireless, fiber optic, or CAT5, and common operating systems such as Windows, Linux, and UNIX. Students will examine the planning, installation, CompTIA A+, Network+, and Linus + industry certifications.

Program Requirements

IT 101	IT Orientation	1
IT 205	Ethics in IT	2
IT 140	Introduction to Operating Systems	3
IT 240	Linux Operating System	3
ITNET 160	Computer Repair	4
ITNET 165	Introduction to Networking	3
ITNET 250	Introduction to LAN Administration	3
ITNET 260	Network Security Fundamentals	3

Program Total

22 credits

Network Security Specialist

Certificate

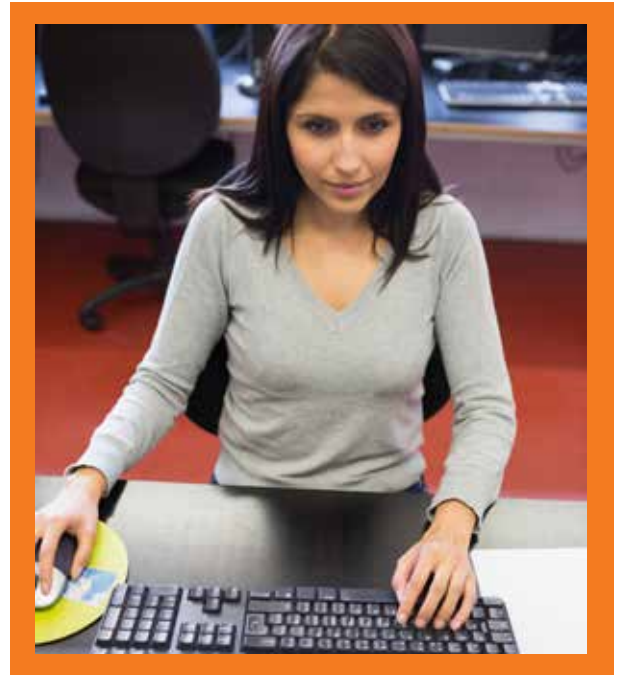
This certificate provides students with skills for beginning a profession in cyber security. Network security specialists build firewalls, monitor computer networks to detect unauthorized users, prevent security breaches and resolve compromised environments. They play an important role in preserving information confidentiality, implementing safeguards that protect sensitive data and system integrity. Typical job titles include network security technicians, information security analysts, computer security specialists and cyber security engineers. This program helps students to prepare for the CompTIA A A+, Network, and Security+ Industry Certifications.

Program Requirements

IT 101	IT Orientation	1
IT 140	Introduction to Operating Systems	3
IT 205	Ethics in Information Technology	2
ITNET 160	Computer Repair	4
ITNET 165	Introduction to Networking	3
ITNET 250	Introduction to LAN Administration	3
ITNET 260	Network Security Fundamentals	3
ITNET 280	Ethical Hacking	3

Program Total

22 credits



Information Technology

Web Option

A.A.S. Degree

This program prepares students for the rapidly changing world of computers. After completing core courses, students may choose one of the following options: applications, networking, programming, or web. Career opportunities vary according to the option selected.

Information Technology:

Information Technology: Web Option

I. General Education Core

18-19

Area A: Communication

6

ENG 101 Composition I - with a grade of C or better 3

COMM 101 Principles of Communication 3

Area B: Humanities and Fine Arts 3

Select one course from Area B 3

Area C: Mathematics 3

IT 106 Mathematics for Computers 3

Area D: Physical and Life Sciences 3-4

Select one course from Area D 3-4

Area E: Social and Behavioral Sciences 3

Select one course from Area E 3

II. Program Requirements

46

Core Courses:

BUS 101 Introduction to Modern Business 3

IT 101 IT Orientation 1

IT 205 Ethics in Information Technology 2

ITAPP 101 Introduction to Computers 3

ITWEB 299 Internship 2

or

IT 295 IT Portfolio Seminar 2

Web Concentration Courses:

COMM 111 Introduction to Mass Communication 3

GC 115 Introduction to Computer Art 3

or

ART 115 Introduction to Computer Art 3

IT 140 Introduction to Operating Systems 3

IT 240 Linux Operating System 3

IT 201 Systems Design and Development 3

ITAPP 109 Introduction to the Internet 1

ITPRG 157 JavaScript Programming 3

PHOTO 170 Digital Camera Skills 1

ITWEB 101 Web Page Fundamentals 3

ITWEB 103 Web Site Design - Level I 3

ITWEB 105 Multimedia Writing 3

ITWEB 201 Technology of E-Commerce 3

ITWEB 203 Web Site Design - Level II 3

PHOTO 170 Digital Camera Skills 1

Program Total:

64-65 credits



IT Programming Certificates

Game Design and Development

Certificate

Game Design and Development is a rapidly growing field that produces a wide variety of jobs. The program offers students the ability to explore different facets of the industry, as well as other digital entertainment and educational areas. This program combines current technology skills with art, design, writing, and programming.

Program Requirements

IT 101	IT Orientation	1
ENG 101	Composition I	3
GC 115	Introduction to Computer Art (same as ART 115)	3
GC 175	2D Animation	3
IT 140	Introduction to Operating Systems	3
IT 205	Ethics in Information Technology	2
ITPRG 103	Introduction to Programming	3
ITPRG 144	C++ Programming I	3
ITPRG 171	Game Design I	3
ITPRG 173	Digital Storytelling	3

Select one of the following courses:

ITPRG 142	Visual Basic Programming I	3
ITPRG 147	Java Programming I	3
ITPRG 154	C#.NET Programming	3
ITPRG 244	C++ Programming II	3

Program Total

30 credits

Programming

Certificate

This program is designed for working adults who need to update their skills and knowledge of programming languages. Object-oriented and event-driven languages, as well as traditional structured languages, are included in the curriculum. Some career opportunities include Visual Basic programmer, C++ programmer, Java programmer, object-oriented programmer, and user interface designer.

Program Requirements

IT 101	IT Orientation	1
IT 140	Introduction to Operating Systems	3
IT 201	Systems Design and Development	3
ITPRG 103	Introduction to Programming	3
ITPRG 142	Introduction to Visual Basic Programming	3
ITPRG 144	C++ Programming	3
ITPRG 147	Java Programming I	3

Select one course from:

ITPRG 154	C#.NET Programming	3
ITPRG 157	Javascript Programming	3
ITPRG 242	Visual Basic Programming II	3
ITPRG 244	C++ Programming II	3
ITPRG 247	Java Programming II	3

Program Total

22 credits



Information Technology

Programming Option

A.A.S. Degree

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Information Technology: Programming Option

I. General Education Core 18-19

Area A: Communication 6

ENG 101	Composition I - with a grade of C or better	3
COMM 101	Principles of Communication	3

Area B: Humanities and Fine Arts 3

Select one course from Area B 3

Area C: Mathematics 3

IT 106	Mathematics for Computers	3
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Area D: Physical and Life Sciences 3-4

Select one course from Area D 3-4

Area E: Social and Behavioral Sciences 3

Select one course from Area E 3

II. Program Requirements 46

Core Courses:

BUS 101	Introduction to Modern Business	3
IT 101	IT Orientation	1
IT 205	Ethics in Information Technology	2
ITAPP 101	Introduction to Computers	3
ITPRG 299	Internship	2
or		
IT 295	IT Portfolio Seminar	2

Programming Concentration Courses:

IT 140	Intro to Operating Systems	3
IT 201	Systems Design and Development	3
ITPRG 103	Introduction to Programming	3
ITPRG 142	Visual Basic Programming I	3
ITPRG 144	C++ Programming I	3
ITPRG 147	Java Programming I	3

Choose **one** of the three following courses:

ITPRG 242	Visual Basic Programming II	3
ITPRG 244	C++ Programming II	3
ITPRG 247	Java Programming II	3

Select 15 credits from the following:

ITPRG 154	C#.NET Programming	3
ITPRG 157	JavaScript Programming	3
ITPRG 242	Visual Basic Programming II	3
ITPRG 247	Java Programming II	3
ITWEB 101	Web Page Fundamentals	3
ITWEB 103	Web Site Design - Level I	3
ITWEB 201	Tech of E-Commerce	3

Program Total: 64-65 credits





ADMISSIONS

PSC offers “open admission” that encourages diversity and admits all high school graduates or the equivalent.

Here’s how to start your college career at PSC:

- Provide a high school diploma or GED.
- Take the COMPASS Placement Test or submit a copy of ACT scores.
- Meet with an advisor from Counseling and Advising to select courses. For questions, contact an academic advisor at (708) 709-3506.

Financial Aid Information

PSC’s tuition is affordable, and financial aid is available through a variety of sources.

How to Apply

1. Complete the Free Application for Federal Student Aid (FAFSA)

The school code for PSC is 001640. Apply online at fafsa.gov.

2. Notification from Department of Education

If you listed PSC’s school code in your FAFSA, the college’s Financial Aid Office will receive your report in approximately 14 days.

3. Notification from PSC

Once PSC receives your FAFSA from the Department of Education, a letter is mailed to the student indicating needed documents.

4. Complete the PSC financial aid application.

5. Determination Letter

Once all documents are completed, an award or ineligible letter is issued.

PSC Financial Aid Opportunities:

- PSC Board of Trustees Scholarships cover tuition and fees for two years.
- The PSC Foundation awards more than \$75,000 in scholarships annually.

For more information about how to obtain financial aid, visit prairiestate.edu/finaid, call (708) 709-3735, or email financial-aid@prairiestate.edu.

Gainful Employment Disclosure

Visit prairiestate.edu/ge for important information about our gainful employment programs.

Find out more today by contacting

Jackie Dennis

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ITAPP/ITNET/ITPRG/ITWEB, Information Technology

(708) 709-3649

jdennis@prairiestate.edu

Gainful Employment Disclosure

The U.S. Department of Education requires colleges with financial aid eligible programs that “prepares students for gainful employment in a recognized occupation” to disclose certain information about these programs. For more information about our graduation rates, the median debt of students who have completed the program, and other important information related to the program, please visit our website at prairiestate.edu/ge. We hope that this information is helpful in making informed choices about your education.

 **Prairie State College**

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