# Biotechnology

**Potential Careers at Cook**

- Regulatory Affairs Clerk
- Document Control Clerk
- Departmental Training Clerk
- Functional Training Coordinator
- Production Coordinator
- Engineering Technician
- Quality Assurance

## PROGRAM OVERVIEW

Biotechnology encompasses a wide range of industries that use living organisms to make beneficial products for humanity. Various natural sciences, including cell and molecular biology, microbiology, genetics, physiology, and biochemistry, as well as medicine, engineering, and computer science are subdisciplinary areas of biotechnology.

In the 21st century, we have tremendous potential to advance the field of biotechnology in order to improve the quality of all life. In the last two decades we have seen remarkable advances in many aspects of biotechnology, including new diagnostic procedures for diseases such as cancer, genetic alterations of plants and animals, and production of bacteria that clean up toxic waste.

## DEGREE OFFERINGS

### Associate of Science (AS) Degree

Prepares students for transfer to four-year colleges. The complete Ivy Tech AS degree in Biotechnology transfers seamlessly to Indiana University - Bloomington. Many other four-year institutions accept credits from the Ivy Tech Biotechnology program.

### Associate of Applied Science (AAS) Degree

Prepares students for careers in biotechnology and medical device industries. You can choose classes to focus your degree in:

#### Regulatory Affairs

Regulatory affairs is an area within certain industries, such as food, pharmaceutical, and medical device industries, that ensures company compliance with mandated governmental regulations. Regulatory Affairs professionals work with federal (FDA), state, and local regulatory agencies and personnel on specific issues affecting their businesss. This Associate of Applied Science program focuses on food and drug law, product life cycles, clinical trials, post market issues, technical writing, and risk management.

#### Technical Focus

This focus emphasizes teaching students analysis of biological molecules, recombinant DNA technology, cell culture skills using bioreactors and fermentors, and small and large scale biomolecule purification. Key program objectives include practicing within full compliance of the biotechnology regulatory environment, practicing good documentation, and laboratory and plant safety skills.

To learn more, contact your local Cook Human Resources team.

COOK GROUP

IVY TECH COMMUNITY COLLEGE

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## CERTIFICATES LEAD TO FURTHER ACADEMIC AND CAREER OPTIONS.

All certificates on the left lead to an Associate of Applied Sciences in Biotechnology degree. Medical Device Quality also leads to Design Technology. *See Design Technology flyer for details.*

# CERTIFICATES

### Regulatory Affairs

| | |
|---|---|
| ENGL 111 | English Composition |
| ENGL 211 | Technical Writing |
| BIOT 214 | Food and Drug Law |
| BIOT 215 | Clinical Trials |
| BIOT 216 | Risk Management |
| BIOT 218 | Product Life Cycle |
| **TOTAL CREDIT HOURS = 18** | |

### Pharmaceutical Manufacturing

| | |
|---|---|
| BIOT 100 | Survey of Biotechnology |
| BIOT 102 | Survey of Biotechnology Manufacturing |
| BIOT 103 | Safety and Regulatory Compliance |
| BIOT 104 | Quality Practices |
| BIOT 105 | Survey of Regulatory Affairs |
| BIOT 110 | Pharmaceutical Product Manufacturing |
| **TOTAL CREDIT HOURS = 18** | |

### Medical Device Quality

| | |
|---|---|
| BIOT 100 | Survey of Biotechnology |
| BIOT 102 | Survey of Biotechnology Manufacturing |
| BIOT 103 | Safety and Regulatory Compliance |
| BIOT 104 | Quality Practices |
| DESN 101 | Introduction to Design Technology |
| INDT 108 | Metrology |
| **TOTAL CREDIT HOURS = 18** | |

# DEGREES

### Biotechnology, AAS

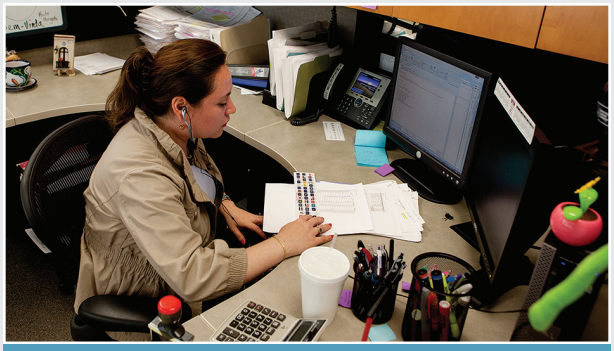
| | |
|---|---|
| CHEM 105 | General Chemistry I |
| CHEM 106 | General Chemistry II |
| MATH 136 | College Algebra |
| BIOL 121 | General Biology I |
| BIOT 100 | Survey of Biotechnology |
| BIOT 103 | Safety and Regulatory Compliance |
| BIOT 106 | Biotechnology Lab |
| XXXX XXX* | Humanities/ Social Science |
| IVYT XXX* | Life Skills Course |
| COMM 101 | Fund of Public Speaking |
| BIOT 201 | Cell Culture |
| BIOT 211 | Analytical Methods I |
| BIOT 212 | Analytical Methods II |
| BIOT 279 | Biotechnology Capstone |
| BIOT 280 | Biotechnology Internship |
| **TOTAL CREDIT HOURS = 63** | |

### Biotechnology, AAS

| | |
|---|---|
| CHEM 105 | General Chemistry I |
| CHEM 106 | General Chemistry II |
| MATH 136 | College Algebra |
| BIOL 121 | General Biology I |
| BIOT 106 | Biotechnology Lab |
| Elective | Humanities/ Social Science |
| IVYT XXX* | Life Skills Course |
| COMM 101 | Fund of Public Speaking |
| BIOT 201 | Cell Culture |
| BIOT 211 | Analytical Methods I |
| BIOT 212 | Analytical Methods II |
| BIOT 279 | Biotechnology Capstone |
| BIOT 280 | Biotechnology Internship |
| ENGL 111 | English Composition |
| TOTAL CREDIT HOURS = 60 | |

* XXX indicates an elective course chosen by the student

# Business Administration



**Potential Careers at Cook**

- Clerk
- Coordinator
- Project Manager
- Administrative Clerk
- Administrative Assistant
- Customer Service
- Sales Operations
- Accounts Payable/ Recievable Clerk
- Marketing Clerk
- Finance Clerk

## DEGREE OFFERINGS

### Associate of Science (AS) Degree

Prepares students for transfer to four-year colleges.

### Associate of Applied Science (AAS) Degree

Prepares students for careers in business administration. You can choose classes to focus your degree in:

#### Entrepreneurship

This focus area includes a Business Development course that is designed to help students develop a business plan.

## PROGRAM OVERVIEW

Whether you want to advance your career at Cook or to continue your education at a four-year institution, the Business Administration program can be a stepping stone on your path to success. The program provides outstanding career opportunities by giving you the skills you need to succeed.

## WHY CHOOSE BUSINESS ADMINISTRATION?

Organizations operate on business principles. A degree in business prepares you to work in a variety of roles. Ivy Tech offers four different degree options in Business Administration. Three of these options, the Technical Certificate, Associate of Applied Science, and Associate of Science, are also available through distance education. All business students are required to complete a common core of five classes that focus on business principles and concepts as well as fundamental accounting and computer skills necessary for successful employment or transfer to a four-year degree. Students seeking to apply for new roles within Cook will take additional professional and technical courses needed to successfully compete.

To learn more, contact your local Cook Human Resources team.

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## CERTIFICATES LEAD TO FURTHER ACADEMIC AND CAREER OPTIONS.

The Technical Certificate on the left leads toward the degree listed on the right.

# TECHNICAL CERTIFICATE

### Business Administration

| | |
|---|---|
| BUSN 101 | Introduction to Business |
| BOAT 207 or CINS 101 | Integrated Microsoft Office Applications or Introduction to Microcomputers |
| BUSN 105 | Principles of Management |
| ENGL 111 | English Composition |
| IVYT 114 | Student Success in Business |
| XXXX XXX* | Humanities/Social & Behavioral Sciences Elective |
| ACCT 101 | Financial Accounting |
| BUSN 120 | Business Ethics and Social Responsibility |
| MKTG 101 | Principles of Marketing |
| XXXX XXX* | Statewide Elective |
| XXXX XXX* | Statewide Elective |
| **TOTAL CREDIT HOURS = 31** | |

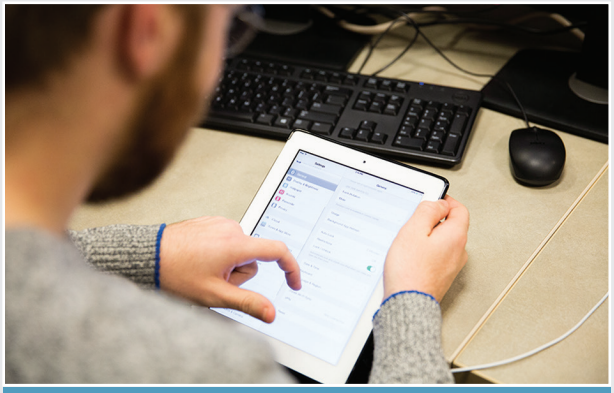
# DEGREE

### Business Administration, AAS

| | |
|---|---|
| BUSN 201 | Business Law |
| XXXX XXX* | Statewide Elective |
| ACCT 102 | Managerial Accounting |
| BUSN 202 | Human Resource Management |
| ECON XXX* | Economics Elective |
| MATH 123 | Quantitative Reasoning |
| BUSI 279 | School of Business Evaluation and Professional Development |
| XXXX XXX* | Life/Physical Sciences Elective |
| COMM 101 | Fundamentals of Public Speaking |
| BUSN 204 | Case Problems in Business |
| **TOTAL CREDIT HOURS = 60** | |

* XXX indicates an elective course chosen by the student

# Cyber Security/Information Assurance



## Potential Careers at Cook

- Security Specialist

## DEGREE OFFERINGS

### Associate of Applied Science (AAS) Degree

Prepares students for careers in cyber security/ information assurance.

### Associate of Science (AS) Degree

Prepares students for transfer to four-year colleges. The Associate of Science degree in Cyber Security/Information Assurance transfers to several public and colleges and universities in Indiana.

## PROGRAM OVERVIEW

The Cyber Security and Information Assurance program prepares students to work in areas related to information assurance and network and computer security. The program also contains material designed for students currently working in the computer industry and students advanced in computer knowledge who require specific knowledge of information and network-related risks and their avoidance and resolution.

To learn more, contact your local Cook Human Resources team.

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Cyber Security/Information Assurance

## CERTIFICATES LEAD TO FURTHER ACADEMIC AND CAREER OPTIONS.

Certificate paths lead toward degrees listed.

# CERTIFICATE
### Network Security

| | |
|---|---|
| CSIA 105 | Introduction to Cyber Security/ Information Assurance |
| CSIA 106 | Workforce Preparation: CompTIA Security+ Certification |
| CSIA 210 | Network Protocol Analysis |
| CSIA 215 | Perimeter Defense |
| INFM 109 | Informatics Fundamentals |
| ITSP 135 | Hardware/Software Support |
| NETI 105 | Network Fundamentals |
| NETI 115 | Routing and Switching |
| SVAD 111 | Linux and Virtualization Technologies Fundamentals |
| NETI 116 or NETI 106 | Cisco Certification |
| **TOTAL CREDIT HOURS = 27** | |

# TECHNICAL CERTIFICATE
### Cyber Security/Information Assurance

| | |
|---|---|
| ENGL 111 | English Composition |
| IVYT 115 | Student Success in Computing and Informatics |
| SDEV 120 | Computing Logic |
| ITSP 136 | Workplace Preparation: CompTIA A+ Certification |
| MATH 136 | College Algebra |
| **TOTAL CREDIT HOURS = 33** | |

# DEGREE
### Cyber Security/Information Assurance, AAS

| | |
|---|---|
| CSIA 135 | Digital Forensics |
| COMM 101 | Fundamentals of Public Safety |
| XXXX XXX* | Elective I |
| XXXX XXX* | Elective II |
| CSIA 225 | Ethical Hacking |
| CPIN 269 | Computing and Informatics Project Management |
| CPIN 279 | Computing and Informatics Exploration and Evaluation |
| XXXX XXX* | Humanities/Social & Behavioral Sciences Elective |
| XXXX XXX* | Life/Physical Sciences Elective |
| XXXX XXX* | Elective III |
| **TOTAL CREDIT HOURS = 60** | |

# CERTIFICATE
### Digital Forensics

| | |
|---|---|
| CSIA 105 | Introduction to Cyber Security/ Information Assurance |
| CSIA 106 | Workforce Preparation: CompTIA Security+ Certification |
| CSIA 135 | Digital Forensics |
| CSIA 210 | Network Protocol Analysis |
| CSIA 225 | Ethical Hacking |
| CSIA 235 | Advanced Digital Forensics |
| INFM 109 | Informatics Fundamentals |
| ITSP 135 | Hardware/Software Support |
| ITSP 136 | Workplace Preparation: CompTIA A+ Certification |
| NETI 105 | Network Fundamentals |
| **TOTAL CREDIT HOURS = 27** | |

# TECHNICAL CERTIFICATE
### Cyber Security/Information Assurance

| | |
|---|---|
| ENGL 111 | English Composition |
| IVYT 115 | Student Success in Computing and Informatics |
| SDEV 120 | Computing Logic |
| NETI 115 | Routing and Switching |
| SVAD 111 | Linux and Virtualization Technologies Fundamentals |
| MATH 136 | College Algebra |
| **TOTAL CREDIT HOURS = 33** | |

# DEGREE
### Cyber Security/Information Assurance, AAS

| | |
|---|---|
| CSIA 215 | Perimeter Defense |
| COMM 101 | Fundamentals of Public Safety |
| XXXX XXX* | Elective I |
| XXXX XXX* | Elective II |
| CPIN 269 | Computing and Informatics Project Management |
| CPIN 279 | Computing and Informatics Exploration and Evaluation |
| XXXX XXX* | Humanities/Social & Behavioral Sciences Elective |
| XXXX XXX* | Life/Physical Sciences Elective |
| **TOTAL CREDIT HOURS = 60** | |

* XXX indicates an elective course chosen by the student

# Hospitality Administration

**Potential Careers at Cook/French Lick/West Baden**

- Chefs (Executive, Banquet, Pastry, Sous, Chef De Partie)
- Restaurant/Kitchen Manager
- Food & Beverage Manager
- Guest Services Manager
- Human Resources & Training
- IT- Technology
- Catering/Events
- Sales & Marketing

## DEGREE OFFERINGS

### Associate of Applied Science (AAS) Degree

Prepares students for careers in hospitality administration. You can choose classes to concentrate your degree in:

#### Culinary Arts

Ivy Tech's excellent educational kitchen enables us to train you for entry-level positions, such as first, second, or sauté cooks, sous chefs, and garde mangers. The goal is to send you into the food service industry equipped with manual, theoretical, and technical competence.

#### Baking and Pastry

This area of study is tailored to prepare a graduate to satisfy industry demands for bakers and pastry chefs with the necessary skills and experience and American Culinary Federation Standards for Baker certification.

## PROGRAM OVERVIEW

The Hospitality Administration program provides the skills to be successful in the hospitality industry. This exciting, fulfilling career can have advancement opportunities for those who possess the passion and willingness to work hard and serve others.

## OUR GRADUATES

Our Baking and Pastry and Culinary Arts graduates are trained according to industry demands and American Culinary Federation Standards for professional certification.

To learn more, contact your local Cook Human Resources team.

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## CERTIFICATES LEAD TO FURTHER ACADEMIC AND CAREER OPTIONS.

Certificate paths lead toward degrees listed.

# CERTIFICATE
### Culinarian

| | |
|---|---|
| HOSP 101 | Sanitation and First Aid |
| HOSP 102 | Basic Food Theory and Skills |
| HOSP 103 | Soups, Stocks, and Sauces |
| HOSP 104 | Nutrition |
| HOSP 105 | Introduction to Baking |
| HOSP 108 | Human Relations Management |
| **TOTAL CREDIT HOURS = 16** | |

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# TECHNICAL CERTIFICATE
### Culinary Arts

| | |
|---|---|
| ENGL 111 | English Composition |
| IVYT 116 | Student Success in Public Service |
| HOSP 106 | Pantry and Breakfast |
| HOSP 200 | Meat and Seafood Fabrication |
| HOSP 207 | Customer Service |
| MATH 123 | Quantitative Reasoning |
| **TOTAL CREDIT HOURS = 32** | |

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# DEGREE
### Hospitality Administration: Culinary Arts, AAS

| | |
|---|---|
| XXXX XXX* | Humanities/Social Behavioral Elective |
| COMM 101 or COMM 102 | Fundamentals of Public Speaking or Introduction to Interpersonal Communication |
| HOSP 201 | Hospitality Purchasing and Cost Control |
| HOSP 213 | Classical Pastries and Chocolates |
| XXXX XXX* | Life/Physical Science Elective |
| HOSP 203 | Menu, Design, and Layout |
| HOSP 210 | Classical Cuisine |
| HOSP 212 | Garde Manger |
| HOSP 280 | Internship |
| HOSP 211 or HOSP 221 | Specialized Cuisine or Catering Administration |
| **TOTAL CREDIT HOURS = 60** | |

# CERTIFICATE
### Pastry Culinarian

| | |
|---|---|
| HOSP 101 | Sanitation and First Aid |
| HOSP 102 | Basic Food Theory and Skills |
| HOSP 104 | Nutrition |
| HOSP 108 | Human Relations Management |
| HOSP 201 | Hospitality Purchasing and Cost Control |
| HOSP 280 | Internship |
| MATH 123 | Quantitative Reasoning |
| **TOTAL CREDIT HOURS = 17** | |

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# TECHNICAL CERTIFICATE
### Baking and Pastry Arts

| | |
|---|---|
| ENGL 111 | English Composition |
| IVYT 116 | Student Success in Public Service |
| HOSP 105 | Introduction to Baking |
| HOSP 111 | Yeast Breads |
| HOSP 113 | Baking Science |
| HOSP 208 | Cakes, Icing, and Fillings |
| HOSP 213 | Classical Pastries and Chocolates |
| HOSP 270 | Bakery Merchandising |
| **TOTAL CREDIT HOURS = 32** | |

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# DEGREE
### Hospitality Administration: Baking and Pastry Arts, AAS

| | |
|---|---|
| XXXX XXX* | Humanities/Social Behavioral Elective |
| COMM 101 or COMM 102 | Fundamentals of Public Speaking or Introduction to Interpersonal Communication |
| HOSP 207 | Customer Service |
| HOSP 203 | Menu, Design, and Layout |
| XXXX XXX* | Life/Physical Science Elective |
| HOSP 209 | Advanced Decorating and Candies |
| HOSP 230 or HOSP 232 | Wedding Cake Production or Plated Desserts and Pastry Salon Work |
| HOSP 280 | Internship |
| HOSP 211 or HOSP 221 | Specialized Cuisine or Catering Administration |
| **TOTAL CREDIT HOURS = 60** | |

* XXX indicates an elective course chosen by the student

# Information Technology Support

**Potential Careers at Cook**

- Support Services
- Help Desk
- Phone Support

## DEGREE OFFERINGS

### Associate of Applied Science (AAS) Degree

Prepares students for careers in information technology support.

## PROGRAM OVERVIEW

The Information Technology Support program provides students with knowledge and skills needed to deploy, troubleshoot, and support stand-alone and networked computing systems and technology. Courses are designed to provide both technical and soft skills needed to work with computer users. The program is designed to prepare students for a professional career in the computer technology field. Students will learn problem-solving techniques for practical computer-related issues; skills in computing technology support similar to that in a helpdesk environment; the soft skills needed to interact with and support a diversity of users; the ability to diagnose problems and walk users through resolving these issues; skills in helping users with computer-related issues; and to supporting/repairing computer equipment and training others in using computing technology.

To learn more, contact your local Cook Human Resources team.

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## CERTIFICATES LEAD TO FURTHER ACADEMIC AND CAREER OPTIONS.

Certificate paths lead toward degrees listed.

# CERTIFICATE
## Help Desk

| | |
|---|---|
| DBMS 110 | Database Design and Management |
| INFM 109 | Informatics Fundamentals |
| ITSP 135 | Hardware/Software Support |
| ITSP 136 | Workplace Preparation: CompTIA A+ Certification |
| NETI 105 | Network Fundamentals |
| ITSP 165 | Frontline IT Customer Service |
| ITSP 225 | Help Desk Software and Technology Support |
| SVAD 121 | Enterprise Computing |
| **TOTAL CREDIT HOURS = 23** | |

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# TECHNICAL CERTIFICATE
## Information Technology Support

| | |
|---|---|
| ENGL 111 | English Composition |
| IVYT 115 | Student Success in Computing and Informatics |
| CSIA 105 | Introduction to Cyber Security/ Information Assurance |
| SDEV 120 | Computing Logic |
| SVAD 111 | Linux and Virtualization Technologies Fundamentals |
| **TOTAL CREDIT HOURS = 30** | |

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# DEGREE
## Information Technology Support, AAS

| | |
|---|---|
| MATH 123 | Quantitative Reasoning |
| COMM 101 | Fundamentals of Public Safety |
| CPIN 239 | Systems Analysis and Design |
| ITSP 215 | Mobile/Wireless Computing Support |
| CPIN 269 | Computing and Informatics Project Management |
| CPIN 279 | Computing and Informatics Exploration and Evaluation |
| XXXX XXX* | Humanities/Social & Behavioral Sciences Elective |
| XXXX XXX* | Life/Physical Sciences Elective |
| XXXX XXX* | Elective I |
| XXXX XXX* | Elective II |
| XXXX XXX* | Elective III |
| **TOTAL CREDIT HOURS = 60** | |

# CERTIFICATE
## Information Technology Support

| | |
|---|---|
| CSIA 105 | Introduction to Cyber Security/Information Assurance |
| INFM 109 | Informatics Fundamentals |
| ITSP 135 | Hardware/Software Support |
| ITSP 136 | Workplace Preparation: CompTIA A+ Certification |
| ITSP 215 | Mobile/Wireless Computing Support |
| NETI 105 | Network Fundamentals |
| NETI 115 | Routing and Switching |
| SVAD 121 | Enterprise Computing |
| CSIA 106 or NETI 114 or NETI 116 | Workplace Preparation: CompTIA Security+ Certification **or** Workforce Preparation: Cisco Certified Entry Networking Technician (CCENT) Certification **or** Workforce Preparation: Cisco Certified Entry Networking Technician (CCENT) Certification |
| **TOTAL CREDIT HOURS = 24** | |

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# TECHNICAL CERTIFICATE
## Information Technology Support

| | |
|---|---|
| ENGL 111 | English Composition |
| IVYT 115 | Student Success in Computing and Informatics |
| SDEV 120 | Computing Logic |
| ITSP 165 | Frontline IT Customer Service |
| SVAD 111 | Linux and Virtualization Technologies Fundamentals |
| **TOTAL CREDIT HOURS = 30** | |

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# DEGREE
## Information Technology Support, AAS

| | |
|---|---|
| MATH 123 | Quantitative Reasoning |
| COMM 101 | Fundamentals of Public Safety |
| CPIN 239 | Systems Analysis and Design |
| DBMS 110 | Database Design and Management |
| CPIN 269 | Computing and Informatics Project Management |
| CPIN 279 | Computing and Informatics Exploration and Evaluation |
| XXXX XXX* | Humanities/Social & Behavioral Sciences Elective |
| XXXX XXX* | Life/Physical Sciences Elective |
| XXXX XXX* | Elective I |
| XXXX XXX* | Elective II |
| XXXX XXX* | Elective III |
| **TOTAL CREDIT HOURS = 60** | |

* XXX indicates an elective course chosen by the student

# Network Infrastructure

**Potential Careers at Cook**

- Network Security
- Infrastructure

## DEGREE OFFERINGS

### Associate of Applied Science (AAS) Degree

Prepares students for careers in network infrastructure.

## PROGRAM OVERVIEW

The Network Infrastructure program is dedicated to enhancing students' knowledge and practical skills in relevant infrastructure design and implementation in all areas of digital communication and connectivity. The program focuses on current and relevant enterprise-level computer network configuration, management, and security outcomes, including cabling, radio frequency troubleshooting and behaviors, routing and switching, theoretical communications models, dedicated storage networks, voice over internet protocol, network security concepts/best-practices and industry certification preparation. Students earning this degree will have the technical knowledge and skills to work, and play an administrative role, in any field requiring professionally designed, implemented, or maintained network infrastructures.

To learn more, contact your local Cook Human Resources team.

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## CERTIFICATES LEAD TO FURTHER ACADEMIC AND CAREER OPTIONS.

Certificate path leads toward degree listed.

# TECHNICAL CERTIFICATE

### Network Infrastructure

| | |
|---|---|
| ENGL 111 | English Composition |
| IVYT 115 | Student Success in Computing and Informatics |
| ITSP 135 | Hardware/Software Support |
| INFM 109 | Informatics Fundamentals |
| MATH 123 | Quantitative Reasoning |
| ITSP 136 | Workplace Preparation: CompTIA A+ Certification |
| SDEV 120 | Computing Logic |
| SVAD 111 | Linux and Virtualization Technologies Fundamentals |
| SVAD 121 | Enterprise Computing |
| **TOTAL CREDIT HOURS = 32** | |

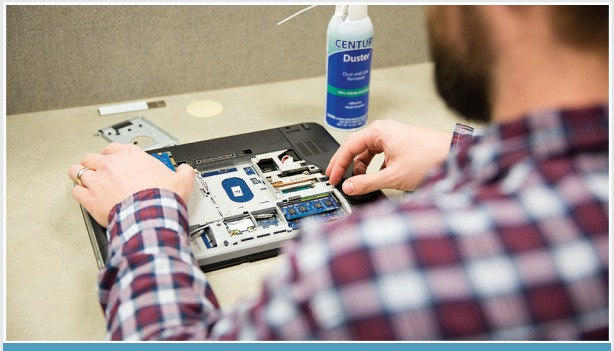
# DEGREE

### Network Infrastructure, AAS

| | |
|---|---|
| NETI 205 | Scaling Networks |
| COMM 101 | Fundamentals of Public Safety |
| NETI XXX* | Elective I |
| NETI XXX* | Elective II |
| NETI XXX* | Elective III |
| CPIN 269 | Computing and Informatics Project Management |
| CPIN 279 | Computing and Informatics Exploration and Evaluation |
| XXXX XXX* | Humanities/Social & Behavioral Sciences Elective |
| XXXX XXX* | Life/Physical Sciences Elective |
| NETI XXX* | Elective IV |
| **TOTAL CREDIT HOURS = 60** | |

* XXX indicates an elective course chosen by the student

# Software Development



**Potential Careers at Cook**

- jBASE Development

## DEGREE OFFERINGS

### Associate of Applied Science (AAS) Degree

Prepares students for careers in software development.

### Associate of Science (AS) Degree

Prepares students for transfer to four-year colleges. The AS degree in Software Development transfers to several public and colleges and universities in Indiana.

## PROGRAM OVERVIEW

The Software Development program prepares students to develop, test, implement, and maintain the software applications that people use every day with their computers, mobile devices, game consoles, and other technological devices. The Software Development program includes relevant programming/scripting languages, web management/development software, and web server administration. The Software Development program prepares students to start a career in the fast-changing world of information technology with practical knowledge and skills for an entry-level position in software development.

To learn more, contact your local Cook Human Resources team.

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## CERTIFICATES LEAD TO FURTHER ACADEMIC AND CAREER OPTIONS.

Certificate path leads toward degree listed.

# CERTIFICATE

### Web Foundation

| | |
|---|---|
| DBMS 110 | Database Design and Management |
| INFM 109 | Informatics Fundamentals |
| NETI 100 | Network Communications |
| SDEV 120 | Computing Logic |
| SDEV 140 | Introduction to Software Development |
| SDEV 153 | Web Site Development |
| **TOTAL CREDIT HOURS = 18** | |

# TECHNICAL CERTIFICATE

### Software Development

| | |
|---|---|
| ENGL 111 | English Composition |
| IVYT 115 | Student Success in Computing and Informatics |
| ITSP 135 | Hardware/Software Support |
| SDEV 264 | Mobile Application Development |
| XXXX XXX* | Elective I |
| **TOTAL CREDIT HOURS = 32** | |

# DEGREE

### Software Development, AAS

| | |
|---|---|
| MATH 136 | College Algebra |
| COMM 101 | Fundamentals of Public Safety |
| CPIN 239 | Systems Analysis and Design |
| SDEV 250 | Client-Side Scripting Languages and Tools |
| SDEV 265 | Software Development Projects |
| CPIN 269 | Computing and Informatics Project Management |
| CPIN 279 | Computing and Informatics Exploration and Evaluation |
| XXXX XXX* | Humanities/Social & Behavioral Sciences Elective |
| XXXX XXX* | Life/Physical Sciences Elective |
| XXXX XXX* | Elective II |
| **TOTAL CREDIT HOURS = 60** | |

* XXX indicates an elective course chosen by the student