Welcome to the 2022-23 Program Catalog for Ivy Tech Community College, Valparaiso Campus! We are excited to be able to show you the wide range of programs offered at our campus, which includes our sites in Michigan City and La Porte as well. I have served the Valparaiso campus as chancellor for several years and have seen first-hand how passionate and dedicated our faculty and staff are to prepare our students with the skills and confidence needed for the workforce today. At Ivy Tech, we are all educators, and we offer specialized programs that energize each person who embarks on a scholastic journey here at Ivy Tech.

The possibilities are limitless for the Ivy Tech graduate. Alumni across the state and beyond have made great strides in the fields of nursing, advanced manufacturing, cyber security, surgical technology, computer science, engineering, business, criminal justice, design technology, human services, medical assisting, software development, education, paramedic science, cloud technologies, psychology and more. We are also proud to be the most affordable option in higher education in the State of Indiana. Our Ivy Plus program, which will continue into the 2022-23 academic year, reduces the cost of attending Ivy Tech with frozen tuition, free textbooks and free classes after twelve credit hours per semester.

Although we have all faced challenges due to the COVID-19 pandemic, there has never been a better time to start or continue your postsecondary education. Students at Ivy Tech come from all backgrounds. It’s never too late nor too early to start your story at Ivy Tech Community College. Our faculty and staff are driven to provide the highest quality education at the most affordable cost. We hope to see you soon at the campus!
The Economic Value of Ivy Tech Community College Valparaiso

EXECUTIVE SUMMARY

IMPACTS CREATED BY IVY TECH VALPARAISO IN FY 2018-19

$17.8 million
Operations Spending Impact

$1.8 million
Student Spending Impact

$54.2 million
Alumni Impact

$73.8 million
TOTAL IMPACT
– OR –
1,204
JOBS SUPPORTED

STUDENT PERSPECTIVE

Benefit-cost ratio | Rate of return
--- | ---
4.3 | 18.2%

$112.2 million
Present value benefits

$26.3 million
Present value costs

$85.9 million
Net present value

STUDENTS SEE A HIGH RATE OF RETURN FOR THEIR INVESTMENT IN IVY TECH VALPARAISO

18.2%
Average annual return for Ivy Tech Valparaiso students

9.9%
Stock market 30-year average annual return

0.8%
Interest earned on savings account (National Rate Cap)

TAXPAYER PERSPECTIVE

Benefit-cost ratio | Rate of return
--- | ---
1.9 | 5.3%

$32.2 million
Present value benefits

$16.9 million
Present value costs

$15.3 million
Net present value

SOCIAL BENEFITS IN INDIANA FROM IVY TECH VALPARAISO

$445.5 million
Present value benefits

$43.3 million
Present value costs

$402.2 million
Net present value

SOCIAL PERSPECTIVE

Benefit-cost ratio | Rate of return
--- | ---
10.3 | n/a*

$445.5 million
Present value benefits

$43.3 million
Present value costs

$402.2 million
Net present value

* The rate of return is not reported for the social perspective because the beneficiaries of the investment are not necessarily the same as the original investors.

IVY TECH VALPARAISO IMPACTS BY INDUSTRY (JOBS SUPPORTED)

<table>
<thead>
<tr>
<th>Industry</th>
<th>Jobs Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Care &amp; Social Assistance</td>
<td>146</td>
</tr>
<tr>
<td>Retail Trade</td>
<td>136</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>81</td>
</tr>
<tr>
<td>Government, Non-Education</td>
<td>68</td>
</tr>
<tr>
<td>Construction</td>
<td>63</td>
</tr>
</tbody>
</table>

Social savings
$10.1 million

Total benefits to society

Added income
$435.4 million

Social savings

$435.4 million

Added income

$10.1 million

IVY TECH COMMUNITY COLLEGE
Valparaiso Campus
Michigan City & La Porte Sites

3100 Ivy Tech Drive, Valparaiso, IN 46383
3714 Franklin Street, Michigan City, IN 46360
1900 Whirlpool Drive, La Porte, IN 46350
Phone: (219) 464-8514

FAST FACTS
Enrollment: 4,451 (AY 2020-21)
Counties Served: Porter, La Porte, Starke, Jasper, Pulaski
Employees: 51 FT Faculty & 74 PT Faculty; 62 FT Staff & 35 PT Staff
Number of Programs: 38

CHANCELLOR’S CABINET
Aco Sikoski, Chancellor
Lori Staack, Executive Assistant
Lori Plank, Vice Chancellor of Academic Affairs
Dr. Countance Anderson, Vice Chancellor of Student Success
Matt Crawford, Vice Chancellor of Enrollment Services
Patti Shields, Executive Director of Career Coaching & Employer Connections
Olivia Zdraveski, Executive Director of Human Resources
Cindy Hall, Executive Director of Resource Development
Brooke Lichtenbarger, Interim Executive Director of Finance
Marcos Rodriquez, Michigan City & La Porte Site Director
Eric Zavinski, Director of Marketing & Communications
Tom Mize, Director of Facilities
William Brookshire III, Public Safety & Emergency Preparedness Campus Lead
Bob Clark, Director of IT
Kelly Daubek, Campus Diversity Lead

DEMOGRAPHICS: AY 2021-2022

Enrollment Top 5 Counties: Porter – 1,888; Lake County – 986; La Porte – 821; Jasper – 198; Starke – 160

Valparaiso Campus Students:

<table>
<thead>
<tr>
<th>GENDER</th>
<th></th>
<th>RACE</th>
<th></th>
<th>AGE</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>White</td>
<td>3,200</td>
<td>19 and under</td>
<td>1,057</td>
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<tr>
<td>Female</td>
<td>2,762</td>
<td>Black/African Amer.</td>
<td>399</td>
<td>20-24</td>
<td>1,428</td>
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<tr>
<td>Male</td>
<td>1,527</td>
<td>Multiracial</td>
<td>246</td>
<td>25-34</td>
<td>1,167</td>
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<td>Unreported</td>
<td>162</td>
<td>Hispanic/Latino</td>
<td>176</td>
<td>35-39</td>
<td>274</td>
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<tr>
<td></td>
<td></td>
<td>Asian</td>
<td>42</td>
<td>40 and above</td>
<td>525</td>
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<tr>
<td></td>
<td></td>
<td>Amer. Indian/Alaskan</td>
<td>19</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Pacific Islander</td>
<td>6</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Not Available</td>
<td>363</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
WHAT MAKES OUR CAMPUS UNIQUE?

- Major industrial technology and manufacturing partners: Cosmyfy, Sullair, Cleveland Cliffs, Sullivan Palatek, Precoat Metals, Shoremet, Chester, NITCO, Methodist Hospitals, NIPSCO, and more
- Strong ties to higher education partners: Valparaiso University, Purdue University Northwest, and Indiana University Northwest
- Campus plays an integral role in the Northwest Indiana Forum Regional Economic Development Organization, a regional strategy for economic transformation in the second largest economy in Indiana
- An engaged board of trustees that helps develop partnerships with community stakeholders so that our students can thrive post-graduation

WHAT WE’RE KNOWN FOR:
The Valparaiso campus is home to highly-credentialed faculty and staff who are passionate about helping students succeed beyond the classroom. Some of our recent accomplishments include:

- Opening a state-of-the-art Cyber Security Operations Center & Awareness Lab with the help of State of Indiana officials and Cyberbit, a software company specializing in preparing students for the workforce by teaching them to recognize and fend off cyber attacks
- Collaborating with Italian cosmetics company AllMyFy, with students helping to design the brand of Duneland Beauty, a new line of beauty products inspired by Northwestern Indiana
- Maintaining NCLEX-RN pass rates above the 80% benchmark for six years running
- Being a pilot campus for Ivy Tech’s new Career Coaching and Employer Connections team
- Our School of Business founding its own chapter of Kappa Beta Delta (Delta Omega chapter); Kappa Beta Delta is the international honor society for business programs accredited by ACBSP
- Our Energy Technology program having received the NIPSCO Luminary Education Award in 2019
- Becoming accredited by the Association of Technology, Management and Applied Engineering in 2020
- Our Cyber Security & Information Assurance program having received the Award of Excellence in Cyber Security from the Department of Education and placing second in the nation for the US Cyber Challenge 2020 National Cyber Security Competition
- Our Network Infrastructure Program having received the Cisco Partnership Award in 2020
- The Indiana Society of Medical Assistants awarding our Michigan City Site with the 2020 Eva Irwin CMA (AAMA) Medical Assistant Program Fund Award
- Our Paramedic Science program having received full accreditation from CAAHEP in July 2020; the Valparaiso campus has since expanded offerings to meet our students’ needs for EMT & Paramedic Science, including the creation of a Paramedic to ASN track
- Having 100% pass rates in our CNA, Pharmacy, EKG and Surgical Technology programs
Welcome to Ivy Tech!
Vice Chancellor of Academic Affairs
Lori Plank

We are honored that you are considering a postsecondary education at Ivy Tech. Enrolling in one of our programs leads to a concrete career path. Within these pages, you will discover what career opportunities are available once you graduate and what you can expect to earn once you land in the field of your choosing.

Undecided? This catalog is a great resource that will help you learn more about the dozens of programs we offer at the Valparaiso campus. You can read up on program descriptions and see for yourself what kinds of classes you'll be taking in a particular program at Ivy Tech.

At the Valparaiso campus, we have thirty-eight programs offered throughout our seven schools. As you will see, many of these programs offer numerous concentrations that will allow you to specialize your credentials. Each pathway will be laid out for you in the following pages.

In this catalog, each school has a tab so that you can easily reference your program of interest. Behind each tab, programs are alphabetized within their school. On the left pages, we are excited to share with you the most important information, the kind of facts that will let you know if a particular program leads to a career path that is right for you. We have included program descriptions, career opportunities, salary outlook and information on how to apply on every program front page.

On the right pages, you'll be able to see the exact course curriculum you can expect if you apply and start classes at Ivy Tech this fall. Many of our programs offer certificates, technical certificates and Associate Degrees for our graduates. We have established transfer programs with many of the four-year institutions across the State of Indiana, meaning it's fully possible to start your postsecondary education at Ivy Tech and continue learning more after graduation. We encourage students to further their education at our partner schools, which include but are not limited to Indiana University, Purdue University, Indiana State University, Ball State University and Valparaiso University.

Most importantly, relevant contact information is included for each program, allowing you to apply now if you're ready or ask those in the know the questions you may have. Enjoy this showcase of what we have to offer. We hope to see you soon!
Welcome to the School of Advanced Manufacturing, Engineering & Applied Science!
Dean Jennifer Furmanek

What We're Known For

The School of Advanced Manufacturing, Engineering, & Applied Science offers a variety of exceptional programs and concentrations. If you are a student who loves to learn new things in technology, experiment and tinker with equipment, see the impact of creative problem solving, or get enjoyment from seeing how things work, then this school is for you! We have programs in Industrial Technology, HVAC, Welding, Machine Tool Technology, Design, Engineering and Engineering Technologies, Energy, Automation & Robotics, and Agriculture.

Many of these programs have multiple concentrations that you can choose from to meet your personality and passion, creating over 20 different pathways a student can take. Additionally, most programs are built with embedded certifications that are highly regarded in industry. Not only will you leave Ivy Tech with a credentialed degree, but you may also earn several possible certifications as well.

The Valparaiso Campus has three state-of-the-art labs that are designed to adapt to the creative and innovative needs of our technology students. The Flex Lab offers training for future manufacturers seeking careers in advanced manufacturing, industrial maintenance, machine tool technology, and energy programs such as our electric line program in which students learn energy fundamentals, climbing, transmission of power, and the necessary electrical skills to be a Power Line Worker. Our Michigan City and La Porte sites also have labs that offer our Industrial Technology courses for our La Porte County students. Ask me for a tour today! My contact information is on the bottom of each front page of our program sheets.
CAREER OPPORTUNITIES

What can I do with this major?

- Automation Technician
- Controls Engineer
- Service Technician
- Repair Technician

SALARY OUTLOOK

$58,991

*Data is Average Annual Salary Specific to Indiana

EARN MORE & IMPROVE YOUR SKILLS

For a good-paying job, invest in your education! With an associate degree from Ivy Tech Community College, you’ll earn an average $8,000 more each year than you would with just a high school diploma.

APPLY NOW FOR FREE

ivytech.edu/ivyexplore
Valparaiso-Admissions@ivytech.edu
(219) 476-4701

YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS

Dean:
Jennifer Furmanek: jfurmanek@ivytech.edu; (219) 476-4740

Academic Advisor:
Ashley Witmer: awitmer4@ivytech.edu; (219) 476-4753

Department Chair:
Mark Antrim: mantrim3@ivytech.edu; ext. 3119

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
## 8-WEEK SESSIONS

### FALL Term 1
- **ADMF 101:** Key Principles of Advanced Manufacturing  
  (3 cr) CT
- **INDT 113:** Industrial Electrical I  
  (3 cr) CT
- **IVYT 113:** Student Success  
  (1 cr) TC
- **MATH 122:** Applied Technical Mathematics  
  (3 cr) TC
  16 weeks

### FALL Term 2
- **ADMF 102:** Technology in Advanced Mfg.  
  (3 cr) CT
- **ADMF 122:** Industrial Electrical II  
  (3 cr) TC

### SPRING Term 3
- **INDT 203:** Machine Maintenance  
  (3 cr) CT
- **INDT 104:** Fluid Power I  
  (3 cr) TC Elective*
- **INDT 205:** Programmable Automation Controls I  
  (3 cr) CT
  16 weeks

### SPRING Term 4
- **ADMF 112:** Mechanical Drives I  
  (3 cr) CT
- **ADMF 222:** Fluid Power II  
  (3 cr) CT

### SUMMER Term 5
- **ADMF 202:** Digital Funds and Siemens Automation Controllers  
  (3 cr) CT
- **ADMF 116:** Industrial Robotics I  
  (3 cr) AAS

---

### Earned
- **Mechatronics Certificate**  
  (27 Credit Hours)
- **Automation & Robotics Technical Certificate**  
  (34 Credit Hours)

### FALL Term 6
- **ADMF 206:** Industrial Robotics II  
  (3 cr) AAS
- **INDT 206:** Programmable Automation Controls II  
  (3 cr) AAS
- **INDT 211:** Industrial Process Control & Inst.  
  (3 cr) AAS Elective*
  16 weeks

### FALL Term 7
- **ADMF 106:** Supervision and Teams at Work  
  (3 cr) AAS Elective*
- **INDT 212:** Programmable Automation Controls III  
  (3 cr) AAS

### SPRING Term 8
- **ENGL 111:** English Comp  
  (3 cr) AAS
- **INDT 103:** Motors and Motor Controls  
  (3 cr) AAS
- **INDT 260:** Projects in Manufacturing  
  (3 cr) AAS Elective*
  16 weeks

### SPRING Term 9
- **INDT 204:** Electrical Circuits  
  (3 cr) AAS
- **INDT 279:** Capstone  
  (1 cr) AAS

### SUMMER Term 10
- **COMM 104:** Workplace Communications  
  (3 cr) AAS

### FALL Term 11 & 12
- **SCIN 101:** Science of Energy Generation  
  (4 cr) AAS Elective*  
  16 weeks
- **PSYC 101:** Intro to Psychology  
  (3 cr) AAS Elective*

---

* Earned: Advanced Automation & Robotics Technology  
  Associate in Applied Science  
  (75 Credit Hours)

*Suggested electives are stated.*
CAREER OPPORTUNITIES

What can I do with this major?

• Livestock Production
• Agribusiness
• Agronomy
• Agriculture Equipment

Job opportunities are widely available. Work for companies like:

• John Deere
• Case IH
• Fair Oaks Farms
• Independent Farmers
• And more!

SALARY OUTLOOK

$37,194

*Data is Average Annual Salary Specific to Indiana

EARN MORE & IMPROVE YOUR SKILLS

For a good-paying job, invest in your education! With an associate degree from Ivy Tech Community College, you’ll earn an average $8,000 more each year than you would with just a high school diploma.

APPLY NOW FOR FREE

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[Valparaiso-Admissions@ivytech.edu](mailto:Valparaiso-Admissions@ivytech.edu)
(219) 476-4701

YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS

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The Agriculture Program at Ivy Tech Community College engages students in hands-on activities in and outside of classrooms while preparing them for real-world agriculture careers. Students are exposed to various areas in the agriculture industry through field experiences and professional guest speaker presentations. Learn more here: [https://youtu.be/F7uiUebc9vQ](https://youtu.be/F7uiUebc9vQ)

2022-23 Campus Main Line: (219) 464-8514
# Agriculture Grain Systems

**Completion Guide**

**8-WEEK SESSIONS**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td><strong>FALL Term 2</strong></td>
<td><strong>SPRING Term 3</strong></td>
<td><strong>SPRING Term 4</strong></td>
</tr>
<tr>
<td>INDT 113: Industrial Electrical I (3 cr)</td>
<td>INDT 114: Introduction to Welding (3 cr)</td>
<td>INDT 103: Motor and Motor Controls (3 cr)</td>
<td>INDT 127: Grain Systems (3 cr)</td>
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<tr>
<td>AGRI 128: Agricultural Safety (3 cr)</td>
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<td>AGRI 127: Grain Systems (3 cr)</td>
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</tr>
<tr>
<td></td>
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</tbody>
</table>

**16 weeks**

---

**Grain Systems Certificate (18 Credit Hours)**

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
Designing a good building involves both an artistic feel and an engineering mind. In our classes, you will learn about materials, space planning, structural design as well as historical and theoretical concepts in architecture. Our studio class always completes a real-life project to sharpen students’ design skills and make the world a better place. We use the latest BIM software to allow for an easy transition into industry upon graduation.

**SALARY OUTLOOK**

$62,492

*Data is Average Annual Salary Specific to Indiana

**EARN MORE & IMPROVE YOUR SKILLS**

For a good-paying job, invest in your education! With an associate degree from Ivy Tech Community College, you’ll earn an average $8,000 more each year than you would with just a high school diploma.

**APPLY NOW FOR FREE**

[ivytech.edu/ivyexplore](http://ivytech.edu/ivyexplore)

Valparaiso-Admissions@ivytech.edu

(219) 476-4701

**YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS**

Dean:
Jennifer Furmanek: jfurmanek@ivytech.edu; (219) 476-4740

Academic Advisor:
Ashley Witmer: awitmer4@ivytech.edu; (219) 476-4753

Department Chair:
Jason Gordon: jgordon50@ivytech.edu; ext. 3055

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
## DESIGN TECHNOLOGY ARCHITECTURAL DESIGN
### Completion Guide

### 8-WEEK SESSIONS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td><strong>FALL Term 2</strong></td>
<td><strong>SPRING Term 3</strong></td>
<td><strong>SPRING Term 4</strong></td>
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<tr>
<td>DESN 101: Introduction to Design Technology (3 cr) CT</td>
<td>DESN 113: Student Success in Technology (1 cr) TC</td>
<td>COMM 104: Workplace Communication (3 cr) TC</td>
<td>DESN 115: BIM Architecture (3 CH) CT</td>
</tr>
<tr>
<td></td>
<td>IVYT 113:</td>
<td>DESN 109: Construction Materials and Specifications (3 cr) CT</td>
<td>DESN 227: Geometric Dimensions &amp; Tolerance (3 cr) AAS Elective*</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>FALL Term 5</strong></td>
<td><strong>FALL Term 6</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>DESN 130: Fundamental Computer Graphics (3 cr) AAS Elective*</td>
<td>DESN 204: Architectural Design II (3 cr) CT</td>
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<tr>
<td><strong>FALL Term 5</strong></td>
<td><strong>FALL Term 6</strong></td>
<td>DESN 205: Architectural Design I (3 cr) CT</td>
<td>DESN 209: Construction Materials and Specifications (3 cr) CT</td>
</tr>
<tr>
<td>DESN 210: Surveying</td>
<td>ENGL 111: English Comp (3 cr) AAS</td>
<td>DESN 218: Introduction to Statics and Strength of Materials</td>
<td>DESN 210: Surveying (3 cr) AAS Elective*</td>
</tr>
<tr>
<td>(3 cr) AAS Elective*</td>
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<td><strong>SPRING Term 7</strong></td>
<td><strong>SPRING Term 8</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>DESN 211: BIM Design I (3 cr) AAS</td>
<td>DESN 279: Design Technology Capstone (1 cr) AAS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SCIN 101: Science of Energy Generation (4 cr) AAS Elective*</td>
<td>DESN 217: Design Process and Applications (3 cr) AAS</td>
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<tr>
<td></td>
<td></td>
<td><strong>EARNED</strong></td>
<td><strong>EARNED</strong></td>
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<tr>
<td><strong>EARNED</strong></td>
<td><strong>EARNED</strong></td>
<td>Certificate (18 Credit Hours)</td>
<td>Associate of Applied Science (60 Credit Hours)</td>
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<td>Technical Certificate (31 Credit Hours)</td>
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</tr>
</tbody>
</table>

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modality.
Working with the Design Technology department has been a wonderful experience on many fronts. As a European company, we have a lot to understand about the U.S. design and marketing world, and the choice to work with Ivy Tech’s students to approach that world has brought concrete results. Their ideas and freshness, with our knowledge and experience in the natural cosmetic industry, has led to the birth of a real cosmetic line and the possibility for the students to join our team and work with our company in the U.S. These are great results that give us the inspiration for more future projects with Ivy Tech.

-Camilla Magnaghi
CosMyFy
CosMyFy.com

YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS

THE DESIGN TECHNOLOGY PROGRAM AT IVY TECH PREPARES STUDENTS FOR CAREERS IN A VARIETY OF ENVIRONMENTS INCLUDING ARCHITECTURAL FIRMS, CONSTRUCTION COMPANIES, BIG MANUFACTURING COMPANIES, MEDICAL COMPANIES, FIRE SAFETY COMPANIES, MACHINING COMPANIES AND MORE. STUDENTS WILL ACQUIRE TECHNICAL SKILLS SUCH AS 3D PRINTING, WEB DESIGN, ANIMATION, AND USING ADOBE PHOTOSHOP, ILLUSTRATOR, AND INDESIGN. GRADUATES WILL ALSO HAVE THE FOUNDATION NEEDED TO BEGIN A CAREER IN THIS FIELD OR TO TRANSFER TO THE FOUR-YEAR UNIVERSITY OF THEIR CHOICE.

SALARY OUTLOOK

$62,492

*Data is Average Annual Salary Specific to Indiana

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Campus Main Line: (219) 464-8514
# Design Technology Completion Guide

## Computer-Aided Design

### 8-Week Sessions

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 4</th>
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<td><strong>FALL</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SPRING</strong></td>
</tr>
<tr>
<td>DESN 101: Introduction to Design Technology (3 cr) CT</td>
<td>DESN 113: 2D Computer-Aided Design (3 CH) CT</td>
<td>DESN 227: Geometric Dimensions &amp; Tolerance (3 cr) TC Elective*</td>
<td>DESN 104: Mechanical Graphics (3 cr) CT</td>
</tr>
<tr>
<td>IVYT 113: Student Success in Technology (1 cr) TC</td>
<td>DESN 109: Construction of Materials and Specifications (3 cr) TC Elective*</td>
<td>DESN 115: BIM Architecture (3 cr) CT Elective*</td>
<td>DESN 220: 3D Computer Aided Design (3 cr) CT</td>
</tr>
<tr>
<td>MATH 122: Applied Technical Mathematics (3 cr) TC 16 weeks</td>
<td></td>
<td></td>
<td>16 weeks</td>
</tr>
<tr>
<td>DESN 105: Architectural Design (3 cr) CT 16 weeks</td>
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</tr>
</tbody>
</table>

### Earned

- **Certificate (18 Credit Hours)**
  - Technical Certificate (31 Credit Hours)

<table>
<thead>
<tr>
<th>Term 5</th>
<th>Term 6</th>
<th>Term 7</th>
<th>Term 8</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
<td><strong>FALL</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SPRING</strong></td>
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<tr>
<td>DESN 130: Fundamentals of Computer Graphics (3 cr) AAS Elective*</td>
<td>DESN 218: Introduction to Statics and Strength of Materials (3 cr) AAS 16 weeks</td>
<td>SOC 111: Intro to Sociology (3 cr) AAS Elective*</td>
<td>DESN 109: BIM Architecture (3 cr) CT Elective*</td>
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<tr>
<td>ENGL 111: English Comp (3 cr) AAS</td>
<td></td>
<td></td>
<td>DESN 279: Design Technology Capstone (1 cr) AAS</td>
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<tr>
<td>DESN 217: Design Process and Applications (3 cr) AAS</td>
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<tr>
<td>MATH 122: Applied Technical Mathematics (3 cr) TC</td>
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<tr>
<td>DESN 115: BIM Architecture (3 cr) CT 16 weeks</td>
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</table>

### Earned

- **Associate of Applied Science (60 Credit Hours)**

  - CT-Certificate (18 credits)
  - TC-Technical Certificate (31 credits)
  - AAS-Associate of Applied Science (60 credits)

*Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modality.*
Working with the Design Technology department has been a wonderful experience on many fronts. As a European company, we have a lot to understand about the U.S. design and marketing world, and the choice to work with Ivy Tech’s students to approach that world has brought concrete results. Their ideas and freshness, with our knowledge and experience in the natural cosmetic industry, has led to the birth of a real cosmetic line and the possibility for the students to join our team and work with our company in the U.S. These are great results that give us the inspiration for more future projects with Ivy Tech.

-Camilla Magnaghi
CosMyFy
CosMyFy.com
<table>
<thead>
<tr>
<th>8-WEEK SESSIONS</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td>DESN 101: Introduction to Design Technology (3 cr) CT</td>
<td>DESN 130: Fundamentals of Computer Graphics (3 cr) CT</td>
<td>IVYT 113: Student Success in Technology (1 cr) TC</td>
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<tr>
<td><strong>FALL Term 2</strong></td>
<td>DESN 113: 2D Computer-Aided Design (3 CH) CT</td>
<td>DESN 132: Raster Imaging Fundamentals (3 cr) CT</td>
<td>MATH 122: Applied Technical Mathematics (3 cr) TC 16 weeks</td>
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<td><strong>SPRING Term 3</strong></td>
<td>DESN 133: Vector Imaging Fundamentals (3 cr) CT</td>
<td>COMM 104: Workplace Communication (3 cr) TC</td>
<td>DESN 105: 3D Architectural Design I (3 cr) TC 16 weeks</td>
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<tr>
<td><strong>SPRING Term 4</strong></td>
<td>DESN 134: Design for Visualization &amp; Communication (3 cr) CT</td>
<td>DESN 115: BIM Architecture (3 cr) TC</td>
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</table>

**EARNED Certificate (18 Credit Hours)**
**Technical Certificate (31 Credit Hours)**

| **FALL Term 5** | ENGL 111: English Comp (3 cr) AAS | DESN 220: 3D Computer Aided Design (3 cr) AAS Elective* 16 weeks | SCIN 101: Science of Energy Generation (4 cr) AAS Elective* 16 weeks | DESN 218: Introduction to Statics and Strength of Materials (3 cr) AAS 16 weeks |
| **FALL Term 6** | DESN 273: Design for Additive Manufacturing (3 cr) AAS Elective* | | | |
| **SPRING Term 7** | SOC 111: Intro to Sociology (3 cr) AAS Elective* | DESN 217: Design Process and Applications (3 cr) AAS 16 weeks | | DESN 230: Computer Modeling & Animation (3 cr) AAS Elective* 16 weeks |
| **SPRING Term 8** | DESN 279: Design Technology Capstone (1 cr) AAS | VISC 101: Fundamentals of Design (3 cr) AAS Elective* | | |

**EARNED Associate of Applied Science (60 Credit Hours)**

CT-Certificate (18 credits)  TC-Technical Certificate (31 credits)  AAS-Associate of Applied Science (60 credits)

* Suggested electives are stated. Please see advisor for other options. Additionally, some courses may be offered at various times or course modality.
As Northwest Indiana has one of the highest concentrations of industry in the United States, mechanical design and drafting positions are in high demand. We teach AutoCAD, Solid Works and soon will be offering Fusion as part of our required classes. We also offer industry certifications in these programs.

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For a good-paying job, invest in your education! With an associate degree from Ivy Tech Community College, you’ll earn an average $8,000 more each year than you would with just a high school diploma.

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SALARY OUTLOOK
$62,492

*Data is Average Annual Salary Specific to Indiana

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Dean:
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Department Chair:
Jason Gordon: jgordon50@ivytech.edu; ext. 3055

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# Design Technology Completion Guide

## 8-Week Sessions

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credit Hours</th>
<th>Elective</th>
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<tr>
<td>FALL Term 1</td>
<td>DESN 101: Introduction to Design Technology (3 cr) CT</td>
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<tr>
<td>FALL Term 2</td>
<td>DESN 113: 2D Computer-Aided Design (3 cr) CT</td>
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<tr>
<td>SPRING Term 3</td>
<td>DESN 104: Mechanical Graphics (3 cr) CT</td>
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<td>SPRING Term 4</td>
<td>DESN 105: Architectural Design (3 cr) AAS Elective*</td>
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<td>SPRING Term 5</td>
<td>ADMF 101: Key Principles in Advanced Manufacturing (3 cr) AAS Elective*</td>
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<td>SPRING Term 6</td>
<td>DESN 109: Construction of Materials and Specifications (3 cr) TC Elective*</td>
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<td>SPRING Term 7</td>
<td>ADMF 102: Technology in Advanced Manufacturing (3 cr) AAS Elective*</td>
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<tr>
<td>SPRING Term 8</td>
<td>DESN 107: Design Technology Capstone (1 cr) AAS Elective*</td>
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</tbody>
</table>

## Earned

- **Certificate (18 Credit Hours)**
  - Technical Certificate (31 Credit Hours)
  - **Associate of Applied Science (60 Credit Hours)**

## Notes

- *Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modality.*
CONTINUE YOUR EDUCATION

Transfer Partners:

- Indiana University / Purdue University Indianapolis
- Indiana State University
- Purdue University
- Indiana University / Purdue University Ft. Wayne

Graduates of our Associate of Science (AS) degree can seamlessly transfer to a four-year institution through our "Transfer as a Junior" program, entering at a junior status. To learn more about our Transfer as a Junior programs, and how they can save you money, visit our TSAP page. Please keep in mind, you will also need to be admitted to the four-year institution you intend to transfer to; admission is not guaranteed just by enrolling in a Transfer as a Junior program.

SALARY OUTLOOK

$73,931

*Data is Average Annual Salary Specific to Indiana

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Dr. Wangling (Warren) Yu: wyu8@ivytech.edu; ext. 3114

Academic Advisor:
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Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# Electrical Engineering Technology Completion Guide

**8-Week Sessions**

<table>
<thead>
<tr>
<th>Term</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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<tbody>
<tr>
<td>FALL Term 1</td>
<td>IVYT 111/113: Student Success (1 cr) 4 day format recommended</td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>EECT 111: Introduction to Circuit Analysis (4 cr)</td>
<td>EECT 112: Digital Fundamentals (3 cr)</td>
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<tr>
<td>FALL Term 2</td>
<td>MATH 136: College Algebra (3 cr)</td>
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<tr>
<td>SPRING Term 3</td>
<td>MATH 137: Trigonometry with Analytic Geometry (3 cr)</td>
<td>EECT 121: Electronics Circuits Analysis (4 cr)</td>
<td>EECT 122: Digital Applications (4 cr)</td>
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<tr>
<td>SPRING Term 4</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr)</td>
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<tr>
<td>SUMMER Term 5</td>
<td>ECON 101: Economic Fundamentals (3 cr) AAS Elective*</td>
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<tr>
<td>FALL Term 6</td>
<td>EECT 128: Introduction to Programming (3 cr)</td>
<td>EECT 211: AC Circuit Analysis (4 cr)</td>
<td>MATH 221: Calculus for Technology I (3 cr)</td>
<td>PHYS 101: Physics I (4 cr)</td>
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<td>FALL Term 7</td>
<td>PHIL 102: Introduction to Ethics (3 cr)</td>
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<tr>
<td>SPRING Term 8</td>
<td>EECT 223: Electrical Machines (3 cr)</td>
<td>EECT 222: Intro to Microcontrollers (4 cr)</td>
<td>MATH 222: Calculus for Technology II (3 cr)</td>
<td>PHYS 102: Physics II OR CHEM 111: Chemistry I (4 cr)</td>
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<tr>
<td>SPRING Term 9</td>
<td>EETC 279: EE Capstone (1 cr)</td>
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</tbody>
</table>

**Earned**

**Associate of Science (60 Credit Hours)**

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
The Electronics and Computer Technology Program prepares students for a variety of careers in technology, such as computing, networking, communications, process control and automation, robotics, biomedical, energy management, and transportation. The program develops knowledgeable, skilled technicians who implement electronic designs and perform tasks such as collecting, analyzing and interpreting data, and installing, maintaining and troubleshooting various electronic systems. Students can acquire the associate level Certified Electronics Technician (CET) certification.

CAREER OPPORTUNITIES

What can I do with this major?

- PLC Technician
- Industrial Maintenance Technician
- Nanotechnology Support
- Electrical Technician

Our Associate Degree students take the Certified Electronics Technician examination (CETa from eta-i.org) before graduation. The internationally-recognized CETa certification shows employers that you’ve learned important electronics and electrical skills.

SALARY OUTLOOK

$72,860

*Data is Average Annual Salary Specific to Indiana

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Campus Main Line: (219) 464-8514
# Electronics & Computer Technology Completion Guide

**2022–23**

## 8-Week Sessions

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
<th>Format</th>
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<tbody>
<tr>
<td>Fall 1</td>
<td>IVYT 111/113: Student Success (1 cr) 4 day format recommended</td>
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<td>MATH 136: College Algebra (3 cr)</td>
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<td>Spring 3</td>
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<td>ENGL 111: English Composition (3 cr)</td>
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<td>Summer 5</td>
<td>ECON 101: Economics Fundamentals (3 cr)</td>
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<td>EECT 128: Introduction to Programming (3 cr)</td>
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<tr>
<td>Fall 7</td>
<td>PSYC 101: Introduction to Psychology (3 cr) AAS Elective*</td>
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### Earned

**Technical Certificate (31 Credit Hours)**

<table>
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<tr>
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<th>Credits</th>
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<tr>
<td>Spring 8</td>
<td>ENGL 211: Technical Writing (3 cr) AAS Elective*</td>
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<td>Spring 9</td>
<td>EECT 222: Intro to Microcontrollers (4 cr) AAS Elective*</td>
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<tr>
<td></td>
<td>PHYS 102: Physics II (4 cr) AAS Elective*</td>
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</table>

**Associate of Applied Science (60 Credit Hours)**

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
Students in the Energy Technology Program at Ivy Tech are able to participate in a wide variety of hands-on learning activities including building and maintaining wind turbines, performing energy audits, wiring electrical circuits and generation systems, and even designing and installing solar photovoltaic systems. Students will be able to work in the laboratory where they will collect data on electrical generation systems and wire up, design, install and build new systems.

CAREER OPPORTUNITIES

*What can I do with this major?*

- Electrical Power Line Installers & Repairers
- Wind Turbine & Solar Systems Technicians
- Smart Grid Operators
- Electricians

Working Toward Your Bachelor’s Degree?

Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS

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Department Chair:
Majid Mohseni: mmohseni@ivytech.edu; ext. 3092

Academic Advisor:
Ashley Witmer: awitmer4@ivytech.edu; (219) 476-4753

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514

SALARY OUTLOOK

*$61,628*

*Data is Average Annual Salary Specific to Indiana*

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## ENERGY TECHNOLOGY
### ELECTRIC LINE TECHNOLOGY
Completion Guide

### 8-WEEK SESSIONS

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term &amp; Session</th>
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<tbody>
<tr>
<td>FALL Term 1</td>
<td>NGAS 101: Natural Gas Fundamentals (3 cr) TC Elective*</td>
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<td>FALL Term 2</td>
<td>ENRG 102: Climbing (3 cr) TC</td>
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<td></td>
<td>IVYT 113: Student Success in Technology (1 cr) TC</td>
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<tr>
<td>SPRING Term 3</td>
<td>ENRG 100: Energy Industries Fundamentals (3 cr) TC</td>
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<td>SPRING Term 4</td>
<td>INDT 113: Basic Electricity (3 cr) TC</td>
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<td>SPRING Term 5</td>
<td>MATH 122: Applied Technical Mathematics (3 cr) TC</td>
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<td>SUMMER Term 5</td>
<td>HVAC 279: Green Awareness Capstone (1 cr) AAS</td>
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### EARNED
#### Technical Certificate (34 Credit Hours)

<table>
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<tr>
<td>FALL Term 6</td>
<td>ADMF 101: Key Principles of Advanced Manufacturing (3 cr) AAS Elective*</td>
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<td>FALL Term 7</td>
<td>ENGL 111: English Composition (3 cr) AAS</td>
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<td>SPRING Term 8</td>
<td>HVAC 100: Intro to HVAC (3 cr) AAS Elective*</td>
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<td>SPRING Term 9</td>
<td>SUST 101: Wind Power (3 cr) AAS Elective*</td>
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<td>SPRING Term 9</td>
<td>ENRG 107: Transmission and Distribution of Electric Power (3 cr) TC</td>
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<td>SPRING Term 9</td>
<td>IND 125: Industrial Wiring Principles (3 cr) TC</td>
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<td>ENRG 109: Rigging for Line Workers (3 cr) TC</td>
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### EARNED
#### Associate in Applied Science (60 Credit Hours)

- TC—Technical Certificate (34 credits)
- AAS—Associate of Applied Science (60 credits)

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modality.
Students in the Energy Technology Program at Ivy Tech are able to participate in a wide variety of hands-on learning activities including building and maintaining wind turbines, performing energy audits, wiring electrical circuits and generation systems, and even designing and installing solar photovoltaic systems. Students will be able to work in the laboratory where they will collect data on electrical generation systems and wire up, design, install and build new systems.

**CAREER OPPORTUNITIES**

*What can I do with this major?*

- Electrical Power Line Installers & Repairers
- Wind Turbine & Solar Systems Technicians
- Smart Grid Operators
- Electricians

**SALARY OUTLOOK**

$61,628

*Data is Average Annual Salary Specific to Indiana*

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(219) 476-4701

**YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS**

<table>
<thead>
<tr>
<th>Dean:</th>
<th>Academic Advisor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jennifer Furmanek: <a href="mailto:jfurmanek@ivytech.edu">jfurmanek@ivytech.edu</a>; (219) 476-4740</td>
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<table>
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<tr>
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<th>Career Coach:</th>
</tr>
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<tbody>
<tr>
<td>Majid Mohseni: <a href="mailto:mmohseni@ivytech.edu">mmohseni@ivytech.edu</a>; ext. 3092</td>
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</tr>
</tbody>
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Campus Main Line: (219) 464-8514
## ENERGY TECHNOLOGY
### NATURAL GAS TECHNOLOGY
#### Completion Guide

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<tbody>
<tr>
<td>FALL Term 1</td>
<td>INDT 113: Basic Electricity (3 cr) TC</td>
<td>IVYT 113: Student Success in Technology (1 cr) TC</td>
<td>NGAS 101: Natural Gas Fundamentals (3 cr) TC Elective*</td>
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<tr>
<td>FALL Term 2</td>
<td>ENRG 100: Energy Industries Fundamentals (3 cr) TC</td>
<td>SUST 101: Wind Power (3 cr) TC</td>
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<tr>
<td>SPRING Term 3</td>
<td>INDT 103: Motors &amp; Motor Controls (3 cr) TC</td>
<td>INDT 104: Fluid Power Basics (3 cr) TC</td>
<td>MATH 122: Applied Technical Mathematics (3 cr) TC</td>
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<tr>
<td>SPRING Term 4</td>
<td>NGAS 102: Natural Gas Piping Joining (3 cr) TC</td>
<td>NGAS 203: Natural Gas Regulatory &amp; Compliance ISS (3 cr) TC</td>
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<tr>
<td>SUMMER Term 5</td>
<td>COMM 104: Workplace Communications (3 cr) TC</td>
<td>Option 1 - INDT 280: Co-Op Internship (3 cr) OR</td>
<td>Option 2 - NGAS 204: Natural Gas Construction Techniques (3 cr)</td>
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#### EARNED

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<td>ADMF 101: Key Principles in Advanced Manufacturing (3 cr) AAS Elective*</td>
<td>ENGL 111: English Composition (3 cr) AAS</td>
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<tr>
<td>FALL Term 7</td>
<td>HVAC 100: Intro to HVAC (3 cr) AAS Elective*</td>
<td>SOC 111: Intro to Sociology (3 cr) AAS Elective*</td>
<td></td>
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</tr>
<tr>
<td>SPRING Term 8</td>
<td>ENRG 111: Smart Grid Home Integration (3 cr) AAS Elective*</td>
<td>INDT 203: Machine Maintenance &amp; Installation (3 cr) AAS</td>
<td>SCIN 101: Science of Energy Generation (4 cr) AAS Elective*</td>
<td></td>
</tr>
<tr>
<td>SPRING Term 9</td>
<td>SUST 102: Solar, Wind &amp; Geothermal (3 cr) AAS Elective*</td>
<td>HVAC 279: Green Awareness Capstone (1 cr) AAS</td>
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</tr>
</tbody>
</table>

#### Technical Certificate (34 Credit Hours)

- **FALL Term 6**
  - ADMF 101: Key Principles in Advanced Manufacturing (3 cr) AAS Elective*
  - ENGL 111: English Composition (3 cr) AAS
- **FALL Term 7**
  - HVAC 100: Intro to HVAC (3 cr) AAS Elective*
  - SOC 111: Intro to Sociology (3 cr) AAS Elective*
- **SPRING Term 8**
  - ENRG 111: Smart Grid Home Integration (3 cr) AAS Elective*
  - INDT 203: Machine Maintenance & Installation (3 cr) AAS
  - SCIN 101: Science of Energy Generation (4 cr) AAS Elective*
- **SPRING Term 9**
  - SUST 102: Solar, Wind & Geothermal (3 cr) AAS Elective*
  - HVAC 279: Green Awareness Capstone (1 cr) AAS

#### Associate in Applied Science (60 Credit Hours)

- TC-Techcnical Certificate (34 credits)
- AAS-Associate of Applied Science (60 credits)

*Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modality.*
CAREER OPPORTUNITIES

What can I do with this major?

- Electrical Power Line Installers & Repairers
- Wind Turbine & Solar Systems Technicians
- Smart Grid Operators
- Electricians

Working Toward Your Bachelor’s Degree?

Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

SALARY OUTLOOK

$61,628

*Data is Average Annual Salary Specific to Indiana

EARN MORE & IMPROVE YOUR SKILLS

For a good-paying job, invest in your education! With an associate degree from Ivy Tech Community College, you’ll earn an average $8,000 more each year than you would with just a high school diploma.

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(219) 476-4701

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Department Chair:
Majid Mohseni: mmohseni@ivytech.edu; ext. 3092

Academic Advisor:
Ashley Witmer: awitmer4@ivytech.edu; (219) 476-4753

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# ENERGY TECHNOLOGY RENEWABLE ENERGY TECHNOLOGY
## Completion Guide

### 8-WEEK SESSIONS

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credit</th>
<th>Elective</th>
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<tbody>
<tr>
<td>FALL</td>
<td>INDT 113: Basic Electricity (3 cr) TC</td>
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<tr>
<td>Term 1</td>
<td></td>
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<tr>
<td>FALL</td>
<td>ENRG 100: Energy Industries Fundamentals (3 cr) TC</td>
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<tr>
<td>Term 2</td>
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<tr>
<td>SPRING</td>
<td>ENRG 111: Smart Grid Home Integration (3 cr) TC</td>
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<td>Term 3</td>
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<tr>
<td>SPRING</td>
<td>INDT 125: Industrial Wiring Principles (3 cr) TC</td>
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<td>Term 4</td>
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<tr>
<td>SUMMER</td>
<td>COMM 104: Workplace Communications (3 cr) TC</td>
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<td>Term 5</td>
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<tr>
<td>EARNED</td>
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<tr>
<td>FALL</td>
<td>ADMF 101: Key Principles in Advanced Manufacturing (3 cr) AAS Elective*</td>
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<td>Term 6</td>
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<tr>
<td>FALL</td>
<td>HVAC 100: Intro to HVAC (3 cr) AAS Elective*</td>
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<tr>
<td>Term 7</td>
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<tr>
<td>SPRING</td>
<td>INDT 103: Motors &amp; Motor Controls (3 cr) AAS Elective*</td>
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<td>Term 8</td>
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<tr>
<td>SPRING</td>
<td>ENGL 111: English Composition (3 cr)</td>
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<tr>
<td>Term 9</td>
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</table>

### Technical Certificate (34 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credit</th>
<th>Elective</th>
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<tbody>
<tr>
<td>FALL</td>
<td>BUSN 101: Introduction to Business (3 cr) AAS Elective*</td>
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<td>Term 6</td>
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<tr>
<td>FALL</td>
<td>SOC 111: Intro to Sociology (3 cr) AAS Elective*</td>
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<td>Term 7</td>
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<td></td>
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<tr>
<td>SPRING</td>
<td>INDT 203: Machine Maintenance &amp; Installation (3 cr)</td>
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<tr>
<td>Term 8</td>
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<tr>
<td>SPRING</td>
<td>SCIN 101: Science of Energy Generation (4 cr) AAS Elective*</td>
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<tr>
<td>Term 9</td>
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### Associate in Applied Science (60 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>FALL</td>
<td>MATH 122: Applied Technical Mathematics (3 cr) TC</td>
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<td>Term 6</td>
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<tr>
<td>FALL</td>
<td>IVYT 113: Student Success in Technology (1 cr) TC</td>
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<tr>
<td>Term 7</td>
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<tr>
<td>SPRING</td>
<td>HVAC 279: Green Awareness Capstone (1 cr)</td>
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<tr>
<td>Term 8</td>
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</tbody>
</table>

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modality.
Graduates of the Engineering Technology program will have two options. Students will develop the science, technology, engineering and math skills needed to enter the workforce as an engineering technician, or they can transfer to a four-year engineering technology program. Our graduates have continued their education at Purdue University statewide programs, Indiana State University, Indiana Tech and Trine University.

Working Toward Your Bachelor’s Degree?
Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

SALARY OUTLOOK
$71,701

*Data is Average Annual Salary Specific to Indiana

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For a good-paying job, invest in your education! With an associate degree from Ivy Tech Community College, you’ll earn an average $8,000 more each year than you would with just a high school diploma.

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Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# Engineering Technology Completion Guide

## 8-Week Sessions

<table>
<thead>
<tr>
<th>TERM</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL Term 1</td>
<td>IVYT 111/113: Student Success (1 cr) 4 day format recommended</td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>ENGT 120: Engineering Concepts &amp; Technology (3 cr)</td>
<td>EECT 111: Introduction to Circuit Analysis (4 cr)</td>
</tr>
<tr>
<td>FALL Term 2</td>
<td>MATH 136: College Algebra (3 cr)</td>
<td>METC 107: Mechanical Design &amp; Documentation (3 cr)</td>
<td>EECT 112: Digital Fundamentals (3 cr)</td>
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<tr>
<td>SPRING Term 3</td>
<td>MATH 137: Trigonometry with Analytic Geometry (3 cr)</td>
<td>Comm 101: Fundamentals of Public Speaking (3 cr)</td>
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<tr>
<td>SPRING Term 4</td>
<td>ECON 101: Economic Fundamentals (3 cr) AAS Elective*</td>
<td>METC 143: Materials &amp; Processes (3 cr)</td>
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<tr>
<td>SUMMER Term 5</td>
<td>EECT 128: Introduction to C Programming (3 cr)</td>
<td>MATH 221: Calculus for Technology (3 cr)</td>
<td>PHYS 101: Physics I (4 cr)</td>
<td></td>
</tr>
<tr>
<td>FALL Term 6</td>
<td>PHIL 102: Introduction to Ethics (3 cr)</td>
<td>PHYS 102: Physics II OR</td>
<td></td>
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</tr>
<tr>
<td>FALL Term 7</td>
<td>METC 220: CAD for Mechanical Design (3 cr)</td>
<td>SOC 111: Intro to Sociology (3 cr) AAS Elective*</td>
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</tr>
<tr>
<td>SPRING Term 8</td>
<td>ENGT 279: Portfolio Preparation (2 cr)</td>
<td>METC 111: Statics (3 cr)</td>
<td>CHEM 111: Chemistry I (4 cr)</td>
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<tr>
<td>SPRING Term 9</td>
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</tbody>
</table>

## Earned

**Associate of Science (60 Credit Hours)**

*Suggested electives are stated. Please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.*
Curriculum in this program allows students to learn about materials, testing and design. Students will also learn skills such as synthesizing, improving and implementing mechanical designs. Students will gain a necessary understanding in order to support engineering processes such as collecting, analyzing, and interpreting data and troubleshooting mechanical systems.

“I believe that Ivy Tech is where I really found my way to my passions and ambitions. I was surrounded by people who encouraged me every day, reassuring me that I had the ability to reach the goals I spoke about.”

- Michael Wilson
Mechanical Engineering Technology

SALARY OUTLOOK

$84,649

*Data is Average Annual Salary Specific to Indiana

EARN MORE & IMPROVE YOUR SKILLS

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Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# Engineering Completion Guide

## 8-Week Sessions

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL Term 1</td>
<td>IVYT 113/111: Student Success</td>
<td>1 cr</td>
<td>16 weeks</td>
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</tr>
<tr>
<td>FALL Term 2</td>
<td>ENGL 111: English Composition</td>
<td>3 cr</td>
<td>16 weeks</td>
<td></td>
</tr>
<tr>
<td>SPRING Term 3</td>
<td>PHIL 102: Intro to Ethics</td>
<td>3 cr</td>
<td>16 weeks</td>
<td></td>
</tr>
<tr>
<td>SPRING Term 4</td>
<td>METC 143: Materials &amp; Processes</td>
<td>3 cr</td>
<td>16 weeks</td>
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## Earned Certificate (22 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>SUMMER Term 5</td>
<td>COMM 101: Fundamentals of Public Speaking</td>
<td>3 cr</td>
<td>16 weeks</td>
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## Earned Technical Certificate (31 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Duration</th>
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<tbody>
<tr>
<td>FALL Term 6</td>
<td>ENGR 251: Electrical Circuit I</td>
<td>4 cr</td>
<td>16 weeks</td>
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<tr>
<td>FALL Term 7</td>
<td>MATH 261: Multivariate Calculus</td>
<td>4 cr</td>
<td>16 weeks</td>
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<tr>
<td>SPRING Term 8</td>
<td>SOC 111: Introduction to Sociology</td>
<td>3 cr</td>
<td>16 weeks</td>
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<tr>
<td>SPRING Term 9</td>
<td>ENGR 260: Vector Mechanics - Statics</td>
<td>3 cr</td>
<td>16 weeks</td>
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## Earned Associate of Science (60 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Duration</th>
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<tbody>
<tr>
<td>FALL Term 6</td>
<td>MATH 211: Calculus I</td>
<td>4 cr</td>
<td>16 weeks</td>
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<tr>
<td>SPRING Term 8</td>
<td>PHYS 220: Mechanics</td>
<td>5 cr</td>
<td>16 weeks</td>
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<tr>
<td>SPRING Term 9</td>
<td>ENGR 252: Electrical Circuit II</td>
<td>4 cr</td>
<td>16 weeks</td>
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</tr>
</tbody>
</table>

* Suggested electives are stated. Please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES

What would I do as an HVAC Technician?

- Install, clean and maintain HVACR systems
- Install electrical components and wiring
- Inspect and test HVACR systems and components
- Discuss system malfunctions with customers

SALARY OUTLOOK

$54,991

*Data is Average Annual Salary Specific to Indiana

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Program Chair:
Craig DeMeo: cdemeo1@ivytech.edu; ext. 3054

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# Heating, Ventilation and Air Conditioning Technology Completion Guide

## 8-Week Sessions

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL</td>
<td><a href="#">HVAC 101: Heating Fundamentals</a> (3 cr CT)</td>
<td><a href="#">HVAC 103: Refrigeration I</a> (3 cr CT)</td>
<td><a href="#">IVYT 113: Student Success</a> (1 cr TC)</td>
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</tr>
<tr>
<td>Term 1</td>
<td><a href="#">HVAC 100: Intro to HVAC</a> (3 cr CT)</td>
<td><a href="#">HVAC 211: Refrigeration II</a> (3 cr CT)</td>
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<tr>
<td>SPRING</td>
<td><a href="#">INDT 113: Basic Electricity</a> (3 cr CT)</td>
<td><a href="#">MATH 122: Applied Technical Math</a> (3 cr TC)</td>
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<tr>
<td>Term 3</td>
<td><a href="#">HVAC 202: Electrical Controls &amp; Circuits</a> (3 cr CT)</td>
<td><a href="#">HVAC 208: Heating Service</a> (3 cr CT)</td>
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<tr>
<td>SPRING</td>
<td><a href="#">HVAC 207: Refrigeration II</a> (3 cr CT)</td>
<td><a href="#">HVAC 201: Cooling Service</a> (3 cr AAS Elective*)</td>
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<tr>
<td>Term 4</td>
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<td><a href="#">HVAC 200: Intro to HVAC</a> (3 cr CT)</td>
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<tr>
<td>SUMMER</td>
<td><a href="#">HVAC 107: Duct Fabrication &amp; Install</a> (3 cr CT)</td>
<td><a href="#">COMM 104: Workplace Communications</a> (3 cr TC)</td>
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<tr>
<td>Term 5</td>
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<td><a href="#">HVAC 203: Heat Loss &amp; Gain</a> (3 cr AAS Elective*)</td>
<td><a href="#">ENGL 111: English Composition</a> (3 cr AAS)</td>
<td><a href="#">INDT 114: Introductory Welding</a> (3 cr AAS Elective*)</td>
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<td>FALL</td>
<td><a href="#">HVAC 201: Cooling Service</a> (3 cr AAS Elective*)</td>
<td><a href="#">HVAC 207: HVAC Codes</a> (3 cr AAS Elective*)</td>
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<td>Term 6</td>
<td><a href="#">HVAC 200: Intro to HVAC</a> (3 cr CT)</td>
<td><a href="#">HVAC 205: Heat Pump Systems</a> (3 cr AAS Elective*)</td>
<td><a href="#">SCIN 101: Science of Energy Generation</a> (4 cr AAS Elective*)</td>
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<tr>
<td>SPRING</td>
<td><a href="#">HVAC 171: Boilers I</a> (3 cr AAS Elective*)</td>
<td><a href="#">HVAC 279: Green Awareness Capstone</a> (1 cr AAS)</td>
<td><a href="#">PSYC 101: Intro to Psychology</a> (3 cr AAS Elective*)</td>
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<tr>
<td>Term 7</td>
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<td><a href="#">HVAC 205: Heat Pump Systems</a> (3 cr AAS Elective*)</td>
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<tr>
<td>SPRING</td>
<td></td>
<td><a href="#">HVAC 279: Green Awareness Capstone</a> (1 cr AAS)</td>
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<tr>
<td>Term 8</td>
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<td><a href="#">PSYC 101: Intro to Psychology</a> (3 cr AAS Elective*)</td>
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<tr>
<td>EARNED</td>
<td>[HVAC Technology Certificate (21 Credit Hours)]</td>
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<td></td>
<td>[HVAC Technology Associate of Applied Science (60 Credit Hours)]</td>
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<tr>
<td>SUMMER</td>
<td><a href="#">HVAC 107: Duct Fabrication &amp; Install</a> (3 cr CT)</td>
<td><a href="#">COMM 104: Workplace Communications</a> (3 cr TC)</td>
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<tr>
<td>Term 5</td>
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</tr>
<tr>
<td>EARNED</td>
<td>[HVAC Technology Technical Certificate (31 Credit Hours)]</td>
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</tbody>
</table>

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.

CT-Certificate (21 credits)  TC-Technical Certificate (34 credits)  AAS-Associate of Applied Science (60 credits)
INDUSTRIAL TECHNOLOGY
ELECTRICAL

The Industrial Technology Electrical Program is designed to prepare students for entry-level and apprentice-level positions in industrial maintenance and electrical. Students receive hands-on training in motor controls, relay systems, electrical circuits, programmable logic controllers, and industrial safety. Learn more here: https://youtu.be/OdddGNFCNFk

CAREER OPPORTUNITIES

What can I do with this major?

- Industrial Maintenance Technician
- Electrical Apprentice
- Controls Technician
- Field Service Technician

Job opportunities are widely available.

Work for companies like:
- NLMK
- Cleveland Cliffs
- Nexus RV
- Shoremet
- CosMyFy
- 5 Star Engineering
- Waste Away Group

SALARY OUTLOOK

$42,975

*Data is Average Annual Salary Specific to Indiana

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Department Chair:
Mark Antrim: mantrim3@ivytech.edu; ext. 3119

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
<th>Type</th>
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<tbody>
<tr>
<td>Fall Term 1</td>
<td>ADMF 101: Key Principles of Advanced Manufacturing</td>
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<td>IND T 13: Industrial Electrical I</td>
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<td>ADMF 102: Technology in Advanced Manufacturing</td>
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<td>ADMF 122: Industrial Electrical II</td>
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<td>Spring Term 3</td>
<td>INDT 103: Motors &amp; Motor Controls</td>
<td>3</td>
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<td>INDT 104: Fluid Power I</td>
<td>3</td>
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<td>INDT 205: Programmable Automation Controls I</td>
<td>3</td>
<td>CT</td>
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<td>Spring Term 4</td>
<td>INDT 204: Electrical Circuits</td>
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<td>INDT 125: Industrial Wiring Principles</td>
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<td>Summer Term 5</td>
<td>COMM 104: Workplace Communications</td>
<td>3</td>
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<td></td>
<td>IND T 216: Industrial Electrical Certificate</td>
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<td>ENGL 111: English Composition</td>
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<td>INDT 206: Programmable Automation Controls II</td>
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<td>INDT 211: Industrial Process Control &amp; Inst.</td>
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<td>ADMF 106: Supervision &amp; Teams at Work</td>
<td>3</td>
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<td></td>
<td>INDT 212: Programmable Automation Controls III</td>
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<td>PSYC 101: Introduction to Psychology</td>
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<td>AAS Elective*</td>
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<td></td>
<td>SCIN 101: Science of Energy Generation</td>
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<td>AAS Elective*</td>
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<td>INDT 260: Projects in Manufacturing</td>
<td>3</td>
<td>AAS</td>
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<td>Spring Term 9</td>
<td>INDT 279: Capstone</td>
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<td>AAS</td>
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<td>SCIN 101: Science of Energy Generation</td>
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<td>INDT 260: Projects in Manufacturing</td>
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</tbody>
</table>

CT-Certificate (21 credits)      TC-Technical Certificate (34 credits)      AAS-Associate of Applied Science (60 credits)

*Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES

What can I do with this major?

- Industrial Maintenance Technician
- Machine Installer
- Controls Technician
- Field Service Technician

Job opportunities are widely available.
Work for companies like:

- NLMK
- Cleveland Cliffs
- Nexus RV
- Shoremet
- CosMyFy
- 5 Star Engineering
- Waste Away Group

SALARY OUTLOOK

$42,975

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<table>
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<th>Course Code</th>
<th>Credit Hours</th>
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<td>ADMF 101: Key Principles of Advanced Manufacturing (3 cr) CT</td>
<td>MTTC 101: Introduction to Machining (3 cr) TC</td>
<td>ADMF 102: Technology in Advanced Manufacturing (3 cr) CT</td>
<td>IVYT 113: Student Success (1 cr) TC</td>
<td>INDT 114: Introductory Welding (3cr) TC Elective* 16 weeks</td>
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<td>FALL Term 2</td>
<td>ADMF 102: Technology in Advanced Manufacturing (3 cr) CT</td>
<td>INDT 113: Industrial Electrical I (3 cr) CT</td>
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<td>SPRING Term 3</td>
<td>INDT 203: Machine Maintenance (3 cr) CT</td>
<td>INDT 104: Fluid Power I (3 cr) CT</td>
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<td>MATH 122: Applied Technical Mathematics (3 cr) TC</td>
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<td>SPRING Term 4</td>
<td>ADMF 112: Mechanical Drives I (3 cr) CT</td>
<td>ADMF 222: Fluid Power II (3 cr) CT</td>
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<td>SUMMER Term 5</td>
<td>COMM 104: Workplace Communications (3 cr) TC</td>
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<td>FALL Term 6</td>
<td>ENGL 111: English Composition (3 cr) AAS</td>
<td>INDT 210: Pumps (3cr) AAS Elective*</td>
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<tr>
<td>FALL Term 7</td>
<td>ADMF 106: Supervision &amp; Teams at Work (3 cr) AAS</td>
<td>INDT 213: Pipe Fitting Basics (3cr) AAS Elective*</td>
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<tr>
<td>SPRING Term 8</td>
<td>PSYC 101: Intro to Psychology (3 cr) AAS Elective*</td>
<td></td>
<td>SCIN 101: Science of Energy Generation (4 cr) AAS Elective*</td>
<td></td>
<td>INDT 260: Projects in Manufacturing (3 cr) AAS 16 weeks</td>
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<tr>
<td>SPRING Term 9</td>
<td>INDT 279: Capstone (1 cr) AAS</td>
<td>INDT 204: Electrical Circuits (3cr) AAS Elective*</td>
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</tbody>
</table>

**EDNED**
- Industrial Mechanical Certificate (21 Credit Hours)
- Industrial Mechanical Technology Technical Certificate (34 Credit Hours)
- Associate of Applied Science (60 Credit Hours)

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
Students who earn a Welding Certificate will have developed welding and blueprint-reading skill sets leading to career opportunities in the welding field. The Technical Certificate creates a pipe and fabrication learning opportunity for students. Students participate in hands-on opportunities to learn GTAW (TIG), GMAW (MIG), and SMAW (STICK) welding processes.

**CAREER OPPORTUNITIES**

*What can I do with this major?*

- Machine Maintenance Technician
- MIG/TIG Welder
- Service Technician
- Electrician

Job opportunities in our region are widely available. Work for companies like:

- Renolit
- Sullair
- KLM Engineering

**SALARY OUTLOOK**

$42,975

*Data is Average Annual Salary Specific to Indiana

**EARN MORE & IMPROVE YOUR SKILLS**

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Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# Industrial Technology Welding Completion Guide

**Term 3**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td>WELD 100: Welding Processes (3 cr) CT</td>
<td>WELD 108: Shielded Metal Arc Welding I (3 cr) CT</td>
<td>IVYT 113: Student Success (1 cr) TC</td>
</tr>
<tr>
<td><strong>FALL Term 2</strong></td>
<td>Math 122: Applied Technical Mathematics (3 cr) TC</td>
<td>WELD 206: Shielded Metal Arc Welding II (3 cr) CT</td>
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<tr>
<td><strong>SPRING Term 3</strong></td>
<td>WELD 207: Gas Metal Arc (MIG) Welding (3 cr) CT</td>
<td>WELD 208: Gas Tungsten Arc (TIG) Welding (3 cr) CT</td>
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</tr>
<tr>
<td><strong>SPRING Term 4</strong></td>
<td>WELD 272: Gas Metal Arc Welding II (3 cr) CT</td>
<td>WELD 273: Gas Tungsten Arc Welding II (3 cr) CT</td>
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## Earned: Structural Welding Technology Certificate (21 Credit Hours)

**SUMMER Term 5**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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</thead>
<tbody>
<tr>
<td>COMM 104: Workplace Communications (3 cr) TC</td>
<td>INDT 203: Machine Maintenance (3 cr) AAS Elective*</td>
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</table>

**FALL Term 6**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MTTC 101: Introduction to Machining (3 cr) AAS Elective*</td>
<td>WELD 203: Pipe Welding I (3 cr) TC Elective*</td>
<td>ENGL 111: English Composition (3 cr) AAS</td>
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**FALL Term 7**

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>ADMF 106: Supervision &amp; Teams at Work (3 cr) AAS</td>
<td>WELD 210: Welding Fabrication I (3 cr) TC Elective*</td>
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## Earned: Welding Technology Technical Certificate (34 Credit Hours)

**SPRING Term 8**

<table>
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<tbody>
<tr>
<td>INDT 113: Industrial Electrical I (3cr) AAS Elective*</td>
<td>PSYC 101: Intro to Psychology (3 cr) AAS Elective*</td>
<td>SCIN 101: Science of Energy Generation (4 cr) AAS Elective* 16 weeks</td>
<td>INDT 260: Projects in Manufacturing (3 cr) AAS 16 weeks</td>
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</table>

**SPRING Term 9**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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<tbody>
<tr>
<td>INDT 279: Capstone (1 cr) AAS</td>
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</tr>
</tbody>
</table>

## Earned: Associate of Applied Science (60 Credit Hours)

CT-Certificate (21 credits)  TC-Technical Certificate (34 credits)  AAS-Associate of Applied Science (60 credits)

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES

What would I do as a machinist?

• Set up and operate manual and CNC machinery to produce mission-critical parts used in all segments of the advanced manufacturing industry
• Use effective print reading and precision measurement skills to ensure all part dimensions are in tolerance
• Use team communication skills to solve real-world problems and bring about continuous improvement

Job opportunities for machinists are widely available. Work for companies like:
• Sullair
• Josam
• Urschel Laboratories
• Task Force Tips
• The Gund Company

SALARY OUTLOOK

$51,521

*Data is Average Annual Salary Specific to Indiana

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Campus Main Line: (219) 464-8514
# MACHINE TOOL TECHNOLOGY

## Completion Guide

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<tbody>
<tr>
<td>FALL Term 1</td>
<td>MTTC 101: Introduction to Machining (3 cr CT)</td>
<td>MTTC 102: Turning Processes I (3 cr CT)</td>
<td>MTTC 106: Print Interpretation (3 cr CT)</td>
<td>MTTC 107: CNC Set Up &amp; Operations (3 cr CT)</td>
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<tr>
<td>FALL Term 2</td>
<td>MTTC 103: Milling Processes I (3 cr CT)</td>
<td>IVYT 113: Student Success in Technology (1 cr TC)</td>
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<td>SPRING Term 3</td>
<td>MTTC 208: CNC Mill Programming (3 cr CT)</td>
<td>MATH 122: Applied Technical Mathematics (3 cr TC)</td>
<td>MTTC 105: Abrasive Processes (3 cr CT)</td>
<td>MTTC 220: CAD/CAM I (3 cr TC)</td>
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<td>SPRING Term 4</td>
<td>MTTC 209: CNC Lathe Programming (3 cr TC)</td>
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## COURSE OPTIONS

**Certificate (21 Credit Hours)**

- ADMF 101: Key Principles in Advanced Manufacturing (3 cr AAS Elective*)
- ENGL 111: English Composition (3 cr AAS)
- DESN 220: 3D Computer Aided Design (3 cr AAS Elective*)

**Technical Certificate (31 Credit Hours)**

- ADMF 102: Technology in Advanced Manufacturing (3 cr AAS Elective*)
- PSYC 101: Intro to Psychology (3 cr AAS Elective*)
- COMM 104: Communication in the Workplace (3 cr TC)
- SCIN 101: Science of Energy Generation (4 cr AAS Elective*)
- MTTC 242: CNC Machining (3 cr AAS)
- MTTC 185: Multi-Axis CNC Setup & Operations (3 cr AAS Elective*)

**Associate of Applied Science (60 Credit Hours)**

- MTTC 279: Machine Tool Capstone (1 cr AAS)

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CT-Certificate (21 credits)  TC-Technical Certificate (31 credits)  AAS- Associate of Applied Science (60 credits)
FROZEN TUITION

FREE TEXTBOOKS

FREE CLASSES AFTER 12 CREDITS

Apply Today
Studying business at Ivy Tech Community College, whether it be Business (BUSN), Business Operations, Applications & Technology (BOAT), or Logistics (LOGM), develops well-rounded individuals ready to tackle anything in the business world.

Why study business at Ivy Tech Community College? To be connected with the global generation, for one. Globalization has changed the world of business. Whether we’re talking finance, marketing, entrepreneurship, economics or something in between, the study of business will open a world of possibilities.

Whether you are pursuing a certificate in your chosen field or completing the courses needed to transfer to a four-year institution, the Business Programs at Ivy Tech provide you with all those opportunities.

Choose from one of our certificates in Insurance or Human Resources or build your business courses to further your knowledge towards your Associate degree and transferable Associate degree.

Interested in taking Microsoft Office courses? Ivy Tech has the perfect opportunity. Sign up and complete your Microsoft Office Specialist Certificate.

One of the hottest demanding fields is Supply Chain Management. Our Supply Chain Management program gives the perfect opportunity to obtain your Supply Chain Management degree or receive your Certificate in the CDL Plus program.

The School of Business at the Valparaiso Campus offers an Accounting program with Associate degrees and several certificates. Whether your interest is in bookkeeping, payroll, taxes, or getting started toward a four-year degree and becoming a CPA or a CMA, Ivy Tech has the program for you. If you are interested in online course offerings, the Accounting program can be completed online as well.
The accounting program at Ivy Tech is led by CPAs with nearly 30 years of practical accounting and tax experience. Students will have the opportunity to gain real-world accounting experience by participating with the VITA office, which is a student-led professional office that e-files federal and state tax returns for taxpayers free of charge. Learn more here: https://youtu.be/6HeTJprdo0

**CAREER OPPORTUNITIES**

*What can I do with this major?*

- Accounts Payable / Accounts Receivable
- Bookkeeping
- Payroll
- Tax Preparer

**Next Level Jobs**

You may be eligible for a free certificate offered through this degree program. [Learn more](https://www.nextleveljobs.org/)

**SALARY OUTLOOK**

$49,324

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## 8-WEEK SESSIONS

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>FALL Term 1</td>
<td>BUSN 101: Introduction to Business (3 cr) TC/AAS</td>
<td>IVYT 111: Student Success (1 cr) TC/AAS</td>
<td>ACCT 101: Financial Accounting (3 cr) CT/TC/AAS</td>
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<tr>
<td>FALL Term 2</td>
<td>ACCT 106: Payroll Accounting (3 cr) CT/TC/AAS</td>
<td>ACCT 205: Income Tax (3 cr) CT/TC/AAS</td>
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<td>SPRING Term 3</td>
<td>BOAT 218: Microsoft Excel (3 cr) CT/TC/AAS</td>
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<td>ACCT 102: Managerial Accounting (3 cr) CT/TC/AAS</td>
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<td>SPRING Term 4</td>
<td>ENGL 111: English Composition (3 cr) TC/AAS</td>
<td>ACCT 122: Accounting Systems Applications (3 cr) CT/TC/AAS</td>
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### Earned

#### Certificate (21 Credit Hours)
- SOCI 111: Introductory Sociology (3 cr) TC/AAS
- ACCT 118: Financial Concepts for Accounting (3 cr) TC/AAS Elective*

#### Technical Certificate (31 Credit Hours)
- BUSN 201: Business Law (3 cr) AAS
- COMM 101: Fundamentals of Public Speaking (3 cr) AAS
- MATH 123: Quantitative Reasoning (3 cr) AAS
- ACCT 201: Intermediate Accounting I (3 cr) AAS
- ACCT 203: Cost Accounting I (3 cr) AAS
- BIOL 101: Introductory Biology (3 cr) AAS
- BUSN 108: Personal Finance (3 cr) AAS Elective*
- ECON 201: Principles of Macroeconomics (3 cr) AAS
- BUSI 279: School of Business Evaluation (2 cr) AAS

### Earned

#### Associate of Applied Science (60 Credit Hours)
- CT-Certificate (21 credits)
- TC-Technical Certificate (31 credits)
- AAS-Associate of Applied Science (60 credits)

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
The Business Operations, Applications and Technology (BOAT) Program prepares students for a career as an administrative professional in a world of emerging technologies. Our students develop communication, organization, leadership and technology skills that prepare them for a world-class work environment. Our students also develop proficiency in the latest Microsoft Office applications, and they will have the opportunity to earn certifications in Word, Excel, Access, PowerPoint and Outlook that are recognized worldwide.

Work in an office environment in a wide range of disciplines:
- Customer Service
- Healthcare
- Law
- Government
- And More!

Next Level Jobs
You may be eligible for a free certificate offered through this degree program.

SALARY OUTLOOK

$41,233

*Data is Average Annual Salary Specific to Indiana

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Academic Advisor:
Stefani Trajceski: strajceski@ivytech.edu; (219) 476-4762

Career Coach:
Cindi Czapla: cczapla@ivytech.edu; (219) 476-4757

Campus Main Line: (219) 464-8514
## Business Operations, Applications & Technology
### Completion Guide
#### 8-WEEK SESSIONS
<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td>BOAT 101: Microsoft Outlook (3 cr) CT/TC/AAS</td>
<td>BOAT 105: Microsoft Word (3 cr) CT/TC/AAS</td>
<td>IVYT 111: Student Success (1 cr) TC/AAS</td>
</tr>
<tr>
<td><strong>FALL Term 2</strong></td>
<td>BOAT 109: Microsoft PowerPoint (3 cr) CT/TC/AAS</td>
<td>BOAT 214: Microsoft Project (3 cr) CT/TC/AAS</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING Term 3</strong></td>
<td>BOAT 218: Microsoft Excel (3 cr) CT/TC/AAS</td>
<td>BOAT 222: Microsoft Access (3 cr) CT/TC/AAS</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING Term 4</strong></td>
<td>ENGL 111: English Composition (3 cr) TC/AAS</td>
<td>BOAT 121: Office Procedures &amp; Team Dynamics (3 cr) TC/AAS</td>
<td></td>
</tr>
</tbody>
</table>

#### EARNED
**Certificate (21 Credit Hours)**
<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SUMMER Term 5</strong></td>
<td>BOAT 201: Emerging Technologies (3 cr) TC/AAS</td>
</tr>
</tbody>
</table>

#### EARNED
**Technical Certificate (31 Credit Hours)**
<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL Term 6</strong></td>
<td>BUSN 101: Introduction to Business (3 cr) AAS</td>
<td>ACCT 106: Payroll Accounting (3 cr) AAS Elective*</td>
<td>ACCT 101: Financial Accounting (3 cr) AAS 16 Weeks</td>
</tr>
<tr>
<td><strong>FALL Term 7</strong></td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr) AAS</td>
<td>MATH 123: Quantitative Reasoning (3 cr) AAS</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING Term 8</strong></td>
<td>BOAT 221: Organizational Leadership (3 cr) AAS</td>
<td>ECON 201: Principles of Macroeconomics (3 cr) AAS</td>
<td>BIOL 101: Introductory Biology (3 cr) AAS 16 Weeks</td>
</tr>
<tr>
<td><strong>SPRING Term 9</strong></td>
<td>SOCI 111: Introductory Sociology (3 cr) AAS</td>
<td>BUSI 279: School of Business Evaluation (2 cr) AAS</td>
<td></td>
</tr>
</tbody>
</table>

#### EARNED
**Associate of Applied Science (60 Credit Hours)**

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
The principles taught through the Ivy Tech Business Administration program are threaded in all industries including nonprofit business and education. Students will create marketing plans, budgets, websites, simulations, case-studies and community connections. The Business Administration program at Ivy Tech also partners with many local businesses to give students the experience and exposure in the business world that they will need to be successful.

Graduates of our Associate of Science (AS) degree can seamlessly transfer to a four-year institution through our "Transfer as a Junior" program, entering at a junior status. To learn more about our Transfer as a Junior programs, and how they can save you money, visit our TSAP page. Please keep in mind, you will also need to be admitted to the four-year institution you intend to transfer to; admission is not guaranteed just by enrolling in a Transfer as a Junior program.

Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

YOU'VE GOT QUESTIONS; WE'VE GOT ANSWERS

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Career Coach:
Cindi Czapla: cczapla@ivytech.edu; (219) 476-4757

Campus Main Line: (219) 464-8514
# Business Administration Completion Guide

## 8-WEEK SESSIONS

<table>
<thead>
<tr>
<th>Term</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL Term 1</td>
<td>BUSN 101: Introduction to Business</td>
<td>ENGL 111: English Composition</td>
<td>IVYT 111: Student Success</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(3 cr) CT/TC/AAS</td>
<td>(3 cr) CT/TC/AAS</td>
<td>(1 cr) CT/TC/AAS</td>
<td></td>
</tr>
<tr>
<td>FALL Term 2</td>
<td>BUSN 105: Principles of Management</td>
<td>BUSN 106: Customer Service</td>
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</tr>
<tr>
<td></td>
<td>(3 cr) CT/TC/AAS</td>
<td>(3 cr) CT/TC/AAS</td>
<td></td>
<td></td>
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<tr>
<td>SPRING Term 3</td>
<td>CINS 101: Introduction to Microcomputers</td>
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<td>ACCT 101: Financial Accounting</td>
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<tr>
<td></td>
<td>(3 cr) TC/AAS</td>
<td></td>
<td>(3 cr) CT/TC/AAS</td>
<td></td>
</tr>
<tr>
<td>SPRING Term 4</td>
<td>SOCI 111: Introductory Sociology</td>
<td>BUSN 201: Business Law</td>
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<td></td>
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<tr>
<td></td>
<td>(3 cr) AAS</td>
<td>(3 cr) TC/AAS</td>
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</table>

## Earned

### Certificate (21 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUMMER Term 5</td>
<td>BUSN 108: Personal Finance</td>
<td>BUSN 207: International Business</td>
</tr>
<tr>
<td></td>
<td>(3 cr) TC/AAS Elective*</td>
<td>(3 cr) TC/AAS Elective*</td>
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</table>

## Earned

### Technical Certificate (31 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL Term 6</td>
<td>COMM 101: Fundamentals of Public Speaking</td>
<td>BUSN 120: Business Ethics &amp; Social Response</td>
<td>ACCT 102: Managerial Accounting</td>
</tr>
<tr>
<td></td>
<td>(3 cr) AAS</td>
<td>(3 cr) AAS Elective*</td>
<td>(3 cr) AAS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>16 Weeks</td>
</tr>
<tr>
<td>FALL Term 7</td>
<td>BUSN 202: Human Resource Management</td>
<td>MATH 123: Quantitative Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(3 cr) AAS</td>
<td>(3 cr) AAS</td>
<td></td>
</tr>
<tr>
<td>SPRING Term 8</td>
<td>MKTG 101: Principles of Marketing</td>
<td>ECON 201: Principles of Macroeconomics I</td>
<td>BIOL 101: Introductory Biology</td>
</tr>
<tr>
<td></td>
<td>(3 cr) AAS</td>
<td>(3 cr) AAS</td>
<td>(3 cr) AAS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>16 Weeks</td>
</tr>
<tr>
<td>SPRING Term 9</td>
<td>BUSN 204: Strategic Management</td>
<td>BUSI 279: School of Business Evaluation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(3 cr) AAS</td>
<td>(2 cr) AAS</td>
<td></td>
</tr>
</tbody>
</table>

## Earned

### Associate of Applied Science (60 Credit Hours)

- CT-Certificate (21 credits)
- TC-Technical Certificate (31 credits)
- AAS-Associate of Applied Science (60 credits)

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
Ivy Tech’s Supply Chain Management Program prepares students to enter the workforce with the skills demanded in industry. It addresses the movement and storage of raw materials, work-in-process inventory, analysis and finished goods. Students are able to study and familiarize themselves with the high technologies and information systems used to track goods and increase efficiencies.

**CAREER OPPORTUNITIES**

*What can I do with this major?*

- Supply Chain Analyst
- Transportation Planner
- Inventory Control
- Buyer

Watch a video about the Supply Chain career field and educational opportunities at Ivy Tech here: [https://www.youtube.com/watch?v=NoYZUVKXNQQ](https://www.youtube.com/watch?v=NoYZUVKXNQQ)

**SALARY OUTLOOK**

$47,086

*Data is Average Annual Salary Specific to Indiana

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For a good-paying job, invest in your education! With an associate degree from Ivy Tech Community College, you’ll earn an average $8,000 more each year than you would with just a high school diploma.

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Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# Supply Chain Management Completion Guide

## 8-Week Sessions

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL Term 1</td>
<td>LOGM 127: Introduction to Logistics (3 cr) CT/TC/AAS</td>
</tr>
<tr>
<td>FALL Term 2</td>
<td>LOGM 227: Supply Chain Management (3 cr) CT/TC/AAS</td>
</tr>
<tr>
<td>SPRING Term 3</td>
<td>LOGM 229: Transportation Systems (3 cr) CT/TC/AAS</td>
</tr>
<tr>
<td>SPRING Term 4</td>
<td>BOAT 207: Integrated Microsoft Applications (3 cr) CT/TC/AAS</td>
</tr>
</tbody>
</table>

## Certificate (21 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUMMER Term 5</td>
<td>ACCT 101: Financial Accounting (3 cr) TC/AAS</td>
</tr>
<tr>
<td>BUSN 105: Principles of Management (3 cr) TC/AAS</td>
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</tr>
</tbody>
</table>

## Technical Certificate (31 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL Term 6</td>
<td>ENGL 111: English Composition (3 cr) AAS</td>
</tr>
<tr>
<td>BUSN 101: Introduction to Business (3 cr) AAS Elective*</td>
<td></td>
</tr>
<tr>
<td>BOAT 218: Microsoft Excel (3 cr) AAS Elective*</td>
<td></td>
</tr>
<tr>
<td>FALL Term 7</td>
<td>BUSN 202: Human Resource Management (3 cr) AAS Elective*</td>
</tr>
<tr>
<td>MATH 123: Quantitative Reasoning (3 cr) AAS</td>
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</tr>
<tr>
<td>SPRING Term 8</td>
<td>MKTG 101: Principles of Marketing (3 cr) AAS Elective*</td>
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<td>BIOL 101: Introductory Biology (3 cr) AAS 16 Weeks</td>
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<td>SPRING Term 9</td>
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<tr>
<td>BUSI 279: School of Business Evaluation (2 cr) AAS</td>
<td></td>
</tr>
</tbody>
</table>

## Associate of Applied Science (60 Credit Hours)

- CT-Certificate (21 credits)
- TC-Technical Certificate (31 credits)
- AAS-Associate of Applied Science (60 credits)

*Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.*
Ivy+

FROZEN TUITION
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FREE CLASSES AFTER 12 CREDITS

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The Criminal Justice program gives students the opportunity to work and learn from professionals in the field to prepare students for careers or transfer to a four-year institution. Graduates of our Associate of Science degree can transfer through our “Transfer as a Junior” program. Criminal Justice students can choose to focus on several different area of studies: Law Enforcement, Corrections/Probation, Court Services, Public, Private & Business Security, and Forensics. Our Criminal Justice program at the Valparaiso Campus offers students courses with the industry-leading MILO Range simulation training. The MILO Virtual is a simulation training system provider for government, military, law enforcement, and police agencies, for critical incident training, de-escalation, decision support training, traditional tactical judgmental training, and firearms proficiency training.

If you’re interested in studying law, the Legal Studies program is your starting point. Learn from professionals from the field about government structures, legal research & writing, civil procedure & litigation, and legal ethics. The Legal Studies program offers students the ability to transfer to a four-year program in a variety of different disciplines: Paralegal, Legal Studies, Law in Liberal Arts and other Bachelor programs.

Homeland Security students have the opportunity to learn about Homeland Security and Public Safety, learning about terrorist threats, emergency response & recovery, or government agencies. Students have the opportunity to encounter potential employers that include fire departments, EMS agencies, law enforcement agencies, hospitals, industrial safety departments, Transportation Security Administration, and emergency government offices.

The Human Services program at the Valparaiso Campus is known for its practical experience with clients and for getting active in the community. We have courses that teach students theories of counseling, how to complete intakes and assessments, how to facilitate groups, how to build and finance new programs, and how the physical and sociocultural environment affects individual development. Additionally, our program provides two 16-week internships, where students learn how to apply all they have learned. All of this makes Human Services graduates in high demand! Working with these partners, students often find themselves employed immediately following graduation. Human Services is a great program for anyone to follow who wants to be on the front lines helping others.
The Criminal Justice Program gives students the opportunity to work and learn from professionals and scholars in the fields of Private and Business Security, Law Enforcement, Investigation, Court Services, Corrections, Probation, and Parole at the local, state, and federal levels. You may experience crime labs, court rooms, probation, community corrections, correctional facilities, jails, drug courts, and investigative techniques that include physical evidence, psychological profiles, and cyber forensics, as well as private and business security.

CAREER OPPORTUNITIES

What can I do with this major?

- Law Enforcement
- Corrections/Probation
- Court Services
- Private Security

SALARY OUTLOOK

$39,590

*Data is Average Annual Salary Specific to Indiana

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Campus Main Line: (219) 464-8514
# Criminal Justice Completion Guide

## 8-WEEK SESSIONS

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 4</th>
<th>Term 5</th>
<th>Term 6</th>
<th>Term 7</th>
<th>Term 8</th>
<th>Term 9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
<td><strong>FALL</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SUMMER</strong></td>
<td><strong>FALL</strong></td>
<td><strong>FALL</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SPRING</strong></td>
</tr>
<tr>
<td>CRIM 101: Intro to Criminal Justice (3 cr) TC/AAS</td>
<td>CRIM 105: Intro to Criminology (3 cr) TC/AAS</td>
<td>CRIM 110: Intro to Law Enforcement (3 cr) TC/AAS</td>
<td>CRIM 120: Intro to Courts (3 cr) TC/AAS</td>
<td>CRIM 113: Criminal Investigation (3 cr) TC/AAS Elective*</td>
<td>CRIM 150: Juvenile Justice System (3 cr) AAS</td>
<td>CRIM 155: Introduction to Cyber Forensics (3 cr) AAS Elective*</td>
<td>SOCI 111: Introductory Sociology (3 cr) TC/AAS</td>
<td>CRIM 204: Interview and Interrogation (3 cr) AAS Elective*</td>
</tr>
<tr>
<td>CRIM 103: Cultural Awareness (3 cr) TC/AAS</td>
<td>ENG 111: English Composition (3 cr) TC/AAS</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr) TC/AAS</td>
<td>CRIM 130: Intro to Corrections (3 cr) TC/AAS</td>
<td>CRIM 117: Introduction to Forensics (3 cr) TC/ AAS Elective*</td>
<td>CRIM 201: Ethics in Criminal Justice (3 cr) AAS</td>
<td>CRIM 211: Criminal Law (3 cr) AAS</td>
<td>CRIM 171: Drugs &amp; Justice (3 cr) AAS Elective*</td>
<td>CRIM 260: Research Methods in Criminal Justice (3 cr) AAS</td>
</tr>
<tr>
<td>IVYT 111: Student Success (1 cr) TC/AAS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MATH 123: Quantitative Reasoning (3 cr) AAS</td>
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<td>BIOL 101: Introductory Biology (3 cr) AAS</td>
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</tr>
</tbody>
</table>

## Earned

### Technical Certificate (30 Credit Hours)

<table>
<thead>
<tr>
<th>Term 6</th>
<th>Term 7</th>
<th>Term 8</th>
<th>Term 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM 150: Juvenile Justice System (3 cr) AAS</td>
<td>CRIM 201: Ethics in Criminal Justice (3 cr) AAS</td>
<td>MATH 123: Quantitative Reasoning (3 cr) AAS</td>
<td></td>
</tr>
<tr>
<td>CRIM 155: Introduction to Cyber Forensics (3 cr) AAS Elective*</td>
<td>CRIM 211: Criminal Law (3 cr) AAS</td>
<td></td>
<td>CRIM 151: Juvenile Justice System (3 cr) AAS</td>
</tr>
<tr>
<td>SOCI 111: Introductory Sociology (3 cr) TC/AAS</td>
<td>CRIM 171: Drugs &amp; Justice (3 cr) AAS Elective*</td>
<td>BIOL 101: Introductory Biology (3 cr) AAS</td>
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</tbody>
</table>

### Associate of Applied Science (60 Credit Hours)

<table>
<thead>
<tr>
<th>Term 10</th>
<th>Term 11</th>
<th>Term 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIM 204: Interview and Interrogation (3 cr) AAS Elective*</td>
<td>CRIM 260: Research Methods in Criminal Justice (3 cr) AAS</td>
<td></td>
</tr>
</tbody>
</table>

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
Choosing the Homeland Security & Public Safety Program allows students the opportunity to explore a career with many facets. This profession serves local communities to both state and federal agencies. Students in this program will study and learn about the various components of Homeland Security and Public Safety, whether it is learning about terrorist threats, emergency response and recovery, or governmental agencies. Students will obtain the knowledge and skills necessary to prepare them for their career of choice.

CAREER OPPORTUNITIES

What can I do with this major? Work for:

- Fire Departments
- Law Enforcement Agencies
- Transportation Security Administration

SALARY OUTLOOK

$50,212

*Data is Average Annual Salary Specific to Indiana

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<table>
<thead>
<tr>
<th>8-WEEK SESSIONS</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td>HSPS 101: Intro to Homeland Security (3 cr) CT/TC/AAS</td>
<td>ENGL 111: English Composition (3 cr) TC/AAS</td>
<td>IVYT 111: Student Success (1 cr) TC/AAS</td>
<td></td>
</tr>
<tr>
<td><strong>FALL Term 2</strong></td>
<td>HSPS 102: Intro to Public Safety (3 cr) CT/TC/AAS</td>
<td>MATH 123: Quantitative Reasoning (3 cr) AAS</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SPRING Term 3</strong></td>
<td>HSPS 111: Principles of Emergency Management (3 cr) CT/TC/AAS</td>
<td>HSPS 120: Incident Management System (3 cr) CT/TC/AAS</td>
<td>HSPS 121: Intro to Hazardous Materials (3 cr) TC/AAS</td>
<td></td>
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<tr>
<td><strong>SPRING Term 4</strong></td>
<td>HSPS 220: Incident Management System II (3 cr) CT/TC/AAS</td>
<td>HSPS 270: Contingency Planning (3 cr) CT/TC/AAS</td>
<td>HSPS 204: Homeland Security &amp; Public Safety (3 cr) TC</td>
<td></td>
</tr>
</tbody>
</table>

### Earned

- **Certificate (18 Credit Hours)**
  - **SUMMER Term 5**
    - HSPS 104: Intro to Environmental (3 cr) TC/AAS
    - HSPS 110: Computer Applications in Homeland Security (3 cr) TC/AAS

- **Technical Certificate (31 Credit Hours)**
  - **FALL Term 6**
    - CRIM 101: Introduction to Criminal Justice (3 cr) AAS
    - COMM 101: Fundamentals of Public Speaking (3 cr) AAS
  - **FALL Term 7**
    - BUSN 105: Principles of Management (3 cr) AAS
    - BIOL 101: Introductory Biology (3 cr) AAS
  - **SPRING Term 8**
    - HSPS 202: Risk Management (3 cr) AAS
    - SCIN 111: Physical Science (3 cr) AAS
  - **SPRING Term 9**
    - SOCI 164: Multicultural Studies (3 cr) AAS
    - HSPS 280: Internship (3 cr) AAS
    - HSPS 279: Capstone (2 cr) AAS

- **Associate of Applied Science (60 Credit Hours)**

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
The Ivy Tech Human Services program is geared toward helping students develop the skills, attitudes and knowledge needed for the helping professions. Students will spend the majority of their time interacting and doing problem-based activities, getting involved in case studies and experiences that will prepare them to provide feedback as human services professionals. Students will participate in job shadowing and community service opportunities. All degrees include two internships with direct hands-on learning opportunities.

CAREER OPPORTUNITIES

What can I do with this major?

- Case Manager
- Youth Services
- Addiction Services
- Elder Services

SALARY OUTLOOK

$28,120

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Dejan Ristevski: dristevski@ivytech.edu; ext. 3066

Academic Advisor:
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Program Chair:
Don Spears: dspears18@ivytech.edu; ext. 3039

Career Coach:
Cindi Czapla: cczapla@ivytech.edu; (219) 476-4757

Campus Main Line: (219) 464-8514
<table>
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<th>Term</th>
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<td>HUMS 103: Interviewing &amp; Assessment</td>
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<td>PHIL 101: Intro to Philosophy</td>
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<td></td>
<td>HUMS 102: Helping Relationship Techniques</td>
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<td>ENGL 111: English Composition</td>
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<td>MATH 123: Quantitative Reasoning</td>
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<td>HUMS 206: Group Process &amp; Skills</td>
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<td>COMM 101: Intro to Public Speaking</td>
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<td>HUMS 207: Program Planning &amp; Policy Issues</td>
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<td>GTL R 1/19 Internship I</td>
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<td>SOCI 164: Multicultural Studies</td>
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<td>HUMS 220: Issues &amp; Ethics in Human Services</td>
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<td>HUMS 269: Human Development &amp; Ecological Systems</td>
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</table>

**Earned**

**Associate of Science, Transfer as a Junior/Social Work (60 Credit Hours)**

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
TRANSFER OPPORTUNITIES

Designed as a transfer program, this major can lead to degrees in:

- Legal Studies/Law
- Organizational Management
- Political Science

SALARY OUTLOOK

$44,343

*Data is Average Annual Salary Specific to Indiana

Working Toward Your Bachelor’s Degree?

Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS

Dean:
Dejan Ristevski: dristevski@ivytech.edu; ext. 3066

Department Chair:
Nicole Fech: nfech@ivytech.edu; ext. 8514

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Career Coach:
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<table>
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<td>LEGS 102: Legal Research</td>
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<td>LEGS 155: Law Office Technology</td>
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<td>LEGS 211: Criminal Law</td>
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**EARNED**  
**Certificate (18-21 Credit Hours)**

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<td>SUMMER Term 5</td>
<td>LEGS 202: Litigation</td>
<td>LEGS 209: Family Law</td>
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**EARNED**  
**Technical Certificate (30-31 Credit Hours)**

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<td>FALL Term 6</td>
<td>LEGS 107: Contracts &amp; Commercial Law</td>
<td>MATH 123: Quantitative Reasoning</td>
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<td>(3 cr) AAS</td>
<td>(3 cr) AAS</td>
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<tr>
<td>FALL Term 7</td>
<td>LEGS 205: Business Associations</td>
<td>LEGS 108: Property Law</td>
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<td>(3 cr) AAS</td>
<td>(3 cr) TC/AAS Elective*</td>
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<td>SPRING Term 8</td>
<td>ENGL 211: Technical Writing</td>
<td>COMM 101: Fundamentals of Public Speaking</td>
<td>SOCI 111: Introductory Sociology</td>
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<td>BIOL 101: Introductory Biology</td>
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<td>(3 cr) AAS</td>
<td>(2 cr) AAS</td>
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**EARNED**  
**Associate of Applied Science (60 Credit Hours)**

- CT-Certificate (18 credits)
- TC-Technical Certificate (31 credits)
- AAS-Associate of Applied Science (60 credits)

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
FROZEN TUITION
FREE TEXTBOOKS
FREE CLASSES AFTER 12 CREDITS

Apply Today
The School of Health Sciences offers a wide variety of high-wage, high-demand programs. Employment in healthcare occupations is projected to grow 16 percent from 2020 to 2030, much faster than the average for all occupations, adding about 2.6 million new jobs. Healthcare occupations are projected to add more jobs than any of the other occupational groups (U. S. Bureau of Labor Statistics, 2021).

At the Ivy Tech Valparaiso Campus, we have programs in Surgical Technology, Paramedic Science, Medical Assisting, and other Healthcare Specialties, including EKG Technician, Pharmacy Technician, Phlebotomy Technician, Nursing Assistant, and Central Service Technician.

The Valparaiso Campus has many state-of-the-art labs that are designed to provide students pursuing healthcare careers a safe and realistic environment to learn patient care skills. Our programs integrate interprofessional simulation experiences whenever possible to improve collaboration and facilitate communication among healthcare professionals. Our clinical partnerships with area healthcare providers allow students to apply clinical skills in patient care situations.

If you have a passion for helping others, you are compassionate and understanding, and also a good listener, a career in healthcare may be for you. It's a beautiful thing when a career and a passion come together!
HEALTHCARE SPECIALIST (CNA & DEMENTIA CARE)

Students in the Healthcare Specialist program are able to study a wide variety of certification options, including Dementia Care, Phlebotomy, Pharmacy Technician, Certified Nursing Aide, and more. Students receive clinical hands-on practice in actual healthcare settings, with a mix of classroom and lab experience. Pharmacy technician labs use state-of-the-art equipment. Phlebotomy students receive hands-on training with a 100-hour externship in an approved lab setting.

CAREER OPPORTUNITIES

What can I do with this major?

- Dementia Care
- Phlebotomy
- Pharmacy Technician
- CNA

SALARY OUTLOOK

$35,828

*Data is Average Annual Salary Specific to Indiana

EARN MORE & IMPROVE YOUR SKILLS

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<table>
<thead>
<tr>
<th>Term</th>
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</thead>
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<tr>
<td>FALL Term 1</td>
<td>HLHS 107: CNA Preparation (5 cr)</td>
<td>HLHS 131: Introduction to Infection Control (1 cr)</td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
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<td>HLHS 113: Dementia Care (3 cr)</td>
<td>HLHS 121: Customer Relations in Healthcare (3 cr)</td>
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<td>HLHS 101: Medical Terminology (3 cr)</td>
<td>APHY 101: Anatomy &amp; Physiology I (3 cr)</td>
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<td>SPRING Term 4</td>
<td>HLHS 100: Intro to Health Careers (3 cr)</td>
<td>APHY 102: Anatomy &amp; Physiology II (3 cr)</td>
<td>HLHS 105: Medical Law &amp; Ethics (3 cr)</td>
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<td><strong>Technical Certificate in Healthcare Specialist</strong></td>
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<td><strong>(30 Credit Hours)</strong></td>
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<td>HLHS 118: Diversity in Healthcare (3 cr)</td>
<td>HLHS 111: Health &amp; Wellness for Life (3 cr)</td>
<td>MATH 123: Quantitative Reasoning (3 cr)</td>
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<td>MEAS 242: Disease Conditions (3 cr)</td>
<td>HLHS 211: Nutrition (3 cr)</td>
<td>HLHS 103: Dosage Calculation (1 cr)</td>
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<td>CINS 101: Introduction to Microcomputers (3 cr)</td>
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<td>HLHS 279: Healthcare Support Capstone (1 cr)</td>
<td>COMM 102: Introduction to Interpersonal Communication (3 cr)</td>
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<td><strong>Associate of Science in Healthcare Specialist</strong></td>
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Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
HEALTHCARE SPECIALIST
(CNA & DEMENTIA CARE)

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CAREER OPPORTUNITIES

What can I do with this major?

- Dementia Care
- Phlebotomy
- Pharmacy Technician
- CNA

SALARY OUTLOOK

$35,828

*Data is Average Annual Salary Specific to Indiana

Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

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Campus Main Line: (219) 464-8514
## HEALTHCARE SPECIALIST
### CNA + DEMENTIA CARE
#### Completion Guide

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<td>HLHS 107: CNA Preparation (5 cr)</td>
<td>HLHS 118: Diversity in Healthcare (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
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<td>HLHS 113: Dementia Care (3 cr)</td>
<td>HLHS 121: Customer Relations in Healthcare (3 cr)</td>
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<td>HLHS 101: Medical Terminology (3 cr)</td>
<td>HLHS 102: Essentials of Anatomy &amp; Physiology (3 cr)*</td>
<td>ENGL 111: English Composition (3 cr)</td>
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<td>HLHS 100: Intro to Health Careers (3 cr)</td>
<td>HLHS 105: Medical Law &amp; Ethics (3 cr)</td>
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### EARNED
**Technical Certificate in Healthcare Specialist (30 Credit Hours)**

*APHY 101 + APHY 102 can be substituted for HLHS 102.*

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Students in the Healthcare Specialist program are able to study a wide variety of certification options, including Dementia Care, Phlebotomy, Pharmacy Technician, Certified Nursing Aide, EKG and more. Students receive clinical hands-on practice in actual healthcare settings, with a mix of classroom and lab experience. Pharmacy technician labs use state-of-the-art equipment. Phlebotomy students receive hands-on training with a 100-hour externship in an approved lab setting.

WHAT CAN I DO WITH THIS MAJOR?

- Dementia Care
- EKG

Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

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<td>HLHS 105: Medical Law &amp; Ethics (3 cr)</td>
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<td>CARD 205: Introduction to Electrocardiography (3 cr)</td>
<td>HLHS 121: Customer Relations in Healthcare (3 cr)</td>
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<td><strong>SPRING</strong> Term 4</td>
<td>CARD 206: Advanced Electrocardiography Technique (3 cr)</td>
<td>HLHS 113: Dementia Care (3 cr)</td>
<td>HLHS 131: Infection Control (1 cr)</td>
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<td>CARD 208: ECG Experiential Seminar (3 cr)</td>
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**EARNED**

**Earned in Healthcare Specialist (30 Credit Hours)**

**FALL** Term 6

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<td>MATH 123: Quantitative Reasoning (3 cr)</td>
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<td>HLHS 211: Nutrition (3 cr)</td>
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<td>HLHS 100: Introduction to Health Careers (3 cr)</td>
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**EARNED**

**Associate of Science in Healthcare Specialist (60 Credit Hours)**

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
CAREER OPPORTUNITIES

What can I do with this major?

- Dementia Care
- EKG

Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

SALARY OUTLOOK

$35,828

*Data is Average Annual Salary Specific to Indiana

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Campus Main Line: (219) 464-8514
<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>FALL T1</td>
<td>HLHS 102: Essentials of Anatomy &amp; Physiology</td>
<td>3</td>
<td>Medical Terminology</td>
</tr>
<tr>
<td>FALL T2</td>
<td>HLHS 100: Introduction to Health Careers</td>
<td>3</td>
<td>Medical Law &amp; Ethics</td>
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<tr>
<td>SPRING T3</td>
<td>CARD 205: Introduction to Electrocardiography</td>
<td>3</td>
<td>Customer Relations in Healthcare</td>
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<tr>
<td>SPRING T4</td>
<td>CARD 206: Advanced Electrocardiography Technique</td>
<td>3</td>
<td>Dementia Care</td>
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<tr>
<td>SUMMER T5</td>
<td>CARD 208: ECG Experiential Seminar</td>
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</table>

**Earned in Healthcare Specialist (30 Credit Hours)**

*APHY 101 + APHY 102 can be substituted for HLHS 102. Some courses may be offered at various times or course modality. Please speak to your advisor for those options.*
Students in the Healthcare Specialist program are able to study a wide variety of certification options, including Dementia Care, Phlebotomy, Pharmacy Technician, Certified Nursing Aide, and more. Students receive clinical hands-on practice in actual healthcare settings, with a mix of classroom and lab experience. Pharmacy technician labs use state-of-the-art equipment. Phlebotomy students receive hands-on training with a 100-hour externship in an approved lab setting.

**CAREER OPPORTUNITIES**

*What can I do with this major?*

- Dementia Care
- Pharmacy Technician

**SALARY OUTLOOK**

$35,828

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**Next Level Jobs**

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<tr>
<th>COURSE</th>
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<tr>
<td>APHY 101: Anatomy &amp; Physiology I (3 cr)</td>
<td>HLHS 101: Medical Terminology (3 cr)</td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
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<tr>
<td>APHY 102: Anatomy &amp; Physiology II (3 cr)</td>
<td>HLHS 105: Medical Law &amp; Ethics (3 cr)</td>
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<tr>
<td>PHAR 210: Pharmacy Technician Concepts (4 cr)</td>
<td>HLHS 115: Pharmacology for Healthcare Support (3 cr)</td>
<td>HLHS 103: Dosage Calculation (1 cr) recommended</td>
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<tr>
<td>HLHS 121: Customer Relations in Healthcare (3 cr)</td>
<td>PHARM 211: Pharmacy Technician Experimental Seminar (3 cr)</td>
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**EARNED**

Technical Certificate in Healthcare Specialist *(30 Credit Hours)*

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>HLHS 111: Health &amp; Wellness for Life (3 cr)</td>
<td>MATH 123: Quantitative Reasoning (3 cr)</td>
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<tr>
<td>HLHS 211: Nutrition (3 cr)</td>
<td>HLHS 118: Diversity in Healthcare (3 cr)</td>
<td>HLHS 100: Introduction to Health Careers (3 cr)</td>
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<tr>
<td>CINS 101: Introduction to Microcomputers (3 cr)</td>
<td>HLHS 113: Dementia Care (3 cr)</td>
<td>PSYC 101: Introduction to Psychology (3 cr)</td>
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</tr>
<tr>
<td>HLHS 279: Healthcare Support Capstone (1 cr)</td>
<td>COMM 102: Introduction to Interpersonal Communication (3 cr)</td>
<td>HLHS 125: Behavioral Health (3 cr)</td>
<td></td>
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</tbody>
</table>

**EARNED**

Associate of Science in Healthcare Specialist *(60 Credit Hours)*

*Some courses may be offered at various times or course modality. Please speak to your advisor for those options.*
CAREER OPPORTUNITIES

What can I do with this major?

• Dementia Care
• Pharmacy Technician

SALARY OUTLOOK

$35,828

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Next Level Jobs

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Next Level Jobs
Indiana

 campus Main Line: (219) 464-8514
### HEALTHCARE SPECIALIST

#### PHARMACY TECH

**Completion Guide**

<table>
<thead>
<tr>
<th>8-WEEK SESSIONS</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td>HLHS 102: Essentials of Anatomy &amp; Physiology (3 cr)*</td>
<td>HLHS 101: Medical Terminology (3 cr)</td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
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<td><strong>FALL Term 2</strong></td>
<td>HLHS 100: Introduction to Health Careers (3 cr)</td>
<td>HLHS 105: Medical Law &amp; Ethics (3 cr)</td>
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<td><strong>SPRING Term 3</strong></td>
<td>PHAR 210: Pharmacy Technician Concepts (4 cr)</td>
<td>HLHS 115: Pharmacology for Healthcare Support (3 cr)</td>
<td>HLHS 103: Dosage Calculation (1 cr) recommended</td>
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<td><strong>SPRING Term 4</strong></td>
<td>HLHS 121: Customer Relations in Healthcare (3 cr)</td>
<td>PHARM 211: Pharmacy Technician Experimental Seminar (3 cr)</td>
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**EARNED** Technical Certificate in Healthcare Specialist *(30 Credit Hours)*

*APHY 101 + APHY 102 can be substituted for HLHS 102.*

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
Students in the Healthcare Specialist program are able to study a wide variety of certification options, including Dementia Care, Phlebotomy, Pharmacy Technician, Certified Nursing Aide, EKG and more. Students receive clinical hands-on practice in actual healthcare settings, with a mix of classroom and lab experience. Pharmacy technician labs use state-of-the-art equipment. Phlebotomy students receive hands-on training with a 100-hour externship in an approved lab setting.

CAREER OPPORTUNITIES

What can I do with this major?

- Dementia Care
- Phlebotomy
- Pharmacy Technician
- CNA
- EKG

Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

SALARY OUTLOOK

$35,828

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# 8-WEEK SESSIONS

<table>
<thead>
<tr>
<th>TERM</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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<tbody>
<tr>
<td><strong>FALL</strong></td>
<td><strong>APHY 101: Anatomy &amp; Physiology I</strong> (3 cr)</td>
<td><strong>HLHS 101: Medical Terminology</strong> (3 cr)</td>
<td><strong>IVYT 111: Student Success</strong> (1 cr) 4 day recommended</td>
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<tr>
<td>Term 1</td>
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<td><strong>FALL</strong></td>
<td><strong>APHY 102: Anatomy &amp; Physiology II</strong> (3 cr)</td>
<td><strong>HLHS 121: Customer Relations in Healthcare</strong> (3 cr)</td>
<td><strong>HLHS 105: Medical Law &amp; Ethics</strong> (3 cr)</td>
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<td><strong>SPRING</strong></td>
<td><strong>PHLB 212: Phlebotomy</strong> (3 cr)</td>
<td><strong>HLHS 131: Intro to Infection Control</strong> (1 cr)</td>
<td><strong>ENGL 111: English Composition</strong> (3 cr)</td>
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<tr>
<td>Term 3</td>
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<tr>
<td><strong>SPRING</strong></td>
<td><strong>PHLB 257: Phlebotomy Externship</strong> (2 cr)</td>
<td><strong>HLHS 113: Dementia Care</strong> (3 cr)</td>
<td><strong>HLHS 100: Introduction to Health Careers</strong> (3 cr)</td>
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<tr>
<td>Term 4</td>
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## EARNED

Technical Certificate in Healthcare Specialist *(30 Credit Hours)*

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<thead>
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<th>TERM</th>
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<tr>
<td><strong>FALL</strong></td>
<td><strong>HLHS 118: Diversity in Healthcare</strong> (3 cr)</td>
<td><strong>HLHS 111: Health &amp; Wellness for Life</strong> (3 cr)</td>
<td><strong>MATH 123: Quantitative Reasoning</strong> (3 cr)</td>
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<tr>
<td><strong>FALL</strong></td>
<td><strong>MEAS 242: Disease Conditions</strong> (3 cr)</td>
<td><strong>HLHS 211: Nutrition</strong> (3 cr)</td>
<td><strong>HLHS 103: Dosage Calculation</strong> (1 cr)</td>
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<td>Term 8</td>
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## EARNED

Associate of Science in Healthcare Specialist *(60 Credit Hours)*

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CAREER OPPORTUNITIES

What can I do with this major?

- Dementia Care
- Phlebotomy
- Pharmacy Technician
- CNA
- EKG

Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

SALARY OUTLOOK

$35,828

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### HEALTHCARE SPECIALIST

**PHLEBOTOMY**

Completion Guide

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>FALL Term 1</td>
<td>HLHS 102: Essentials of Anatomy &amp; Physiology (3 cr)*</td>
<td>HLHS 101: Medical Terminology (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
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<tr>
<td>FALL Term 2</td>
<td>HLHS 100: Introduction to Health Careers (3 cr)</td>
<td>HLHS 121: Customer Relations in Healthcare (3 cr)</td>
<td>HLHS 105: Medical Law &amp; Ethics (3 cr)</td>
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<tr>
<td>SPRING Term 3</td>
<td>PHLB 212: Phlebotomy (3 cr)</td>
<td>PSYC 101: Intro to Psychology (3 cr)</td>
<td>ENGL 111: English Composition (3 cr)</td>
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<tr>
<td>SPRING Term 4</td>
<td>PHLB 257: Phlebotomy Externship (2 cr)</td>
<td>HLHS 113: Dementia Care (3 cr)</td>
<td></td>
</tr>
</tbody>
</table>
CAREER OPPORTUNITIES

What can I do with this major?
Medical Assistants work in doctor’s offices, clinics, and hospitals focusing on patient care, venipuncture, electrocardiogram, vital signs, injections, medical coding, electronic charting and medical records.
Sign-on bonuses up to $4,000!

SALARY OUTLOOK

$37,755

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* Classes required only for AAS track.
CAREER OPPORTUNITIES
What can I do with this major?
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SALARY OUTLOOK
$37,755

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Next Level Jobs
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NextLevel Jobs
INDIANA

YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS

MEDICAL ASSISTING
(OUTPATIENT INSURANCE CODING)
<table>
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<td>APHY 102: Anatomy &amp; Physiology II</td>
<td>MEAS 137: Outpatient Insurance &amp; Basic Coding</td>
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<td>SPRING Term 3</td>
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<tr>
<td>MEAS 203: Advanced Insurance Coding</td>
<td>MEAS 204: Advanced Insurance Claims Processing</td>
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</table>

EARNED Medical Assisting Outpatient Insurance Coding Certificate (18 Credit Hours)

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
CAREER OPPORTUNITIES
What can I do with this major?
Paramedic Science graduates work as ambulance paramedics, firefighter paramedics, tactical paramedics, emergency room paramedics, and even wilderness paramedics.

SALARY OUTLOOK
$34,278

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Program Chair: Yvonne Rodriguez: yrodriguez32@ivytech.edu; ext. 3050
Career Coach: Cindi Czapla: cczapla@ivytech.edu; (219) 476-4757

Campus Main Line: (219) 464-8514
## Paramedic Science Completion Guide

### 8-Week Sessions

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<thead>
<tr>
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<tr>
<td>FALL Term 1</td>
<td>APHY 101: Anatomy &amp; Physiology I (3 cr)</td>
<td>IVYT 111: Student Success (1 cr)</td>
<td>PARM 112: Pre-hospital Pharmacology (3 cr)</td>
<td>PARM 210: Medical I (6 cr)</td>
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<tr>
<td>FALL Term 2</td>
<td>PARM 111: Preparatory (3 cr)</td>
<td>PARM 116: Clinical Application I (1.5 cr)</td>
<td>PARM 200: Trauma (3 cr)</td>
<td>PARM 213: Medical II (5 cr)</td>
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<tr>
<td>SPRING Term 3</td>
<td>PARM 115: Airway Patient Assessment (3.5 cr)</td>
<td>PARM 117: Clinical Application II (1.5 cr)</td>
<td>PARM 215: Special Considerations (3.5 cr)</td>
<td>PARM 216: Clinical Applications II (1.5 cr)</td>
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<tr>
<td>SPRING Term 4</td>
<td>PARM 220: Operations (2.5 cr)</td>
<td>PARM 219: Clinical Applications III (1.5 cr)</td>
<td>PARM 221: Ambulance Internship (6 cr)</td>
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<td>SUMMER Term 5</td>
<td>PARM 200: Trauma (3 cr)</td>
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<td>FALL Term 6</td>
<td>PARM 215: Special Considerations (3.5 cr)</td>
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<td>FALL Term 7</td>
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### Earned

#### Technical Certificate (54.5 Credit Hours)

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<thead>
<tr>
<th>Term</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRING Term 8</td>
<td>MATH 123: Quantitative Reasoning (3 cr)</td>
</tr>
<tr>
<td>SPRING Term 9</td>
<td>ENGL 111: English Composition (3 cr)</td>
</tr>
<tr>
<td>SPRING Term 9</td>
<td>COMM 102: Introduction to Interpersonal Communication (3 cr)</td>
</tr>
<tr>
<td>SPRING Term 9</td>
<td>PSYC 101: Introduction to Psychology (3 cr)</td>
</tr>
</tbody>
</table>

#### Associate of Applied Science (66.5 Credit Hours)

Current Indiana EMT certificate required for admission (PARM 102).
The Surgical Technology Program is very demanding and requires a high quality of training. This is a very rewarding career in the Health Science Field. It is a technical job working in the operating room, including assisting the surgeon. Our program requires more than 900 hands-on hours of training where you will spend your time in a real operating room.

CAREER OPPORTUNITIES

What can I do with this major?
Surgical Technology graduates will be prepared to enter the workforce in the surgery field, labor and delivery, or in Central Sterile Supply.

Working Toward Your Bachelor’s Degree?
Graduates of our Associate of Applied Science (AAS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

SALARY OUTLOOK

$48,859

*Data is Average Annual Salary Specific to Indiana

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Program Chair:
Marsha Eriks: meriks@ivytech.edu; (219) 476-4702

Academic Advisor:
Stephanie Guernsey: sguernsey1@ivytech.edu; (219) 476-4759

Career Coach:
Cindi Czapla: cczapla@ivytech.edu; (219) 476-4757

Campus Main Line: (219) 464-8514
<table>
<thead>
<tr>
<th>TERM</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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<tr>
<td>FALL</td>
<td>APHY 101: Anatomy &amp; Physiology I (3 cr)</td>
<td>HLHS 101: Medical Terminology (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
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<td>Term 1</td>
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<tr>
<td>FALL</td>
<td>APHY 102: Anatomy &amp; Physiology II (3 cr)</td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>MATH 123: Quantitative Reasoning (3 cr)</td>
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<td>Term 2</td>
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<td>SPRING</td>
<td>PSYC 101: Introduction to Psychology (3 cr)</td>
<td>COMM 102: Introduction to Interpersonal Communication (3 cr)</td>
<td>BIOL 201: Microbiology (4 cr)</td>
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<td>Term 3</td>
<td>SURG 203: Surgical Pharmacology (3 cr)</td>
<td>HLHS 105: Medical Law &amp; Ethics (3 cr)</td>
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<td>Term 4</td>
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<tr>
<td>FALL</td>
<td>SURG 111: Fundamentals of Surgical Technology (4 cr)</td>
<td>SURG 112: Application of Surgical Fundamentals (2 cr)</td>
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<tr>
<td>Term 5</td>
<td>SURG 113: Surgical Procedures I (3 cr)</td>
<td>SURG 114: Clinical Applications I (3 cr)</td>
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<tr>
<td>Term 6</td>
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</tr>
<tr>
<td>FALL</td>
<td>SURG 211: Surgical Procedures II (6 cr)</td>
<td>SURG 212: Clinical Applications II (9 cr)</td>
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<tr>
<td>Term 7</td>
<td>16 weeks</td>
<td>16 weeks</td>
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<tr>
<td>SPRING</td>
<td>SURG 211: Surgical Procedures II (3 cr)</td>
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<tr>
<td>Term 8</td>
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<tr>
<td>SUMMER</td>
<td>SURG 213: Surgical Procedures III (3 cr)</td>
<td>SURG 214: Clinical Applications III (7 cr)</td>
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<tr>
<td>Term 9</td>
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<tr>
<td>EARNED</td>
<td>Associate of Applied Science (60 Credit Hours)</td>
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</tbody>
</table>

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
Ivy+

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FREE CLASSES AFTER 12 CREDITS

Apply Today
Information Technology (IT) is about using computer programs to send, retrieve, process and store information for businesses. Earning a certificate or degree in Information Technology is one of the most versatile, market-ready choices for any student ready to enter college. It provides a broad foundation and necessary skills required to work with systems that make modern life possible.

The IT programs offered at the Valparaiso Campus give students the opportunity to begin a career right after graduation. It can also provide the student with a great foundation for more advanced degrees. The courses offered also provide opportunities to earn industry-recognized certifications from data management, networking, cyber security, cloud computing, coding and programming. The School of Information Technology in the Valparaiso/Michigan City/La Porte area is a great starting point for entering into the exciting and ever-growing field of Information Technology.

The School of IT at the Valparaiso Campus is home to a Cyber Security program recognized by the Indiana Department of Education by receiving the Award of Excellence in 2019 and receiving the designation as Center of Academic Excellence (CAE-2Y) by the National Security Agency (NSA). It is also home to our high-tech Cyber Security Operations Center (bottom left), providing skills needed in the fields of Cyber Security Operations Specialist, Incident Analyst, and CyberCrime.

The Network Infrastructure Program provides students with the skills required to work as Networking Engineers, Systems Engineers or Systems Analysts. This is accomplished via access to state-of-the-art lab facilities which are equipped with routers, switches, firewalls, wireless LAN controllers and Access Points (APs). Training is also provided for software programming/coding and Website Design. Software languages taught include: JAVA, Python, C++, C#, and HTML (web design).
CAREER OPPORTUNITIES

What can I do with this major?

• Server Support Technician
• Network Server Support Analyst
• Cloud Engineer
• Cloud Support Technician

SALARY OUTLOOK

$66,597

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Cloud refers to the software and services that run on the Internet, instead of locally on your computer. Today, most data is stored in “the Cloud.” Our graduates are skilled in developing and maintaining multi-user computer systems for business, from small organizations to large enterprises. Students will learn how to unpack complex problems and systems and learn how modern organizations are dealing with ever-changing infrastructure. Students will learn about Cloud platforms Amazon Web Services (AWS) and Microsoft Azure.
# Completion Guide

## CLOUD TECHNOLOGY

### LINUX ADMINISTRATION

### 8-WEEK SESSIONS

<table>
<thead>
<tr>
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<th>Term 2</th>
<th>Term 3</th>
<th>Term 4</th>
<th>Term 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
<td><strong>FALL</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SUMMER</strong></td>
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<tr>
<td>INFM 109: Informatics Fundamentals (3 cr) CT</td>
<td>SVAD 111: Linux &amp; Virtualization Technologies (3 cr) CT</td>
<td>SVAD 116: Linux Administration I (3 cr) CT</td>
<td>SVAD 117: Workforce Prep: RHCSA Certification (1 cr) CT</td>
<td>SVAD 121: Enterprise Computing (3 cr) TC</td>
</tr>
<tr>
<td>ITSP 132: IT Essentials I (2 cr) CT</td>
<td>ITSP 134: IT Essentials II (2 cr) CT</td>
<td>SDEV 150: Cloud Technologies Fundamentals (3 cr) CT</td>
<td>SVAD 216: Linux Administration II (3 cr) CT</td>
<td>SVAD 217: Workforce Prep: RHCSA Certification (1 cr) CT</td>
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<tr>
<td>IVYT 115: Student Success (1 cr) TC</td>
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<td>SDEV 120: Computer Logic (3 cr) TC</td>
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<tr>
<td>NETI 109: Networking I (3 cr) CT 16 weeks</td>
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<td>ITSP 136: Workforce Prep: CompTIA a+ Certification (1 cr) TC 16 weeks</td>
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### EARNED

#### Certificate (25 Credit Hours)

<table>
<thead>
<tr>
<th>Term 6</th>
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<tbody>
<tr>
<td><strong>FALL</strong></td>
</tr>
<tr>
<td>ENG 111: English Composition (3 cr) TC</td>
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#### Technical Certificate (30 Credit Hours)

<table>
<thead>
<tr>
<th>Term 7</th>
<th>Term 8</th>
<th>Term 9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SPRING</strong></td>
</tr>
<tr>
<td>COMM 101: Fundamentals of Public Speaking (3 cr) AAS</td>
<td>PHIL 102: Intro to Ethics (3 cr) AAS</td>
<td>SVAD 230: Hybrid Systems (3 cr) AAS</td>
</tr>
<tr>
<td>CSIA 105: Introduction to Cyber Security (3 cr) AAS</td>
<td>SVAD 250: Linux Administration III (3 cr) AAS</td>
<td>CPIN 269: Project Management (3 cr) AAS</td>
</tr>
<tr>
<td>SCIN 111: Physical Science (3 cr) AAS</td>
<td></td>
<td>CPIN 279: CPIN Exploration &amp; Evaluation (1 cr) AAS</td>
</tr>
</tbody>
</table>

#### Associate of Applied Science (60 Credit Hours)

- **CT-Certificate (25 credits)**
- **TC-Technical Certificate (30 credits)**
- **AAS-Associate of Applied Science (60 credits)**

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES

What can I do with this major?

- Server Support Technician
- Network Server Support Analyst
- Cloud Engineer
- Cloud Support Technician

Working Toward Your Bachelor’s Degree?

Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

SALARY OUTLOOK

$66,597

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<tr>
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<tr>
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<td><strong>SPRING Term 4</strong></td>
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<td>INFM 109: Informatics Fundamentals (3 cr CT)</td>
<td>SVAD 111: Linux &amp; Virtualization Technologies (3 cr TC)</td>
<td>SVAD 121: Enterprise Computing (3 cr CT)</td>
<td>SDEV 120: Computer Logic (3 cr TC)</td>
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<tr>
<td>ITSP 132: IT Essentials I (2 cr CT)</td>
<td>ITSP 134: IT Essentials II (2 cr CT)</td>
<td>SVAD 231: Microsoft Server Administration I (3 cr CT)</td>
<td>SVAD 236: Microsoft Server Administration II (3 cr CT)</td>
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<td>IVYT 115: Student Success (1 cr TC)</td>
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<td>SVAD 231: Microsoft Server Administration I (3 cr CT)</td>
<td>ITSP 136: Workforce Prep: CompTIA a+ Certification (1 cr TC)</td>
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<td>NETI 109: Networking I (3 cr CT) 16 weeks</td>
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<td><strong>SUMMER Term 5</strong></td>
<td><strong>EARNED</strong></td>
<td><strong>EARNED</strong></td>
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<td>SVAD 150: Cloud Technologies Fundamentals (3 cr CT)</td>
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<td>Certificate (25 Credit Hours)</td>
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<td>ENG 111: English Composition (3 cr TC)</td>
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<td><strong>EARNED</strong></td>
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<td>COMM 101: Fundamentals of Public Speaking (3 cr AAS)</td>
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<td>COMM 101: Fundamentals of Public Speaking (3 cr AAS)</td>
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<td>CSIA 105: Introduction to Cyber Security (3 cr AAS)</td>
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<td>SCIN 111: Physical Science (3 cr AAS)</td>
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<td>PHIL 102: Intro to Ethics (3 cr AAS)</td>
<td>ITSP 235: Internet of Things Fundamentals (3 cr AAS)</td>
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<td>SVAD 230: Hybrid Systems (3 cr AAS)</td>
<td>CPIN 269: Project Management (3 cr AAS)</td>
<td>CPIN 269: Project Management (3 cr AAS)</td>
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<td>CPIN 279: CPIN Exploration &amp; Evaluation (1 cr AAS)</td>
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<td>CPIN 279: CPIN Exploration &amp; Evaluation (1 cr AAS)</td>
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<td><strong>Associate of Applied Science (60 Credit Hours)</strong></td>
<td><strong>Certificate (25 Credit Hours)</strong></td>
<td><strong>Technical Certificate (30 Credit Hours)</strong></td>
</tr>
</tbody>
</table>

CT-Certificate (25 credits)  
TC-Technical Certificate (30 credits)  
AAS-Associate of Applied Science (60 credits)

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES

What can I do with this major?

- Server Support Technician
- Network Server Support Analyst
- Cloud Engineer
- Cloud Support Technician

SALARY OUTLOOK

$66,597

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Campus Main Line: (219) 464-8514
# CLOUD TECHNOLOGY SYSTEM ADMINISTRATION
## Completion Guide

### 8-WEEK SESSIONS

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<tbody>
<tr>
<td>FALL Term 1</td>
<td>INFM 109: Informatics Fundamentals (3 cr) TC</td>
<td>ITSP 132: IT Essentials I (2 cr) TC</td>
<td>NETI 104: Introduction to Networking (3 cr) CT</td>
<td>IVYT 115: Student Success (1 cr) TC</td>
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<tr>
<td>FALL Term 2</td>
<td>SVAD 150: Cloud Technologies Fundamentals (3 cr) CT</td>
<td>ITSP 134: IT Essentials II (2 cr) TC</td>
<td>SDEV 120: Computer Logic (3 cr) TC</td>
<td>ITSP 136: Workforce Prep: CompTIA a+ Certification (1 cr) TC 16 weeks</td>
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<tr>
<td>SPRING Term 3</td>
<td>SVAD 170: Monitoring &amp; Issue Resolution (3 cr) CT</td>
<td>SVAD 220: AWS Solutions Architect Associate (3 cr) CT</td>
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<tr>
<td>SPRING Term 4</td>
<td>SVAD 260: Systems Automation &amp; Orchestration (3 cr) CT</td>
<td>SVAD 221: Workforce Prep: CompTIA Security + Certification (1 cr) TC</td>
<td>SVAD 230: Hybrid Systems (3 cr) CT</td>
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### EARNED

#### Certificate (19 Credit Hours)

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<th>Term</th>
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<tbody>
<tr>
<td>SUMMER Term 5</td>
<td>SVAD 121: Enterprise Computing (3 cr) TC</td>
<td>SVAD 111: Linux &amp; Virtualization Technologies (3 cr) TC</td>
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<td>FALL Term 6</td>
<td>MATH 123: Quantitative Reasoning (3 cr) TC</td>
<td>ENG 111: English Composition (3 cr) TC</td>
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#### Technical Certificate (30 Credit Hours)

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<th>Term</th>
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<tbody>
<tr>
<td>FALL Term 7</td>
<td>SCIN 111: Physical Science (3 cr) AAS</td>
<td>CSIA 105: Introduction to Cyber Security (3 cr) AAS</td>
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</tr>
<tr>
<td>SPRING Term 8</td>
<td>SVAD 231: Microsoft Server Administration I (3 cr) AAS</td>
<td>PHIL 102: Introduction to Ethics (3 cr) AAS</td>
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</tr>
<tr>
<td>SPRING Term 9</td>
<td>CPIN 269: Project Management (3 cr) AAS</td>
<td>CPIN 279: CPIN Exploration &amp; Evaluation (1 cr) AAS</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr) AAS</td>
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</table>

#### Associate of Applied Science (60 Credit Hours)

- CT-Certificate (19 credits)
- TC-Technical Certificate (30 credits)
- AAS-Associate of Applied Science (60 credits)

* Suggested electives are stated; please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
Computer Science is an exciting field that explores the limits of what computers can accomplish. It also spans many restraints and sectors of our economy, including science and research, industry, business and military. Coursework can include implementing and understanding properties of algorithms as well as discussing the social content of computing. This includes the history and evolution of machines, social impact of computers, and the code of ethics.

**CAREER OPPORTUNITIES**

*What can I do with this major?*

- Software Development
- Informatics
- Database Management /Administration
- Server Administration

**SALARY OUTLOOK**

$80,945

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Campus Main Line: (219) 464-8514
# COMPUTER SCIENCE
## Completion Guide

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<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td>IVYT 115: Student Success (1 cr) AS</td>
<td>CSCI 101: Computer Science I (3 cr) CT</td>
<td>MATH 211: Calculus I (4 cr) CT</td>
<td><strong>16 weeks</strong></td>
</tr>
<tr>
<td><strong>FALL Term 2</strong></td>
<td>CSCI 201: Computer Science II (3 cr) CT</td>
<td>ENG 111: English Composition (3 cr) CT</td>
<td><strong>16 weeks</strong></td>
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</tr>
<tr>
<td><strong>SPRING Term 3</strong></td>
<td>SDEV 120: Computing Logic (3 cr) CT</td>
<td>PHYS 220: Mechanics (5 cr) AS</td>
<td>MATH 212: Calculus II (4 cr) AS</td>
<td><strong>16 weeks</strong></td>
</tr>
</tbody>
</table>

## EARNED

**Certificate (19 Credit Hours)**

<table>
<thead>
<tr>
<th><strong>SPRING Term 4</strong></th>
<th><strong>SUMMER Term 5</strong></th>
<th><strong>FALL Term 6</strong></th>
<th><strong>FALL Term 7</strong></th>
<th><strong>SPRING Term 8</strong></th>
<th><strong>SPRING Term 9</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 220: Mechanics (5 cr) AS</td>
<td>MATH 212: Calculus II (4 cr) AS</td>
<td>PHYS 221: Test, Electricity &amp; Optics (5 cr) AS</td>
<td>CSCI 202: Data Structures (3 cr) AS</td>
<td>SDEV 220: Software Development Using Python (3 cr) AS</td>
<td>CSCI 279: Computing &amp; Information Exploration &amp; Evaluation (1 cr) AS</td>
</tr>
<tr>
<td><strong>16 weeks</strong></td>
<td><strong>16 weeks</strong></td>
<td><strong>16 weeks</strong></td>
<td><strong>16 weeks</strong></td>
<td><strong>16 weeks</strong></td>
<td><strong>16 weeks</strong></td>
</tr>
</tbody>
</table>

## EARNED

**Associate of Science (60 Credit Hours)**

<table>
<thead>
<tr>
<th><strong>CT-Certificate (19 credits)</strong></th>
<th><strong>AS-Associate of Science (60 credits)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.</em></td>
<td></td>
</tr>
</tbody>
</table>
This program will build the foundation to identify and fix computer security attacks. The material covered in the program is designed for students with advanced computer knowledge or currently working in the computer industry. Cyber Security is a degree that can be applied to many facets of the student’s life, from personal to work experiences. There is a growing need for stronger cyber security with increasing media attention. Learn more here: https://youtu.be/kt173DSDX5Q

**CAREER OPPORTUNITIES**

*What can I do with this major?*

- Network Security Support Technician
- Security Auditor
- Digital Forensics Auditor

**SALARY OUTLOOK**

$76,069

*Data is Average Annual Salary Specific to Indiana

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**YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS**

Program Chair:
Rami Salahieh: rcsalahieh@ivytech.edu; ext. 3079

Academic Advisor:
Michelle Gregory: mgregory37@ivytech.edu; (219) 476-4763

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
<table>
<thead>
<tr>
<th>8 WEEK SESSIONS</th>
<th>8 WEEK SESSIONS</th>
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<th>8 WEEK SESSIONS</th>
<th>8 WEEK SESSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td><strong>FALL Term 2</strong></td>
<td><strong>SPRING Term 3</strong></td>
<td><strong>SPRING Term 4</strong></td>
<td><strong>EARNED</strong></td>
</tr>
<tr>
<td>CRIM 101: Introduction to Criminal Justice (3 cr) CT</td>
<td>ITSP 132: IT Essentials I (2 cr) CT</td>
<td>IVYT 115: Student Success (1 cr) TC</td>
<td>CSIA 106: Workforce Prep: CompTIA Security + Certification (1 cr) CT</td>
<td><strong>Certificate (19 - 23 Credit Hours)</strong></td>
</tr>
<tr>
<td>NETI 104: Introduction to Networking (3 cr) TC</td>
<td>ITSP 134: IT Essentials II (2 cr) CT</td>
<td>CSIA 105: Introduction to Cyber Security (3 cr) CT</td>
<td>CRIM 105: Introduction to Criminal Justice (3 cr) CT</td>
<td></td>
</tr>
<tr>
<td><strong>SUMMER Term 5</strong></td>
<td><strong>FALL Term 6</strong></td>
<td><strong>SPRING Term 7</strong></td>
<td><strong>SPRING Term 8</strong></td>
<td><strong>EARNED</strong></td>
</tr>
<tr>
<td>CRIM 105: Introduction to Criminal Justice (3 cr) CT</td>
<td>ENG 111: English Composition (3 cr) TC</td>
<td>NETI 114: Workforce Prep: CompTIA A+ Certification</td>
<td>NETI 114: Workforce Prep: CompTIA Network + Certification (1 cr) AAS</td>
<td><strong>Technical Certificate (33 Credit Hours)</strong></td>
</tr>
<tr>
<td><strong>FAL Term 7</strong></td>
<td>SDEV 120: Computing Logic (3 cr) TC</td>
<td>Math 136: College Algebra (3 cr) TC</td>
<td>CSIA 225: Ethical Hacking (3 cr) AAS</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING Term 8</strong></td>
<td>SVAD 111: Linux &amp; Virtualization Technologies (3 cr) TC</td>
<td>PHIL 102: Introduction to Ethics (3 cr) AAS</td>
<td>CSIA 235: Digital Forensics (3 cr) AAS</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING Term 9</strong></td>
<td>CPIN 269: Project Management (3 cr) AAS</td>
<td>CSIA 260: Business Continuity in an Information World (3 cr) AAS</td>
<td>CSIA 260: Business Continuity in an Information World (3 cr) AAS</td>
<td></td>
</tr>
</tbody>
</table>

**EARNED** **Certificate (19 - 23 Credit Hours)**

- **SUMMER Term 5**
  - INFM 109: Informatics Fundamentals (3 cr) TC
  - SDEV 120: Computing Logic (3 cr) TC
  - Math 136: College Algebra (3 cr) TC 16 weeks*

**EARNED** **Technical Certificate (33 Credit Hours)**

- **FALL Term 7**
  - SVAD 121: Enterprise Computing (3 cr) AAS
  - SCIN 111: Physical Science (3 cr) AAS
  - NETI 114: Workforce Prep: CompTIA Network + Certification (1 cr) AAS

- **SPRING Term 8**
  - COMM 101: Fundamentals of Public Speaking (3 cr) AAS
  - CSIA 225: Ethical Hacking (3 cr) AAS
  - CSIA 235: Digital Forensics (3 cr) AAS

- **SPRING Term 9**
  - CPIN 269: Project Management (3 cr) AAS
  - CSIA 279: CPIN Exploration & Evaluation (1 cr) AAS
  - CSIA 260: Business Continuity in an Information World (3 cr) AAS

**EARNED** **Associate of Applied Science (60 Credit Hours)**

- **FALL Term 6**
  - SVAD 111: Linux & Virtualization Technologies (3 cr) TC
  - PHIL 102: Introduction to Ethics (3 cr) AAS

- **SPRING Term 7**
  - SVAD 121: Enterprise Computing (3 cr) AAS
  - SCIN 111: Physical Science (3 cr) AAS
  - NETI 114: Workforce Prep: CompTIA Network + Certification (1 cr) AAS

- **SPRING Term 8**
  - COMM 101: Fundamentals of Public Speaking (3 cr) AAS
  - CSIA 225: Ethical Hacking (3 cr) AAS
  - CSIA 235: Digital Forensics (3 cr) AAS

- **SPRING Term 9**
  - CPIN 269: Project Management (3 cr) AAS
  - CSIA 279: CPIN Exploration & Evaluation (1 cr) AAS
  - CSIA 260: Business Continuity in an Information World (3 cr) AAS

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES

What can I do with this major?

- Network Security Support Technician
- Security Auditor
- Digital Forensics Auditor

Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

In 2013, the National Security Agency (NSA) and the Department of Homeland Security (DHS) designated Ivy Tech Community College as a Center of Academic Excellence in Cyber Defense Education (CAE-2Y).

SALARY OUTLOOK

$76,069

*Data is Average Annual Salary Specific to Indiana

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Campus Main Line: (219) 464-8514
# CYBER SECURITY & INFORMATION ASSURANCE

## INCIDENT ANALYST Completion Guide

### 8-WEEK SESSIONS

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
<td><strong>FALL</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SPRING</strong></td>
</tr>
<tr>
<td>INFM 109: Informatics Fundamentals (3 cr)</td>
<td>ITSP 132: IT Essentials I (3 cr) CT</td>
<td>NETI 104: Introduction to Networking (3 cr) CT</td>
<td>IVYT 115: Student Success (1 cr) TC</td>
</tr>
<tr>
<td>SVAD 111: Linux &amp; Virtualization Technologies (3 cr) CT</td>
<td>ITSP 134: IT Essentials II (2 cr)</td>
<td>NETI 114: Workforce Prep: CompTIA A+ Certification (1 cr) AAS</td>
<td>ITSP 136: Workforce Prep: CompTIA A+ Certification (1 cr) AAS 16 weeks</td>
</tr>
<tr>
<td>CSIA 105: Introduction to Cyber Security (3 cr) CT</td>
<td>CSIA 210: Network Protocols Analysis (3 cr) CT</td>
<td>CSIA 260: Business Continuity in an Information World (3 cr) CT</td>
<td></td>
</tr>
<tr>
<td>CSIA 106: Workforce Prep: CompTIA Security + Certification (1 cr) CT</td>
<td>CSIA 235: Digital Forensics (3 cr) CT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### EARNED Certificate (26 Credit Hours)

<table>
<thead>
<tr>
<th>Term 5</th>
<th>Term 6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SUMMER</strong></td>
<td><strong>FALL</strong></td>
</tr>
<tr>
<td>Math 136: College Algebra (3 cr) TC</td>
<td>ENG 111: English Composition (3 cr) TC</td>
</tr>
<tr>
<td>SDEV 120: Computing Logic (3 cr) TC</td>
<td>CSIA 115: Cyber Ops (3 cr) TC</td>
</tr>
</tbody>
</table>

### EARNED Technical Certificate (33 Credit Hours)

<table>
<thead>
<tr>
<th>Term 7</th>
<th>Term 8</th>
<th>Term 9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>SPRING</strong></td>
</tr>
<tr>
<td>SVAD 121: Enterprise Computing (3 cr) AAS</td>
<td>PHIL 102: Intro to Ethics (3 cr) AAS</td>
<td>CPIN 269: Project Management (3 cr) AAS</td>
</tr>
<tr>
<td>COMM 101: Fundamentals of Public Speaking (3 cr) AAS</td>
<td>CSIA 225: Ethical Hacking (3 cr) AAS</td>
<td>CPIN 279: CPIN Exploration &amp; Evaluation (1 cr) AAS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SCIN 111: Physical Science (3 cr) AAS</td>
</tr>
</tbody>
</table>

### EARNED Associate of Applied Science (60 Credit Hours)

CT-Certificate (26 credits)  TC-Technical Certificate (33 credits)  AAS-Associate of Applied Science (60 credits)

*Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES

What can I do with this major?
- Network Security Support Technician
- Security Auditor
- Digital Forensics Auditor

Next Level Jobs
You may be eligible for a free certificate offered through this degree program.

In 2013, the National Security Agency (NSA) and the Department of Homeland Security (DHS) designated Ivy Tech Community College as a Center of Academic Excellence in Cyber Defense Education (CAE-2Y).

SALARY OUTLOOK

$76,069

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Campus Main Line: (219) 464-8514
## 2022–23

### CYBER SECURITY & INFORMATION ASSURANCE

**SECURITY OPERATIONS CENTER SPECIALIST**

**Completion Guide**

<table>
<thead>
<tr>
<th>8-WEEK SESSIONS</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td>INFM 109: Informatics Fundamentals (3 cr) CT</td>
<td>ITSP 132: IT Essentials I (2 cr) TC</td>
<td>NETI 104: Introduction to Networking (3 cr) CT</td>
<td>IVYT 115: Student Success (1 cr) TC</td>
</tr>
<tr>
<td><strong>FALL Term 2</strong></td>
<td>SVAD 111: Linux &amp; Virtualization Technologies (3 cr) CT</td>
<td>ITSP 134: IT Essentials II (2 cr) TC</td>
<td>NETI 114: Workforce Prep: CompTIA Network+ Certification (1 cr) AAS</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING Term 3</strong></td>
<td>CSIA 105: Introduction to Cyber Security (3 cr) CT</td>
<td>CSIA 210: Network Protocols Analysis (3 cr) CT</td>
<td>CSIA 225: Ethical Hacking (3 cr) CT</td>
<td>CSIA 115: Cyber Ops (3 cr) CT</td>
</tr>
<tr>
<td><strong>SPRING Term 4</strong></td>
<td>CSIA 106: Workforce Prep: CompTIA Security + Certification (1 cr) CT</td>
<td>CSIA 235: Digital Forensics (3 cr) AAS</td>
<td>ITSP 136: Workforce Prep: CompTIA A+ Certification (3 cr) AAS</td>
<td></td>
</tr>
<tr>
<td><strong>EARNED</strong></td>
<td>Certificate (22 Credit Hours)</td>
<td>CSIA 226: Business Continuity in an Information World (3 cr) AAS</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SUMMER Term 5</strong></td>
<td>Math 136: College Algebra (3 cr) TC</td>
<td>SDEV 120: Computing Logic (3 cr) TC</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EARNED</strong></td>
<td>Technical Certificate (33 Credit Hours)</td>
<td></td>
<td>ITSP 136: Workforce Prep: CompTIA A+ Certification (3 cr) AAS</td>
<td></td>
</tr>
<tr>
<td><strong>FALL Term 6</strong></td>
<td>CSIA 260: Business Continuity in an Information World (3 cr) AAS</td>
<td>CSIA 235: Digital Forensics (3 cr) AAS</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FALL Term 7</strong></td>
<td>SVAD 121: Enterprise Computing (3 cr) AAS</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr) AAS</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SPRING Term 8</strong></td>
<td>PHIL 102: Introduction to Ethics (3 cr) AAS</td>
<td>EN 111: English Composition (3 cr) TC</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SPRING Term 9</strong></td>
<td>CPIN 269: Project Management (3 cr) AAS</td>
<td>CPIN 279: CPIN Exploration &amp; Evaluation (1 cr) AAS</td>
<td>SCIN 111: Physical Science (3 cr) AAS</td>
<td></td>
</tr>
<tr>
<td><strong>EARNED</strong></td>
<td>Associate of Applied Science (60 Credit Hours)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES

What can I do with this major?

- Database Design and Administration
- Information Security Analyst
- Market Research Analyst
- Computer Network Architect

SALARY OUTLOOK

$76,724

*Data is Average Annual Salary Specific to Indiana

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Working Toward Your Bachelor’s Degree?

Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS

Department Chair:
Ben Marrero: bmarrero@ivytech.edu; ext. 3102

Faculty Advisor:
Alma Scott: aknox10@ivytech.edu; ext. 3038

Academic Advisor:
Michelle Gregory: mgregory37@ivytech.edu; (219) 476-4763

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<table>
<thead>
<tr>
<th>8-WEEK SESSIONS</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td>DBMS 110: Introduction to Data Analytics (3 cr) CT</td>
<td>MATH 200: Statistics (3 cr) CT</td>
<td>IVYT 115: Student Success (1 cr) TC</td>
<td><strong>EARNED</strong> Certificate (27 Credit Hours)</td>
</tr>
<tr>
<td><strong>FALL Term 2</strong></td>
<td>INFM 109: Informatics Fundamentals (3 cr) CT</td>
<td>DBMS 130: Data Management Structured Query Language (3 cr) CT</td>
<td>SDEV 120: Computing Logic (3 cr) CT</td>
<td><strong>SUMMER Term 5</strong> DBMS 261: CIW Data Analytics Certification (1 cr) AAS</td>
</tr>
<tr>
<td><strong>SPRING Term 3</strong></td>
<td>INFM 219: Business Intelligence, Data Warehousing &amp; Reporting (3 cr) CT</td>
<td>DBMS 160: Data Visualization &amp; Analysis (3 cr) CT</td>
<td><strong>FALL Term 6</strong> ENG 111: English Composition (3 cr) TC</td>
<td>BUSN 101: Introduction to Business Application (3 cr) TC</td>
</tr>
<tr>
<td><strong>SPRING Term 4</strong></td>
<td>SVAD 150: Cloud Computing Technologies (3 cr) CT</td>
<td>DBMS 260: Advanced Data Analytics (3 cr) CT</td>
<td><strong>EXCEPTION</strong> SVAD 111: Linux &amp; Virtualization Technologies Fundamentals (3 cr) AAS</td>
<td></td>
</tr>
</tbody>
</table>

| **EARNED** Technical Certificate (31 Credit Hours) |
|----------------|--------|--------|--------|
| **FALL Term 7** | COMM 101: Fundamentals of Public Speaking (3 cr) AAS | SDEV 140: Introduction to Software Development (3 cr) AAS | **SPRING Term 8** ECON 101: Economics Fundamentals (3 cr) AAS |
| **SPRING Term 8** | SVAD 111: Linux & Virtualization Technologies Fundamentals (3 cr) AAS | **SPRING Term 9** CSIA 105: Introduction to Cyber Security (3 cr) AAS | CPIN 269: Project Management (3 cr) AAS |
| **SPRING Term 9** | SCIN 111: Physical Science (3 cr) AAS | CPIN 279: CPIN Exploration & Evaluation (1 cr) AAS | **EARNED** Associate of Applied Science (60 Credit Hours) |

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
Informatics involves studying how people interact with computers to increase productivity and enhance communication. Students will learn to critically analyze approaches to processing information and develop skills to design, implement and evaluate the next generation of information technology tools. Learn more here: https://youtu.be/kt173DSDX5Q

Graduates of our Associate of Science (AS) degree can seamlessly transfer to a four-year institution through our “Transfer as a Junior” program, entering at a junior status. To learn more about our Transfer as a Junior programs, and how it can save you money, visit our TSAP page. Please keep in mind, you will also need to be admitted to the four-year institution you intend to transfer to; admission is not guaranteed just by enrolling in a Transfer as a Junior program.

Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

You’ve Got Questions; We’ve Got Answers

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SALARY OUTLOOK

$65,044

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Next Level Jobs Indiana

2022-23

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# 8-WEEK SESSIONS

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<td><strong>SPRING Term 3</strong></td>
<td><strong>SPRING Term 4</strong></td>
</tr>
<tr>
<td>DBMS 110: Intro to Data Analytics (3 cr) CT</td>
<td>INFM 109: Informatics Fundamentals (3 cr) CT</td>
<td>INFM 219: Business Intel Data, Warehousing, &amp; Reporting (3 cr) CT</td>
<td>NETI 104: Introduction to Networking (3 cr) TC</td>
</tr>
<tr>
<td>BUSN 101: Intro to Business Applications (3 cr) CT</td>
<td>BUSN 106: Costumer Service (3 cr) CT</td>
<td>INFM 260: Salesforce Administrator (3 cr) CT</td>
<td>INFM 261: Salesforce Administrator Certification Course (1 cr) CT</td>
</tr>
<tr>
<td>IVYT 115: Student Success (1 cr) TC</td>
<td>SDEV 120: Computing Logic (3 cr) CT</td>
<td>ENG 111: English Composition (3 cr) TC</td>
<td>INFM 209: Informatics &amp; Human Computer Interaction (3 cr) TC</td>
</tr>
</tbody>
</table>

## EARNED

### Certificate (22 Credit Hours)

- **SUMMER Term 5**
  - CSIA 105: Introduction to Cyber Security (3 cr) TC
  - TRACK OPTION 1 (3 cr) AAS

- **FALL Term 6**
  - MATH 123: Quantitative Reasoning (3 cr) AAS
  - ITSP 132: IT Essentials I (2 cr) TC
  - TRACK OPTION 2 (3 cr) AAS

### Technical Certificate (30 Credit Hours)

- **FALL Term 7**
  - PHIL 102: Introduction to Ethics (3 cr) AAS
  - ITSP 134: IT Essentials II (2 cr) AAS
  - SVAD 150: Cloud Technologies Fundamentals (3 cr) AAS

- **SPRING Term 8**
  - COMM 101: Fundamentals of Public Speaking (3 cr) AAS
  - SCIN 111: Physical Science (3 cr) AAS
  - TRACK OPTION 3 (3 cr) AAS

- **SPRING Term 9**
  - CPIN 269: Project Management (3 cr) AAS
  - CPIN 279: CPIN Exploration & Evaluation (1 cr) AAS
  - TRACK OPTION 4 (3 cr) AAS

### Associate of Applied Science (60 Credit Hours)

- CT-Certificate (22 credits)
- TC-Technical Certificate (30 credits)
- AAS-Associate of Applied Science (60 credits)

*Suggested electives are stated. Please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.*
Informatics involves studying how people interact with computers to increase productivity and enhance communication. Students will learn to critically analyze approaches to processing information and develop skills to design, implement and evaluate the next generation of information technology tools. Learn more here: https://youtu.be/kt173DSDX5Q

Graduates of our Associate of Science (AS) degree can seamlessly transfer to a four-year institution through our “Transfer as a Junior” program, entering at a junior status. To learn more about our Transfer as a Junior programs, and how it can save you money, visit our TSAP page. Please keep in mind, you will also need to be admitted to the four-year institution you intend to transfer to; admission is not guaranteed just by enrolling in a Transfer as a Junior program.

Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

Next Level Jobs INDIANA

YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS

Department Chair:
Ben Marrero: bmarrero@ivytech.edu; ext. 3102

Academic Advisor:
Michelle Gregory: mgregory37@ivytech.edu; (219) 476-4763

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514

INFORMATICS

Salaries vary depending on job duties, skills and experience.

Average Annual Salary Specific to Indiana:

$65,044

*Data is Average Annual Salary Specific to Indiana

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(219) 476-4701

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# INFORMATICS Completion Guide

## 8-WEEK SESSIONS

<table>
<thead>
<tr>
<th>FALL Term 1</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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<tbody>
<tr>
<td>DBMS 110:</td>
<td>ITSP 132:</td>
<td>IVYT 115:</td>
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<tr>
<td>Intro to Data Analytics</td>
<td>IT Essentials I</td>
<td>Student Success</td>
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<tr>
<td>(3 cr) CT</td>
<td>(2 cr) CT</td>
<td>(1 cr) TC</td>
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<thead>
<tr>
<th>FALL Term 2</th>
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<tbody>
<tr>
<td>INFM 109:</td>
<td>ITSP 134:</td>
<td>SDEV 120:</td>
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<td>Informatics Fundamentals</td>
<td>IT Essentials II</td>
<td>Computing Logic</td>
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<td>(3 cr) TC</td>
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<tr>
<td>NETI 104:</td>
<td>ENG 111:</td>
<td>ITSP 136:</td>
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<tr>
<td>Introduction to Networking</td>
<td>English Composition</td>
<td>Workforce Prep:</td>
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<tr>
<td>(3 cr) CT</td>
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<td>CompTIA A+ Certification</td>
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<thead>
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<th>SPRING Term 4</th>
<th>COURSE</th>
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<tbody>
<tr>
<td>INFM 219:</td>
<td>INFM 209:</td>
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<tr>
<td>Business Intel Data, Warehousing &amp; Reporting</td>
<td>Informatics &amp; Human Computer Interaction</td>
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<td>(3 cr) CT</td>
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## EARNED

### Certificate (20 Credit Hours)

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<tr>
<td>CSIA 105:</td>
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<tr>
<td>Intro to Cyber Security</td>
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## EARNED

### Technical Certificate (30 Credit Hours)

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<tr>
<td>MATH 123:</td>
<td>SCIN 111:</td>
<td>TRACK OPTION 1</td>
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<tr>
<td>Quantitative Reasoning</td>
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<td>(3 cr) AAS</td>
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<th>FALL Term 7</th>
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<tr>
<td>PHIL 102:</td>
<td>TRACK OPTION 2</td>
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<tr>
<td>Introduction to Ethics</td>
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<td>(3 cr) AAS</td>
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<tr>
<td>(3 cr) AAS</td>
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<thead>
<tr>
<th>SPRING Term 8</th>
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<tbody>
<tr>
<td>COMM 101:</td>
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<tr>
<td>Fundamentals of Public Speaking</td>
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<td>(3 cr) AAS</td>
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<th>SPRING Term 9</th>
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<tbody>
<tr>
<td>CPIN 269:</td>
<td>CPIN 279:</td>
<td>TRACK OPTION 4</td>
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<tr>
<td>Project Management</td>
<td>CPIN Exploration &amp; Evaluation</td>
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<tr>
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## EARNED

### Associate of Applied Science (61 Credit Hours)

<table>
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<th>TRACK OPTION 1</th>
<th>TRACK OPTION 2</th>
<th>TRACK OPTION 3</th>
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<tr>
<td>(3 cr) AAS</td>
<td>(3 cr) AAS</td>
<td>(3 cr) AAS</td>
<td>(3 cr) AAS</td>
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</tbody>
</table>

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES
What can I do with this major?
- Support Specialist
- IT Technician
- Network Engineer
- IT Systems Administrator

SALARY OUTLOOK
$64,209

*Data is Average Annual Salary Specific to Indiana

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Academic Advisor:
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Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Next Level Jobs
You may be eligible for a free certificate offered through this degree program.

NextLevelJobs
Indiana

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Next Level Jobs
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NextLevelJobs
Indiana

2022-23
# INFORMATION TECHNOLOGY SUPPORT HELP DESK
## Completion Guide

### 8-WEEK SESSIONS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
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</thead>
<tbody>
<tr>
<td>FALL Term 1: DBMS 110: Introduction to Data Analytics (3 cr) CT</td>
<td>ITSP 132: IT Essentials I (2 cr) CT</td>
<td>IVYT 115: Student Success (1 cr) TC</td>
<td>NETI 109: Networking I (3 cr) CT</td>
</tr>
<tr>
<td>FALL Term 2: INFM 109: Informatics Fundamentals (3 cr) CT</td>
<td>ITSP 134: IT Essentials II (2 cr) CT</td>
<td></td>
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</tr>
<tr>
<td>SPRING Term 3: SVAD 111: Linux &amp; Virtualization Technologies (3 cr) CT</td>
<td>CSIA 105: Introduction to Cyber Security (3 cr) CT</td>
<td></td>
<td>ITSP 136: Workforce Prep: CompTIA A+ Certification (1 cr) CT</td>
</tr>
<tr>
<td>SPRING Term 4: ITSP 175: Customer Support &amp; Help Desk (3 cr) CT</td>
<td>ENG 111: English Composition (3 cr) TC</td>
<td>CSIA 106: Workforce Prep: CompTIA Security+ Certification (1 cr) CT</td>
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</tbody>
</table>

### Earned Certificates

<table>
<thead>
<tr>
<th>TERM</th>
<th>COURSE</th>
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<tbody>
<tr>
<td>SUMMER</td>
<td>SDEV 120: Computing Logic (3 cr) TC</td>
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<tr>
<td></td>
<td>SVAD 121: Enterprise Computing (3 cr) TC</td>
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</table>

<table>
<thead>
<tr>
<th>TERM</th>
<th>COURSE</th>
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<tbody>
<tr>
<td>FALL</td>
<td>Math 123: Quantitative Reasoning (3 cr) AAS</td>
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<tr>
<td></td>
<td>ITSP 215: Mobile/Wireless Computing Support (3 cr) AAS</td>
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<td></td>
<td>ITSP 235: Internet of Things (3 cr) AAS</td>
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<tr>
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<td>ITSP 216: Workforce Prep: Certified Wireless (1 cr) AAS</td>
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<tr>
<td></td>
<td>SDEV 150: Cloud Technologies (3 cr) AAS</td>
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<tr>
<td></td>
<td>CPIN 279: CPIN Exploration &amp; Evaluation (1 cr) AAS Elective*</td>
</tr>
<tr>
<td></td>
<td>SCIN 111: Physical Science (3 cr) AAS</td>
</tr>
</tbody>
</table>

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
Networking is at the core of all digital communications in our interconnected society. Students will work through the Cisco Networking Academy official CCNA preparation curriculum, in addition to courses in infrastructure, wireless, voice, and server administration.

**CAREER OPPORTUNITIES**

*What can I do with this major?*

- Network Engineer
- Network Installation
- IoT Developer
- Systems Analyst

**SALARY OUTLOOK**

$66,145

*Data is Average Annual Salary Specific to Indiana

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**Career Coach:**
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Campus Main Line: (219) 464-8514
## NETWORK INFRASTRUCTURE

### Completion Guide

<table>
<thead>
<tr>
<th>8-WEEK SESSIONS</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td>NETI 109: Networking I (3 cr) CT</td>
<td>IVYT 115: Student Success (1 cr) TC</td>
<td>ITSP 132: IT Essentials I (2 cr) TC</td>
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<tr>
<td><strong>FALL Term 2</strong></td>
<td>NETI 119: Networking II (3 cr) CT</td>
<td>SVAD 150: Cloud Computing Technologies (3 cr) CT</td>
<td>ITSP 134: IT Essentials II (2 cr) TC</td>
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<tr>
<td><strong>SPRING Term 3</strong></td>
<td>NETI 209: Networking III (3 cr) CT</td>
<td>SDEV 120: Computer Logic (3 cr) TC</td>
<td>NETI 219: Workforce Prep: CCNA Certification (1 cr) CT 16 weeks</td>
<td>NETI 120: Infrastructure Design (3 cr) CT 16 weeks</td>
</tr>
<tr>
<td><strong>SPRING Term 4</strong></td>
<td>INFM 109: Informatics Fundamentals (3 cr) TC</td>
<td>MATH 123: Quantitative Reasoning (3 cr) TC</td>
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### EARNED

#### Certificate (16 Credit Hours)

<table>
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<tr>
<th>SUMMER Term 5</th>
<th>NETI 114: Workforce Prep: CompTIA Network + Certification (1 cr) AAS</th>
<th>ENGL 111: English Composition (3 cr) TC</th>
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<tbody>
<tr>
<td><strong>FALL Term 6</strong></td>
<td>SVAD 121: Enterprise Computing (3 cr) TC</td>
<td>SVAD 111: Linux &amp; Virtualization Technologies (3 cr) TC</td>
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### EARNED

#### Technical Certificate (33 Credit Hours)

<table>
<thead>
<tr>
<th>FALL Term 7</th>
<th>COMM 101: Fundamentals of Public Speaking (3 cr) AAS</th>
<th>SDEV 140: Introduction to Software Development (3 cr) AAS</th>
<th>CSIA 105: Introduction to Cyber Security (3 cr) AAS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPRING Term 8</strong></td>
<td>CSIA 115: Cyber Ops (3 cr) AAS</td>
<td>PHIL 102: Introduction to Ethics (3 cr) AAS</td>
<td>CSIA 106: Workforce Prep: CompTIA Security + Certification (1 cr) AAS</td>
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<tr>
<td><strong>SPRING Term 9</strong></td>
<td>CPIN 269: Project Management (3 cr) AAS</td>
<td>CPIN 279: Computing &amp; Informatics Exploration &amp; Evaluation (1 cr) AAS</td>
<td>SCIN 111: Physical Science (3 cr) AAS</td>
<td></td>
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</tbody>
</table>

### EARNED

#### Associates in Applied Science (60 Credit Hours)

CT-Certificate (6 credits)  TC-Technical Certificate (33 credits)  AAS-Associate of Applied Science (60 credits)

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
The Software Development Program prepares students to develop, test and maintain the software applications that people use every day with their computers and other technical devices. The coursework involves a combination of practical programming techniques and problem-solving skills. Learn more here: https://youtu.be/kt173DSDX5Q

CAREER OPPORTUNITIES

What can I do with this major?

- Applications Developer
- Systems Programmer
- Web Developer
- Webmaster

Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

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Campus Main Line: (219) 464-8514

SALARY OUTLOOK

$80,945

*Data is Average Annual Salary Specific to Indiana
# SOFTWARE DEVELOPMENT SOFTWARE APPLICATION DEVELOPER
## Completion Guide

**8-WEEK SESSIONS**

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
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<tr>
<td>DBMS 110: Introduction to Data Analytics (3 cr) CT</td>
<td>SDEV 120: Computing Logic (3 cr) CT</td>
<td>IVYT 115: Student Success (1 cr) TC</td>
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<td><strong>FALL Term 2</strong></td>
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<tr>
<td>SDEV 153: Website Development (3 cr) CT</td>
<td>SDEV 140: Introduction to Software Development (3 cr) CT</td>
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<td><strong>SPRING Term 3</strong></td>
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<tr>
<td>SDEV 220: Software Development Using Python (3 cr) CT</td>
<td>SDEV 264: Mobile Application Development (3 cr) CT</td>
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### Earned

**Certificate (18 Credit Hours)**

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<tr>
<td>COMM 101: Fundamentals of Public Speaking (3 cr) CT</td>
<td>ENG 111: English Composition (3 cr) TC</td>
<td>SDEV 272: Workforce Prep: Python (1 cr) TC</td>
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<td><strong>SUMMER Term 5</strong></td>
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<tr>
<td>CPIN 269: Project Management (3 cr) TC</td>
<td>CSCI 105: Discrete Logic (3 cr) TC</td>
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### Earned

**Technical Certificate (32 Credit Hours)**

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<td><strong>FALL Term 6</strong></td>
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</tr>
<tr>
<td>VISC 104: Experience/Interface (UX/UI) (3 cr) AAS</td>
<td>INFM 109: Informatics Fundamentals (3 cr) AAS</td>
<td>Math 136: College Algebra (3 cr) AAS</td>
</tr>
<tr>
<td><strong>FALL Term 7</strong></td>
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</tr>
<tr>
<td>PHIL 102: Introduction to Ethics (3 cr) AAS</td>
<td>SVAD 150: Cloud Foundations (3 cr) AAS</td>
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<tr>
<td><strong>SPRING Term 8</strong></td>
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</tr>
<tr>
<td>SDEV 255: Web Application Development (3 cr) AAS</td>
<td>INFM 209: Human-Computer Interaction (3 cr) AAS</td>
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<tr>
<td><strong>SPRING Term 9</strong></td>
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<tr>
<td>SDEV 265: System/Software Analysis &amp; Projects (3 cr) AAS</td>
<td>CPIN 279: Computing &amp; Informatics Exploration &amp; Evaluation (1 cr) AAS</td>
<td>SCIN 111: Physical Science (3 cr) AAS</td>
</tr>
</tbody>
</table>

### Earned

**Associate of Applied Science (60 Credit Hours)**

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES

What can I do with this major?

- Applications Developer
- Systems Programmer
- Web Developer
- Webmaster

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Department Chair:
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Faculty Advisor:
Alma Scott: aknox10@ivytech.edu; ext. 3038

Academic Advisor:
Michelle Gregory: mgregory37@ivytech.edu; (219) 476-4763

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# Software Development Web Application Development

## Completion Guide

### 8-Week Sessions

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong> Term 1</td>
<td>INFM 109: Informatics Fundamentals (3 cr CT)</td>
<td>SDEV 120: Computing Logic (3 cr CT)</td>
<td>IVYT 115: Student Success (1 cr TC)</td>
<td></td>
</tr>
<tr>
<td><strong>FALL</strong> Term 2</td>
<td>SDEV 140: Introduction to Software Development (3 cr CT)</td>
<td>SDEV 153: Website Development (3 cr CT)</td>
<td>VISC 104: Experience/Interface (UX/UI) (3 cr AAS)</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING</strong> Term 3</td>
<td>DBMS 110: Introduction to Data Analytics (3 cr CT)</td>
<td>SDEV 250: Client Side Scripting Language &amp; Tools (3 cr CT)</td>
<td></td>
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</tr>
<tr>
<td><strong>SPRING</strong> Term 4</td>
<td>SDEV 253: Server Side Scripting Language &amp; Tools (3 cr TC)</td>
<td>ENG 111: English Composition (3 cr TC)</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr TC)</td>
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</table>

### Earned

#### Certificate (21 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SUMMER</strong> Term 5</td>
<td>CPIN 269: Project Management (3 cr TC)</td>
<td>INFM 209: Informatics Fundamentals (3 cr AAS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FALL</strong> Term 6</td>
<td>SDEV 275: Workforce Preparation: MTA 98-375 HTML5 Fundamentals Certification (1 cr TC)</td>
<td>SDEV 255: Web Application Development (3 cr AAS)</td>
<td>Math 136: College Algebra (3 cr AAS)</td>
<td></td>
</tr>
<tr>
<td><strong>FALL</strong> Term 7</td>
<td>PHIL 102: Intro to Ethics (3 cr AAS)</td>
<td>SDEV 264: Mobile Application Development (3 cr AAS)</td>
<td></td>
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</tbody>
</table>

### Earned

#### Technical Certificate (32 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
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<th>Course</th>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td><strong>SPRING</strong> Term 8</td>
<td>SVAD 150: Cloud Foundations (3 cr AAS)</td>
<td>SDEV 200: Software Development Using Java (3 cr AAS)</td>
<td>SDEV 230: Software Development Using C++ (3 cr AAS)</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING</strong> Term 9</td>
<td>SDEV 265: System/Software Analysis &amp; Projects (3 cr AAS)</td>
<td>CPIN 279: Computing &amp; Informatics Exploration &amp; Evaluation (1 cr AAS)</td>
<td>SCIN 111: Physical Science (3 cr AAS)</td>
<td></td>
</tr>
</tbody>
</table>

### Earned

#### Associate of Applied Science (60 Credit Hours)

CT-Certificate (21 credits)  TC-Technical Certificate (32 credits)  AAS-Associate of Applied Science (60 credits)

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
CAREER OPPORTUNITIES

What can I do with this major?

• Applications Developer
• Systems Programmer
• Web Developer
• Webmaster

SOFTWARE DEVELOPMENT (WEBSITE DESIGN)

The Software Development Program prepares students to develop, test and maintain the software applications that people use every day with their computers and other technical devices. The coursework involves a combination of practical programming techniques and problem-solving skills. Learn more here: https://youtu.be/kt173DSDX5Q

SALARY OUTLOOK

$80,945

*Data is Average Annual Salary Specific to Indiana

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Next Level Jobs

You may be eligible for a free certificate offered through this degree program.

NextLevelJobs
INdiana

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# IvyTech.edu/Valparaiso 2022–23

## SOFTWARE DEVELOPMENT

### Completion Guide

### 8-WEEK SESSIONS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
<th>COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td><strong>FALL Term 2</strong></td>
<td><strong>SPRING Term 3</strong></td>
<td><strong>EARNED</strong></td>
</tr>
<tr>
<td>VISC 104: Experience/Interface (UX/UI) (3 cr) CT</td>
<td>VISC 115: Introduction to Computer Graphics (3 cr) CT</td>
<td>DBMS 110: Introduction to Data Analytics (3 cr) TC</td>
<td><strong>Certificate (18 Credit Hours)</strong></td>
</tr>
<tr>
<td>SDEV 120: Computing Logic (3 cr) CT</td>
<td>SDEV 153: Website Development (3 cr) CT</td>
<td>SDEV 155: Content Management Systems (3 cr) CT</td>
<td><strong>EARNED</strong></td>
</tr>
<tr>
<td>IVYT 115: Student Success (1 cr) TC</td>
<td>INFM 209: Informatics Fundamentals (3 cr) AAS</td>
<td>SDEV 140: Introduction to Software Development (3 cr) TC</td>
<td><strong>Technical Certificate (32 Credit Hours)</strong></td>
</tr>
</tbody>
</table>

### EARNED

#### SPRING Term 4
- COMM 101: Fundamentals of Public Speaking (3 cr) TC
- ENG 111: English Composition (3 cr) TC

#### SUMMER Term 5
- CPIN 269: Project Management (3 cr) TC
- SDEV 275: Workforce Preparation: MTA 98-375 HTML5 Fundamentals Certification (1 cr) TC

#### FALL Term 6
- SDEV 255: Web Application Development (3 cr) TC
- INFM 109: Informatics Fundamentals (3 cr) AAS
- Math 136: College Algebra (3 cr) AAS 16 weeks

#### FALL Term 7
- PHIL 102: Introduction to Ethics (3 cr) AAS
- SVAD 150: Cloud Foundations (3 cr) AAS

### EARNED

#### SPRING Term 8
- SDEV 230: Software Development Using C++ (3 cr) AAS
- SDEV 264: Mobile Application Development (3 cr) AAS

#### SPRING Term 9
- SDEV 265: System/Software Analysis & Projects (3 cr) AAS
- CPIN 279: Computing & Informatics Exploration & Evaluation (1 cr) AAS
- SCIN 111: Physical Science (3 cr) AAS

### EARNED

#### Associate of Applied Science (60 Credit Hours)
CT-Certificate (18 credits)  TC-Technical Certificate (32 credits)  AAS-Associate of Applied Science (60 credits)

* Suggested electives are stated, please see advisor for other options. Additionally, some courses may be offered at various times or course modalities.
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Welcome to the School of Arts, Sciences & Education at the Valparaiso Campus. We are known for small classes taught by expert faculty in classrooms and laboratories with the newest technology and equipment. We take pride in focusing on academic success for every student. Our experienced faculty provide high-quality education in a wide variety of subjects including English, anatomy and physiology, mathematics, communication, psychology, sociology, history, philosophy, foreign language, science and biology to prepare students for transfer to four-year colleges or universities as well as for directly entering the workforce after completion of an Associate Degree.

Our Elementary and Secondary Education programs give future teachers the opportunity to prepare for their careers with field experience and observation in local schools. Students participate in a wide variety of real-world experiences such as lesson planning, studying diversity in education, and preparing a portfolio.

Our Psychology program prepares students for careers as mental health assistants, youth counselors and home care aides. Our faculty have diverse academic preparation and experience in psychology to provide students with knowledge that directly applies to practices in the field. Students take a broad range of courses including Introduction to Psychology, Human Sexuality, Abnormal Psychology, and Theories of Personality.

Our Biology program takes students on a path of exciting discoveries while exploring the field of biological science and prepares graduates for different careers such as biologist, botanist, zoologist, medical technician, environmental scientist and forest ranger. Students have the opportunity to learn from top faculty in our updated laboratories while taking courses on cell biology, molecular biology, genetics and plant biology in addition to chemistry and physics.

Our programs in General Studies and Liberal Arts offer a wide variety of electives that focus on critical thinking, creative expression and scientific reasoning. The programs provide broad exposure in composition and literature, the humanities and sciences, mathematics, communication and multicultural awareness. Students can select from a variety of courses and disciplines to create a unique and personal education plan based on their interests or educational goals. Certifications can also be earned in communication and global studies.
The Biology Program at Ivy Tech focuses on the life and physical sciences, allowing students to explore various biology topics through elective courses including molecular biology, genetics and ecology. From studying gene expression to examining the complex relationships between organisms and the environment, students earn a well-rounded understanding of biology through in-person classes, online courses and lab exercises.

CAREER OPPORTUNITIES
What can I do with this major?
Biology program graduates will be able to work in a variety of jobs such as biological science lab technicians, forest conservation technicians, and medical laboratory technicians.

Working Toward Your Bachelor’s Degree?
Transfer as a Junior programs, officially known as TSAP (Transfer Single Articulation Pathways) programs, are based upon a curriculum agreed upon across all of the public institutions in Indiana. This program allows you to graduate from Ivy Tech Community College with an associate degree, then transfer directly to the four-year college or university directly as a junior. Visit ivytech.edu/TSAP for more information.

SALARY OUTLOOK
$56,357
*Data is Average Annual Salary Specific to Indiana

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Career Coach:
Cindi Czapla: cczapla@ivytech.edu; (219) 476-4757

Campus Main Line: (219) 464-8514
# Biology Completion Guide

**8-WEEK SESSIONS**

<table>
<thead>
<tr>
<th>Fall Term 1</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL 1</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
<td>BIOL 107: Biology II Diversity of Life (5 cr) 16 weeks</td>
<td>CHEM 105: General Chemistry I (5 cr) 16 weeks</td>
<td></td>
</tr>
<tr>
<td>FALL 2</td>
<td>ENGL 111: English Composition (3 cr)</td>
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</tr>
<tr>
<td>SPRING 3</td>
<td>PSYC 101: Introduction to Psychology (3 cr)</td>
<td>BIOL 105: Biology I Molecular &amp; Cellular Processes (5 cr) 16 weeks</td>
<td>CHEM 106: General Chemistry II (5 cr) 16 weeks</td>
<td></td>
</tr>
<tr>
<td>SPRING 4</td>
<td>PHIL 102: Introduction to Ethics (3 cr)</td>
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</tr>
<tr>
<td>FALL 5</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr)</td>
<td>MATH 211: Calculus I (4 cr) 16 weeks</td>
<td>BIOL 221: Molecular Biology (4 cr) 16 weeks</td>
<td>PHYS 101: Physics I (4 cr) 16 weeks</td>
</tr>
<tr>
<td>FALL 6</td>
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**Earned**

<table>
<thead>
<tr>
<th>Technical Certificate</th>
<th>(30 Credit Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRING 7</td>
<td>SOCI 111: Introduction to Sociology (3 cr)</td>
</tr>
<tr>
<td>SPRING 8</td>
<td>ENGL 215: Rhetoric &amp; Argument (3 cr)</td>
</tr>
<tr>
<td>BIOL 222: Genetics (4 cr) 16 weeks</td>
<td></td>
</tr>
<tr>
<td>BIOL 279: Introduction to Scientific Research (1 cr) 16 weeks</td>
<td></td>
</tr>
<tr>
<td>PHYS 102: Physics II (4 cr) 16 weeks</td>
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</tbody>
</table>

**Earned**

<table>
<thead>
<tr>
<th>Associate of Science - Biology Transfer as a Junior (TSAP)</th>
<th>(60 Credit Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRING 7</td>
<td>SOCI 111: Introduction to Sociology (3 cr)</td>
</tr>
<tr>
<td>SPRING 8</td>
<td>ENGL 215: Rhetoric &amp; Argument (3 cr)</td>
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<tr>
<td>BIOL 222: Genetics (4 cr) 16 weeks</td>
<td></td>
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<tr>
<td>BIOL 279: Introduction to Scientific Research (1 cr) 16 weeks</td>
<td></td>
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<tr>
<td>PHYS 102: Physics II (4 cr) 16 weeks</td>
<td></td>
</tr>
</tbody>
</table>

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
The Education Program helps future teachers prepare for a career on day one. In the first education course, students go into school settings for authentic field experience and observation time. From creating lesson plans to working on community engagement projects, students participate in a variety of real teaching experiences and scenarios.

CAREER OPPORTUNITIES
96.5% of Indiana public school districts are reporting a teacher shortage this year, a 9% drop over last year, according to an annual survey done through Indiana State University’s Bayh College of Education. Indiana ranks in the top 5 states with the highest demand for teachers. There are currently 817 jobs in the Indiana Department of Education Job Bank (January 2022).

SALARY OUTLOOK
$46,950

*Data is Average Annual Salary Specific to Indiana
*Varies by location based on completion of Bachelor’s Degree

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Campus Main Line: (219) 464-8514
# Elementary Education Completion Guide

## 8-Week Sessions

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong> Term 1</td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
<td>EDUC 101: Introduction to Teaching (3 cr) 16 weeks</td>
<td>MATH 123: Quantitative Reasoning (3 cr) 16 weeks</td>
</tr>
<tr>
<td><strong>FALL</strong> Term 2</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr)</td>
<td>EDUC 121: Child &amp; Adolescent Development (3 cr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SPRING</strong> Term 3</td>
<td>HIST 101: Survey of American History I (3 cr)</td>
<td>POLS 101: Introduction to American Government (3 cr)</td>
<td>BIOL 101: Introductory Biology (3 cr) 16 weeks</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING</strong> Term 4</td>
<td>EDUC 230: The Exceptional Child (3 cr)</td>
<td>EDUC 233: Literacy Development Through Children’s Literature (3 cr)</td>
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</table>

### Earned

#### Technical Certificate (30 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
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<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong> Term 5</td>
<td>EDUC 224: Introduction to Scientific Inquiry (3 cr)</td>
<td>ENGL 202: Creative Writing (3 cr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FALL</strong> Term 6</td>
<td>HIST 112: World Civilization II (3 cr)</td>
<td>SCIN 111: Physical Science (3 cr)</td>
<td>ARTH 110: Art Appreciation (3 cr)</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING</strong> Term 7</td>
<td>EDUC 240: Introduction to Physical &amp; Health Education for Teaching (3 cr)</td>
<td>MATH 141: Math for Elementary Teachers (4 cr)</td>
<td>SCIN 100: Earth Science (4 cr) 16 weeks</td>
<td></td>
</tr>
<tr>
<td><strong>SPRING</strong> Term 8</td>
<td>EDUC 250: Educational Psychology (3 cr)</td>
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</tr>
</tbody>
</table>

#### Earned

**Associate of Science - Elementary Education Transfer as a Junior (TSAP) (60 Credit Hours)**
CAREER OPPORTUNITIES

96.5% of Indiana public school districts are reporting a teacher shortage this year, a 9% drop over last year, according to an annual survey done through Indiana State University’s Bayh College of Education. Indiana ranks in the top 5 states with the highest demand for teachers. There are currently 817 jobs in the Indiana Department of Education Job Bank (January 2022).

SALARY OUTLOOK

$46,950

*Data is Average Annual Salary Specific to Indiana
*Varies by location based on completion of Bachelor’s Degree

Working Toward Your Bachelor’s Degree?

Transfer as a Junior programs, officially known as TSAP (Transfer Single Articulation Pathways) programs, are based upon a curriculum agreed upon across all of the public institutions in Indiana. This program allows you to graduate from Ivy Tech Community College with an associate degree, then transfer directly to the four-year college or university directly as a junior. Visit ivytech.edu/TSAP for more information.

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# Secondary Education - Biology Teaching Track
## Completion Guide

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Fall Term 1</td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>BIOL 107: Biology II Diversity of Life (5 cr) 16 weeks</td>
<td>CHEM 105: General Chemistry I (5 cr) 16 weeks</td>
<td>EDUC 101: Introduction to Teaching (3 cr) 16 weeks</td>
</tr>
<tr>
<td>Fall Term 2</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
<td>ARTH 110: Art Appreciation (3 cr)</td>
<td>BIOL 105: Biology I Molecular &amp; Cellular Processes (5 cr) 16 Weeks</td>
<td>CHEM 106: General Chemistry II (5 cr) 16 weeks</td>
</tr>
<tr>
<td>Spring Term 3</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr)</td>
<td>BIOL 105: Biology I Molecular &amp; Cellular Processes (5 cr) 16 Weeks</td>
<td>COMS 101: Public Speaking (3 cr)</td>
<td></td>
</tr>
<tr>
<td>Spring Term 4</td>
<td>HIST 101: Survey of American History (3 cr)</td>
<td>MATH 101: Calculus I (4 cr) 16 Weeks</td>
<td>MATH 211: Calculus I (4 cr) 16 Weeks</td>
<td>BIOL 221: Molecular Biology (4 cr) 16 Weeks</td>
</tr>
<tr>
<td>Fall Term 5</td>
<td>EDUC 201: Technology in Education (2 cr)</td>
<td>EDUC 121: Child &amp; Adolescent Development (3 cr)</td>
<td>MATH 211: Calculus I (4 cr) 16 Weeks</td>
<td></td>
</tr>
<tr>
<td>Fall Term 6</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
<td>ARTH 110: Art Appreciation (3 cr)</td>
<td>BIOL 105: Biology I Molecular &amp; Cellular Processes (5 cr) 16 Weeks</td>
<td>CHEM 106: General Chemistry II (5 cr) 16 weeks</td>
</tr>
</tbody>
</table>

**Technical Certificate (30 Credit Hours)**
- EDUC 255: Multicultural Teaching (3 cr)
- BIOL 222: Genetics (4 cr) 16 Weeks
- PHYS 101: Physics I (4 cr) 16 Weeks
- BIOL 221: Molecular Biology (4 cr) 16 Weeks

**Associate of Science - Secondary Education Biology Transfer as a Junior (TSAP) (63 Credit Hours)**
The Education Program helps future teachers prepare for a career on day one. In the first education course, students go into school settings for authentic field experience and observation time. From creating lesson plans to working on community engagement projects, students participate in a variety of real teaching experiences and scenarios.

CAREER OPPORTUNITIES
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SALARY OUTLOOK
$46,950
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(219) 476-4701

YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS

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Career Coach:
Cindi Czapla: cczapla@ivytech.edu; (219) 476-4757

Campus Main Line: (219) 464-8514
# Secondary Education - Math Teaching Track Completion Guide

<table>
<thead>
<tr>
<th>8-WEEK SESSIONS</th>
<th>COURSE</th>
<th>COURSE</th>
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<th>COURSE</th>
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</thead>
<tbody>
<tr>
<td><strong>FALL Term 1</strong></td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>MATH 211: Calculus I (4 cr)</td>
<td>EDUC 101: Introduction to Teaching (3 cr)</td>
<td>SCIN 100: Earth Science (4 cr)</td>
</tr>
<tr>
<td><strong>FALL Term 2</strong></td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
<td></td>
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</tr>
<tr>
<td><strong>SPRING Term 3</strong></td>
<td>HIST 101: Survey of American History (3 cr)</td>
<td>ARTH 110: Art Appreciation (3 cr)</td>
<td>MATH 212: Calculus II (4 cr)</td>
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</tr>
<tr>
<td><strong>SPRING Term 4</strong></td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr)</td>
<td>SCIN 111: Physical Science (3 cr)</td>
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</tr>
<tr>
<td><strong>FALL Term 5</strong></td>
<td>SOCI 111: Introduction to Sociology (3 cr)</td>
<td></td>
<td>MATH 261: Multivariate Calculus (4 cr)</td>
<td>MATH 251: Introduction to Mathematical Statistics (3 cr)</td>
</tr>
<tr>
<td><strong>FALL Term 6</strong></td>
<td>EDUC 201: Technology in Education (2 cr)</td>
<td>EDUC 121: Child &amp; Adolescent Development (3 cr)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## EARNED

### Technical Certificate (30 Credit Hours)

| **SPRING Term 7** | **CHOOSE ONE OF THE FOLLOWING**: EDUC 255: Multicultural Teaching (3 cr) | MATH 265: Linear Algebra (3 cr) | MATH 264: Differential Equations (3 cr) |
| **SPRING Term 8** | EDUC 250: Educational Psychology (3 cr) | ENGL 215: Rhetoric & Argument (3 cr) | | |

### EARNED

**Associate of Science - Secondary Education Math Transfer as a Junior (TSAP) (61 Credit Hours)**
CAREER OPPORTUNITIES

What can I do with this major?

Graduates of the General Studies degree at Ivy Tech have been able to transfer into bachelor's degree programs at four-year institutions.

Some of our graduates have also been able to move directly into the workforce working in a wide variety of industries.

Working Toward Your Bachelor’s Degree?

Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

SALARY OUTLOOK

$25,000 to $75,000 annual salary

EARN MORE & IMPROVE YOUR SKILLS

For a good-paying job, invest in your education! With an associate degree from Ivy Tech Community College, you’ll earn an average $8,000 more each year than you would with just a high school diploma.

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Campus Main Line: (219) 464-8514
# GENERAL STUDIES Completion Guide

## 8-WEEK SESSIONS

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL Term 1</td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>PSYC 101: Introduction to Psychology (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
<td>MATH 123: Quantitative Reasoning (3 cr) 16 weeks</td>
</tr>
<tr>
<td>FALL Term 2</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr)</td>
<td>SOCI 111: Introduction to Sociology (3 cr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPRING Term 3</td>
<td>HIST 101: Survey of American History I (3 cr)</td>
<td>COMM 102: Introduction to Interpersonal Communication (3 cr)</td>
<td>SCIN 100: Earth Science (4 cr) 16 weeks</td>
<td></td>
</tr>
<tr>
<td>SPRING Term 4</td>
<td>ARTH 110: Art Appreciation (3 cr)</td>
<td>PHIL 102: Introduction to Ethics (3 cr)</td>
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</tr>
</tbody>
</table>

## EARNED

### Technical Certificate (30 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL Term 5</td>
<td>Statewide Elective</td>
<td>Statewide Elective</td>
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<tr>
<td>FALL Term 6</td>
<td>ENGL 215: Rhetoric &amp; Argument (3 cr)</td>
<td>Statewide Elective</td>
<td>Statewide Elective</td>
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<tr>
<td>SPRING Term 7</td>
<td>POLS 101: Introduction to American Government (3 cr)</td>
<td>Statewide Elective</td>
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</tr>
<tr>
<td>SPRING Term 8</td>
<td>SOCI 164: Multicultural Studies (3 cr)</td>
<td>GENS 279: General Studies Capstone (1 cr)</td>
<td>Statewide Elective</td>
<td></td>
</tr>
</tbody>
</table>

## EARNED

### Associate of General Studies (60 Credit Hours)

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
CAREER OPPORTUNITIES

What can I do with this major?
The Liberal Arts degree prepares students to transfer into four-year universities where they can receive a bachelor’s degree. We have articulation partners all across the state with four-year institutions.

Working Toward Your Bachelor’s Degree?
Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

SALARY OUTLOOK

$25,000 to $75,000 annual salary

EARN MORE & IMPROVE YOUR SKILLS

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Campus Main Line: (219) 464-8514
# Liberal Arts (Assoc. of Arts) Completion Guide

## 8-Week Sessions

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>ENGL 111: English Composition</td>
<td>PSYC 101: Introduction to Psychology</td>
<td>IVYT 111: Student Success</td>
<td>MATH 123: Quantitative Reasoning</td>
</tr>
<tr>
<td>Term 1</td>
<td>(3 cr)</td>
<td>(3 cr)</td>
<td>(1 cr) 4 day recommended</td>
<td>(3 cr) 16 weeks</td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td>COMM 101: Fundamentals of Public Speaking</td>
<td>SOCI 111: Introduction to Sociology</td>
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</tr>
<tr>
<td>Term 2</td>
<td>(3 cr)</td>
<td>(3 cr)</td>
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</tr>
<tr>
<td><strong>Spring</strong></td>
<td>HIST 101: Survey of American History</td>
<td>COMM 102: Introduction to Interpersonal Communication</td>
<td>ASTR 101: Solar System Astronomy</td>
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</tr>
<tr>
<td>Term 3</td>
<td>I (3 cr)</td>
<td>(3 cr)</td>
<td>(3 cr)</td>
<td>(3 cr)</td>
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<tr>
<td><strong>Spring</strong></td>
<td>ARTH 110: Art Appreciation</td>
<td>PHIL 102: Introduction to Ethics</td>
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<tr>
<td>Term 4</td>
<td>(3 cr)</td>
<td>(3 cr)</td>
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## Earned Technical Certificate (30 Credit Hours)

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>ENGL 202: Creative Writing</td>
<td>ARTH 101: Survey of Art &amp; Culture I</td>
<td>SPAN 101: Spanish Level I</td>
<td></td>
</tr>
<tr>
<td>Term 5</td>
<td>(3 cr)</td>
<td>(3 cr)</td>
<td>(4 cr)</td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td>HUMA 118: Music Appreciation</td>
<td>ENGL 215: Rhetoric &amp; Argument</td>
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</tr>
<tr>
<td>Term 6</td>
<td>(3 cr)</td>
<td>(3 cr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>POLS 101: Introduction to American Government</td>
<td></td>
<td>ECON 101: Economics Fundamentals</td>
<td>SPAN 102: Spanish Level II</td>
</tr>
<tr>
<td>Term 7</td>
<td>(3 cr)</td>
<td></td>
<td>(3 cr)</td>
<td>(4 cr)</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>SOCI 164: Multicultural Studies</td>
<td>GENS 279: General Studies Capstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Term 8</td>
<td>(3 cr)</td>
<td>(1 cr)</td>
<td></td>
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</tr>
</tbody>
</table>

## Earned Associate of Arts (60 Credit Hours)

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
CAREER OPPORTUNITIES

What can I do with this major?
The Liberal Arts degree prepares students to transfer into four-year universities where they can receive a bachelor’s degree. We have articulation partners all across the state with four-year institutions.

Working Toward Your Bachelor’s Degree?
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SALARY OUTLOOK

$25,000 to $75,000 annual salary

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# Liberal Arts (Assoc. of Science) Completion Guide

**8-Week Sessions**

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<th>Course 2</th>
<th>Course 3</th>
<th>Course 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL Term 1</td>
<td>ENGL 111: English Composition (3 cr)</td>
<td>PSYC 101: Introduction to Psychology (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) recommended</td>
<td>MATH 136: College Algebra (3 cr) 16 weeks</td>
</tr>
<tr>
<td>FALL Term 2</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr)</td>
<td>SOCI 111: Introduction to Sociology (3 cr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPRING Term 3</td>
<td>HIST 101: Survey of American History I (3 cr)</td>
<td>COMM 102: Introduction to Interpersonal Communication (3 cr)</td>
<td>ASTR 101: Solar System Astronomy (3 cr)</td>
<td></td>
</tr>
<tr>
<td>SPRING Term 4</td>
<td>ARTH 110: Art Appreciation (3 cr)</td>
<td>MATH 137: Trigonometry with Analytic Geometry (3 cr)</td>
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</table>

**Earned**

**Technical Certificate (30 Credit Hours)**

<table>
<thead>
<tr>
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<th>Course 4</th>
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</thead>
<tbody>
<tr>
<td>FALL Term 5</td>
<td>ENGL 202: Creative Writing (3 cr)</td>
<td>ARTH 101: Survey of Art &amp; Culture I (3 cr)</td>
<td>BIOL 101: Introductory Biology (3 cr) 16 weeks</td>
<td></td>
</tr>
<tr>
<td>FALL Term 6</td>
<td>PHIL 102: Introduction to Ethics (3 cr)</td>
<td>ENGL 215: Rhetoric &amp; Argument (3 cr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPRING Term 7</td>
<td>POLS 101: Introduction to American Government (3 cr)</td>
<td></td>
<td>ECON 101: Economics Fundamentals (3 cr) 16 weeks</td>
<td>SCIN 100: Earth Science (4 cr) 16 weeks</td>
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<tr>
<td>SPRING Term 8</td>
<td>SOCI 164: Multicultural Studies (3 cr)</td>
<td>GENS 279: General Studies Capstone (1 cr)</td>
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</tbody>
</table>

**Earned**

**Associate of Science (60 Credit Hours)**

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
Psychology instructors at Ivy Tech have a sound academic preparation in psychology and a wide variety of practical experiences in applying psychological knowledge in the workplace. The Ivy Tech psychology course curriculum is broad, ranging from Introductory Psychology to more specialized courses such as Human Sexuality, Abnormal Psychology, and Theories of Personality. Graduates will be awarded an Associate of Science in Psychology.

CAREER OPPORTUNITIES

What can I do with this major?

- Mental Health Assistant
- Youth Counselor
- Home Health Aide
- Addiction Rehabilitation
- Transfer

SALARY OUTLOOK

$46,851

*Data is Average Annual Salary Specific to Indiana

Working Toward Your Bachelor’s Degree?

Transfer as a Junior programs, officially known as TSAP (Transfer Single Articulation Pathways) programs, are based upon a curriculum agreed upon across all of the public institutions in Indiana. This program allows you to graduate from Ivy Tech Community College with an associate degree, then transfer directly to the four-year college or university directly as a junior. Visit ivytech.edu/TSAP for more information.

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<table>
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<tr>
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<td>ENGL 111: English Composition (3 cr)</td>
<td>PSYC 101: Introduction to Psychology (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
<td>Math 136: College Algebra (3 cr) 16 weeks</td>
</tr>
<tr>
<td>FALL Term 2</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr)</td>
<td>SOCI 111: Introduction to Sociology (3 cr)</td>
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</tr>
<tr>
<td>SPRING Term 3</td>
<td>COMM 102: Introduction to Interpersonal Communication (3 cr)</td>
<td>PSYC 205: Abnormal Psychology (3 cr)</td>
<td>BIOL 101: Introductory Biology (3 cr) 16 weeks</td>
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<tr>
<td>SPRING Term 4</td>
<td>ARTH 110: Art Appreciation (3 cr)</td>
<td>PSYC 201: Lifespan Development (3 cr)</td>
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<tr>
<td>FALL Term 5</td>
<td>SOCI 252: Social Problems (3 cr)</td>
<td>ENGL 202: Creative Writing (3 cr)</td>
<td>SPAN 101: Spanish Level I (4 cr) 16 weeks</td>
<td></td>
</tr>
<tr>
<td>FALL Term 6</td>
<td>PHIL 102: Introduction to Ethics (3 cr)</td>
<td>ENGL 215: Rhetoric &amp; Argument (3 cr)</td>
<td></td>
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</tbody>
</table>

**Earned**

Technical Certificate  
(30 Credit Hours)

| SPRING Term 7 | PSYC 253: Introduction to Social Psychology (3 cr) | PSYC 212: Research Methods Psychology (4 cr) 16 weeks | SPAN 102: Spanish Level II (4 cr) 16 Weeks | |
| SPRING Term 8 | SOCI 164: Multicultural Studies (3 cr) | | | |

**Earned**

Associate of Science - Psychology Transfer as a Junior (TSAP)  
(60 Credit Hours)

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
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Ivy+

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FREE CLASSES AFTER 12 CREDITS

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The School of Nursing offers two nursing programs. The Practical Nursing (PN) program requires three consecutive semesters of instruction to receive a Technical Certificate. Graduating with a Technical Certificate from our PN program makes you eligible to take the National Council Licensure Examination (NCLEX) to become a Licensed Practical Nurse (LPN).

The second nursing program is the Associate of Science in Nursing (ASN) program. Our ASN program has three tracks. The Traditional Track is four semesters, not including summers. The LPN to ASN Transitional Track is three consecutive semesters, including summers. As of Spring 2022, we are happy to say we have started a third track of the ASN program with the Paramedic to ASN Transitional Track, which is three consecutive semesters, including summers. Graduating from the ASN program will make you eligible to take the NCLEX to become a Registered Nurse (RN).

Our NCLEX pass rates have been maintained above the 80% benchmark for the NCLEX-RN for the past six years at the Valparaiso Campus. Pass rates for ASN were 92% in 2021. Over the last 12 years, we have maintained an overall pass rate of 98.5% for the PN program. Pass rates for PN were 100% in 2021.

We have outstanding nursing faculty and staff. They are approachable, consistent and supportive to help students reach their education goals. They are knowledgeable in their subject matter. We have an outstanding simulation coordinator with a simulation technician. Our simulation space is state-of-the-art (picture below). Our nursing lab is conducive to learning (picture below).

Please don't hesitate to email me with any questions you have, and I will be happy to answer. My contact information is printed on the front pages of all Nursing program sheets.
CAREER OPPORTUNITIES
What can I do with this major?
ASN graduates are qualified to work in hospitals, nursing and residential care facilities, home healthcare, physician offices, schools and health departments.

Working Toward Your Bachelor’s Degree?
Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

SALARY OUTLOOK
$64,991
*Data is Average Annual Salary Specific to Indiana

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Academic Advisor:
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Cheryl Austin, Administrative Assistant: (219) 476-4736

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# NURSING (TSAP FALL START) Completion Guide

<table>
<thead>
<tr>
<th>Term</th>
<th>COURSE</th>
<th>COURSE</th>
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<tbody>
<tr>
<td>FALL Term 1</td>
<td>APHY 101: Anatomy &amp; Physiology I (3 cr)</td>
<td>ENGL 111: English Composition (3 cr)</td>
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<tr>
<td>FALL Term 2</td>
<td>APHY 102: Anatomy &amp; Physiology II (3 cr)</td>
<td>PSYC 101: Introduction to Psychology (3 cr)</td>
<td>IVYT 111: Student Success (1 cr) 4 day recommended</td>
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<tr>
<td>SPRING Term 3</td>
<td>MATH 123: Quantitative Reasoning (3 cr)</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr)</td>
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<tr>
<td>SPRING Term 4</td>
<td>SOCI 111: Intro to Sociology (3 cr)</td>
<td>BIOL 201: Microbiology (3 cr)</td>
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<tr>
<td>FALL Term 5 &amp; Term 6</td>
<td>APHY 201: Advanced Human Physiology (3 cr) 16 weeks</td>
<td>HUMA: Humanities Course (3 cr) 16 weeks</td>
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<tr>
<td>SPRING Term 7</td>
<td>NRSG 100: Fundamentals (3 cr)</td>
<td>NRSG 105: Medical Surgical Nursing I Clinical (2 cr)</td>
<td>NRSG 115: Nursing Lab (3 cr) 16 weeks</td>
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<tr>
<td>SPRING Term 8</td>
<td>NRSG 102: Medical Surgical Nursing I (3 cr)</td>
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<tr>
<td>FALL Term 9</td>
<td>NRSG 110: Medical Surgical II (3 cr)</td>
<td>NRSG 111: Medical Surgical Nursing Clinical II (2 cr)</td>
<td>NRSG 106: Pharmacology (3 cr) 16 weeks</td>
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<tr>
<td>FALL Term 10</td>
<td>NRSG 126: Mental Health Nursing (2 cr)</td>
<td>NRSG 127: Mental Health Nursing Clinical (2 cr)</td>
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<tr>
<td>SPRING Term 11 &amp; Term 12</td>
<td>NRSG 206: NRSG Care of Childbearing Family (4 cr) 16 weeks</td>
<td>NRSG 207: NRSG Care of Childbearing Clinical (2 cr) 16 weeks</td>
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<tr>
<td>FALL Term 13 &amp; Term 14</td>
<td>NRSG 200: Complex Medical-Surgical Nursing for ASN (3 cr) 16 weeks</td>
<td>NRSG 201: Complex Medical-Surgical Nursing for ASN Clinical (4 cr) 16 weeks</td>
<td>NRSG 208: Practice Issues Associate Degree (2 cr)</td>
<td></td>
</tr>
</tbody>
</table>

**Earned**

**Associate of Nursing (71 Credit Hours)**
CAREER OPPORTUNITIES

What can I do with this major?
ASN graduates are qualified to work in hospitals, nursing and residential care facilities, home healthcare, physician offices, schools and health departments.

Working Toward Your Bachelor’s Degree?
Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

SALARY OUTLOOK

$64,991

*Data is Average Annual Salary Specific to Indiana

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Campus Main Line: (219) 464-8514

Cheryl Austin, Administrative Assistant: (219) 476-4736
## NURSING (TSAP SPRING START) Completion Guide

**IvyTech.edu/Valparaiso 2022–23**

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<thead>
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<td><strong>FALL Term 3</strong></td>
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<td>ENGL 111: English Composition (3 cr)</td>
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<td>SOCI 111: Intro to Sociology (3 cr)</td>
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<td>NRSG 102: Medical Surgical Nursing I (3 cr)</td>
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<td><strong>FALL Term 11 &amp; Term 12</strong></td>
<td><strong>FALL Term 11 &amp; Term 12</strong></td>
<td><strong>FALL Term 11 &amp; Term 12</strong></td>
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<tr>
<td>NRSG 110: Medical Surgical Nursing II (3 cr)</td>
<td>NRSG 111: Medical Surgical Nursing Clinical II (2 cr)</td>
<td>NRSG 106: Pharmacology (3 cr)</td>
<td>NRSG 206: NRSN Care of Childbearing Family (4 cr) 16 weeks</td>
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<tr>
<td><strong>SPRING Term 13 &amp; Term 14</strong></td>
<td><strong>SPRING Term 13 &amp; Term 14</strong></td>
<td><strong>SPRING Term 13 &amp; Term 14</strong></td>
<td><strong>SPRING Term 13 &amp; Term 14</strong></td>
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<tr>
<td>NRSG 126: Mental Health Nursing (2 cr)</td>
<td>NRSG 127: Mental Health Nursing Clinical (2 cr)</td>
<td>NRSG 207: NRSN Care of Childbearing Clinical (2 cr) 16 weeks</td>
<td>NRSG 208: Practice Issues Associate Degree (2 cr)</td>
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<tr>
<td>NRSG 206: NRSN Care of Childbearing Family (4 cr) 16 weeks</td>
<td>NRSG 207: NRSN Care of Childbearing Clinical (2 cr) 16 weeks</td>
<td>NRSG 208: Practice Issues Associate Degree (2 cr)</td>
<td><strong>Apply to ASN Program May Application Cycle, Start Fall</strong></td>
</tr>
</tbody>
</table>

**EARNED**

**Associate of Nursing (71 Credit Hours)**
CAREER OPPORTUNITIES

What can I do with this major?
ASN graduates are qualified to work in hospitals, nursing and residential care facilities, home healthcare, physician offices, schools and health departments.

Working Toward Your Bachelor’s Degree?

Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

SALARY OUTLOOK

$64,991

*Data is Average Annual Salary Specific to Indiana

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Cheryl Austin, Administrative Assistant: (219) 476-4736
# NURSING (LPN to ASN) Completion Guide

## 8-WEEK SESSIONS

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<tr>
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<td>MATH 123: Quantitative Reasoning (3 cr)</td>
<td>SOCI 111: Intro to Sociology (3 cr)</td>
<td>NRSG 122: Introduction to ASN Transition (5 cr)</td>
<td>NRSG 125: LPN to ASN Lab (1 cr)</td>
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<tr>
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<td>NRSG 206: Care of Childbearing Family (4 cr) 16 weeks</td>
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<td></td>
<td></td>
<td>NRSG 201: Complex Medical Surgical NSG for ASN Clinical (4 cr) 16 weeks</td>
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</tbody>
</table>

## Associate of Nursing (74-77 Credit Hours)

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.

Apply to the LPN to ASN Track in February, Summer Start
CAREER OPPORTUNITIES

What can I do with this major?
ASN graduates are qualified to work in hospitals, nursing and residential care facilities, home healthcare, physician offices, schools and health departments.

Working Toward Your Bachelor’s Degree?
Graduates of our Associate of Science (AS) degree can transfer to a four-year institution. Visit our Transfer Page for more information.

SALARY OUTLOOK

$64,991

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Cheryl Austin, Administrative Assistant: (219) 476-4736
# NURSING (PARM to ASN) Completion Guide

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<th>TERM</th>
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<td>PSYC 101: Introduction to Psychology (3 cr)</td>
<td>IVYT 111: Student Success (1 cr)</td>
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<tr>
<td><strong>FALL Term 3</strong></td>
<td>MATH 123: Quantitative Reasoning (3 cr)</td>
<td>COMM 101: Fundamentals of Public Speaking (3 cr)</td>
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<tr>
<td><strong>FALL Term 4</strong></td>
<td>SOCI 111: Intro to Sociology (3 cr)</td>
<td>BIOL 201: Microbiology (3 cr)</td>
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<tr>
<td><strong>SPRING Term 5 &amp; Term 6</strong></td>
<td>APHY 201: Advanced Human Physiology (3 cr) 16 weeks</td>
<td>HUMA: Humanities Course (3 cr) 16 weeks</td>
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<tr>
<td><strong>SPRING Term 7</strong></td>
<td>NRSG 122: Introduction to ASN Transition (5 cr)</td>
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<td>NRSG 123: Transition ASN Lab/Clinical (3 cr) 16 weeks</td>
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<tr>
<td><strong>SPRING Term 8</strong></td>
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<td><strong>FALL Term 10</strong></td>
<td>NRSG 208: Practice Associate Degree (2 cr)</td>
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<td>NRSG 201: Complex Medical Surgical NSG for ASN (3 cr) 16 weeks</td>
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</tr>
</tbody>
</table>
| **FALL Term 11** | | | | |}

**Note:** Some courses may be offered at various times or course modality. Please speak to your advisor for those options.

**Earned:** Associate of Nursing (76-79 Credit Hours)
CAREER OPPORTUNITIES

What can I do with this major?
PN graduates are qualified to provide basic care, under the direction of registered nurses and doctors, for patients in a variety of healthcare settings such as nursing homes, extended care facilities, hospitals, clinics, home healthcare and physician offices.

Next Level Jobs
You may be eligible for a free certificate offered through this degree program.

SALARY OUTLOOK

$64,991

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Career Coach:
Cindi Czapla: cczapla@ivytech.edu; (219) 476-4757

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Cheryl Austin, Administrative Assistant: (219) 476-4736

Students in the Nursing and Practical Nursing programs at Ivy Tech gain valuable skills and experiences by caring for real patients in a variety of clinical settings including lab simulations. The growing use of simulations in nursing schools allow students to assume roles that are typically unavailable in a clinical setting, allowing students to make critical choices and see the results of those decisions.

Next Level Jobs INDIANA

2022-23

Campus Main Line: (219) 464-8514
Cheryl Austin, Administrative Assistant: (219) 476-4736
# PRACTICAL NURSING TC (FALL START) Completion Guide

<table>
<thead>
<tr>
<th>Term</th>
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<td>NRS 101: Fundamentals (3 cr)</td>
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<td>NRS 106: Pharmacology (3 cr)</td>
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<td>NRS 117: Geriatric/Complex Medical Surgical Clinical (2 cr)</td>
<td>NRS 128: Practical Issues for PN (2 cr)</td>
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</table>

**EARNED**

Practical Nursing Technical Certificate (45 Credit Hours)

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.
Students in the Nursing and Practical Nursing programs at Ivy Tech gain valuable skills and experiences by caring for real patients in a variety of clinical settings including lab simulations. The growing use of simulations in nursing schools allow students to assume roles that are typically unavailable in a clinical setting, allowing students to make critical choices and see the results of those decisions.

CAREER OPPORTUNITIES

What can I do with this major?
PN graduates are qualified to provide basic care, under the direction of registered nurses and doctors, for patients in a variety of healthcare settings such as nursing homes, extended care facilities, hospitals, clinics, home healthcare and physician offices.

EARN MORE & IMPROVE YOUR SKILLS

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### Practical Nursing Technical Certificate (SPRING START)

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</table>

Some courses may be offered at various times or course modality. Please speak to your advisor for these options.
FROZEN TUITION
FREE TEXTBOOKS
FREE CLASSES AFTER 12 CREDITS

Apply Today
List of Programs Offered at Michigan City Site

- Industrial Mechanical Technology
- Manufacturing Production and Operations (via Distance Education)
- Psychology
- Education (Elementary)
- General Studies
- Liberal Arts
- Accounting (via Distance Education)
- Bookkeeper
- Business Administration
- Business Operations, Applications & Technology
- CDL Plus
- Microsoft Office Specialist
- Supply Chain Management
- Certified Nursing Aide
- Dementia Care
- Healthcare Specialist
- Medical Assisting
- Medical Office Administration
- Outpatient Insurance Coding
- Pre-Nursing Studies
- Computer Science (via Distance Education)
- Cyber Security/Information Assurance (via Distance Education)
- Data Analytics (via Distance Education)
- Informatics (via Distance Education)
- Microsoft Administration (via Distance Education)
- Software Development (via Distance Education)
- Web Application Development (via Distance Education)
- Web Foundation
- Criminal Justice (via Distance Education)
- Homeland Security
- Human Services (via Distance Education)
- Legal Studies (via Distance Education)
INDUSTRIAL TECHNOLOGY
MECHANICAL

The Industrial Mechanical Program is designed to prepare students for work in both large and small industrial environments, with a wide variety of equipment. Students receive hands-on training on hydraulic systems, industrial automation, relay systems, mechanical drives, machine installation and industrial safety. Learn more here: https://youtu.be/OdddGNFCNFk

CAREER OPPORTUNITIES

What can I do with this major?

- Industrial Maintenance Technician
- Machine Installer
- Controls Technician
- Field Service Technician

Job opportunities are widely available. Work for companies like:

- NLMK
- Cleveland Cliffs
- Nexus RV
- Shoremset
- CosMyFy
- 5 Star Engineering
- Waste Away Group

SALARY OUTLOOK

$42,975

*Data is Average Annual Salary Specific to Indiana

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Mark Antrim: mantrim3@ivytech.edu; ext. 3119

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Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# INDUSTRIAL TECHNOLOGY MECHANICAL

## Completion Guide

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<td>Term 6</td>
<td>ADMF 112: Mechanical Drives I (3 cr)</td>
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### Earned

**Industrial Mechanical Certificate (21 Credit Hours)**

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.

### Additional Ivy Tech Degrees Offered:
- Industrial Mechanical Technology Technical Certificate (34 credit hours)
- Associate of Applied Science (60 credit hours)

Many of the general studies courses needed for these degrees can be taken at the Michigan City site location. The renaming core mechanical courses would need to be taken at the Valparaiso Campus location.
CAREER OPPORTUNITIES

What can I do with this major?

- Industrial Maintenance Technician
- Electrical Apprentice
- Controls Technician
- Field Service Technician

Job opportunities are widely available. Work for companies like:

- NLMK
- Cleveland Cliffs
- Nexus RV
- Shoremet
- CosMyFy
- 5 Star Engineering
- Waste Away Group

SALARY OUTLOOK

$42,975

*Data is Average Annual Salary Specific to Indiana

EARN MORE & IMPROVE YOUR SKILLS

For a good-paying job, invest in your education! With an associate degree from Ivy Tech Community College, you’ll earn an average $8,000 more each year than you would with just a high school diploma.

APPLY NOW FOR FREE

ivytech.edu/ivyexplore
Valparaiso-Admissions@ivytech.edu
(219) 476-4701

YOU’VE GOT QUESTIONS; WE’VE GOT ANSWERS

Dean:
Jennifer Furmanek: jfurmanek@ivytech.edu; (219) 476-4740

Academic Advisor:
Ashley Wittmer: awittmer4@ivytech.edu; (219) 476-4753

Department Chair:
Mark Antrim: mantrim3@ivytech.edu; ext. 3119

Career Coach:
Andrew Miles: amiles94@ivytech.edu; (219) 476-4772

Campus Main Line: (219) 464-8514
# INDUSTRIAL TECHNOLOGY ELECTRICAL

## Completion Guide

**Location: La Porte Site**

### 8-WEEK SESSIONS

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<tr>
<td><strong>SUMMER Term 1</strong></td>
<td><strong>FALL Term 2</strong></td>
<td><strong>FALL Term 3</strong></td>
<td><strong>SPRING Term 4</strong></td>
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<tr>
<td>INDT 113: Industrial Electrical I (3 cr)</td>
<td>INDT 103: Motors &amp; Motor Controls (3 cr)</td>
<td>INDT 204: Electrical Circuits (3 cr)</td>
<td>ADMF 101: Key Principles of Advanced Manufacturing (3 cr)</td>
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<td><strong>SPRING Term 5</strong></td>
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<td>ADMF 102: Technology in Advanced Manufacturing (3 cr)</td>
<td>INDT 205: Programmable Automations I (3 cr)</td>
<td>INDT 125: Industrial Wiring Principles (3 cr)</td>
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**Industrial Electrical Certificate** (21 Credit Hours)

Some courses may be offered at various times or course modality. Please speak to your advisor for those options.

**Additional Ivy Tech Degrees Offered:**
- Industrial Electrical Technology Technical Certificate (34 credit hours)
- Associates of Applied Science (60 credit hours)

Many of the general studies courses needed for these degrees can be taken at the Michigan City site location. The renaming core electrical courses would need to be taken at the Valparaiso Campus location.
Benefits of our classes:

- **Small Class Sizes**
- **Certified Instructors**
- **Career Opportunities**

As a recruiter for TMC, I appreciate the quality of instruction DriveCo offers their students. We visit and hire grads from DriveCo on a regular basis. They come prepared and ready to start their new careers with us. The staff and instructors genuinely care about their students on a one-to-one basis and do a great job of preparing them for their new careers. – *Andrew Richter*

**SALARY OUTLOOK**

$45,000 to $65,000 annual salary

*Data is specific to Indiana and taken from BLS 2020*

**Training consists of both classroom instruction and hands-on training in our practice yard and on the road. This course prepares students for both the written permit and the behind-the-wheel exam to receive a Class A CDL. After receiving their Commercial Driver’s License, students will be eligible for employment as an entry-level driver.**

Enroll Today or Learn More Here:

- **Website:** [www.ivytech.edu/laporte](http://www.ivytech.edu/laporte)
- **Email:** Valparaiso-workforcealignment@ivytech.edu
- **Phone:** (219) 861-1222
Benefits of our classes:

- **Small Class Sizes**
- **Certified Instructors**
- **Direct Career Opportunity upon Completion**
- **Tuition Assistance Available***

**SALARY OUTLOOK**

$60,000 to $70,000 annual salary

*Data is specific to Indiana and taken from BLS 2020

Training consists of both classroom instruction and hands-on training in our practice yard and on the road. This course prepares students for both the written permit and the behind-the-wheel exam in order to receive a Class A CDL. After receiving the Commercial Drivers License, students will be eligible for employment with KLLM.

**Truck Drivers are in High Demand!**

According to the American Trucking Association, 60,000 drivers are needed nationwide to end the current truck driver shortage.

[https://www.trucking.org/](https://www.trucking.org/)

**Enroll Today or Learn More Here:**

Danielle Harris, Navigator: dharris313@ivytech.edu
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Phone: (800) 925-1000 ext. 6140
Our Service Area