



**INDIANHILLS**  
COMMUNITY COLLEGE

*Life. Changing.*



**2024-2025**

**ACADEMY COURSE GUIDE**

**INDIAN HILLS COMMUNITY COLLEGE**

# WHY SHOULD YOU TAKE CONNECT 2 COLLEGE COURSES WHILE IN HIGH SCHOOL?

**EARN BOTH  
HIGH SCHOOL AND  
COLLEGE CREDIT!**  
*(at the same time)*

**RECEIVE  
HANDS-ON  
INSTRUCTION!**

**GET A  
HEAD START  
ON A COLLEGE  
EDUCATION!**

**TAKE  
COLLEGE COURSES  
AT NO COST  
TO YOU!**

*And, check out  
this deal!*

**TAKE INDIAN HILLS CLASSES WHILE IN HIGH SCHOOL AND  
YOU'LL QUALIFY FOR A \$1,000 SCHOLARSHIP TO INDIAN HILLS.**

## ATA GLANCE

**1,599**

total number of  
concurrent students

**79**

students graduated with  
their high school diploma and  
an IHCC college degree

**\$3,722**

average amount saved  
per student

**\$5,951,401**

total amount saved by  
all concurrent students

This scholarship is available to Indian Hills Community College concurrent enrollment students who wish to continue their academic studies at IHCC. This \$1,000 award is applicable towards tuition, books, and fees and will be divided evenly between the student's first three terms.

This is a one-time, non-renewable, non-transferable scholarship. Other Foundation scholarships and club scholarships can be awarded to students in conjunction with the Connect 2 College scholarship.

### QUALIFICATIONS:

- Graduated from a high school and attending IHCC for the first time
- An overall minimum GPA of 2.0 in IHCC concurrent enrollment courses
- Maintain 2.0 cumulative GPA while enrolled with IHCC
- Students must complete the application for scholarship
- *Candidates are also encouraged to complete the FAFSA, however, are not required to do so.*

Candidates receiving this scholarship must be enrolled in a minimum of 6 credit hours per term at IHCC.

**WHAT'S EVEN BETTER IS THAT YOU MAY ALSO QUALIFY FOR ADDITIONAL  
INDIAN HILLS SCHOLARSHIPS AS WELL AS FINANCIAL AID.**



# 2024-2025 HEALTH SCIENCES HIGH SCHOOL OFFERINGS

## HEALTH SCIENCES EDUCATION

| COURSE  | NAME   |   | TERM             | START                   | END                     | DAYS              | TIME               |
|---------|--|---|------------------|-------------------------|-------------------------|-------------------|--------------------|
| HSC 201 | Health Care Exploration                                  | 2 | Fall             | 8/26/2024               | 11/13/2024              | MW                | 8:00 - 9:50        |
| HSC 113 | Medical Terminology                                      | 2 | Winter<br>Spring | 11/14/2024<br>2/19/2025 | 2/18/2025<br>5/15/2025  | HYBRID-WED<br>WWW | 8:00 - 9:50<br>WWW |
| PNN 147 | Nursing Essentials I<br>Lab/Clinical Days on Fridays TBA | 3 | Spring           | 2/19/2025               | 5/15/2025               | MW                | 8:00 - 9:50        |
| HSC 226 | Health Society & Aging                                   | 3 | Fall             | 8/26/2024               | 11/13/2024              | WWW               | WWW                |
| HSC 141 | Pharmaceutical Applications                              | 1 | Fall<br>Winter   | 8/26/2024<br>11/14/2024 | 11/13/2024<br>2/18/2025 | WWW<br>WWW        | WWW<br>WWW         |
| HSC 212 | Pathophysiology  | 3 | Winter<br>Spring | 11/14/2024<br>2/19/2025 | 2/18/2025<br>5/15/2025  | WWW<br>WWW        | WWW<br>WWW         |

## HEALTH SCIENCES EDUCATION – PROGRAM SPECIFIC

| COURSE                                  | NAME   |   | TERM   | START     | END        | DAYS  | TIME        |
|---|--|---|--------|-----------|------------|-------|-------------|
| <b>Physical Therapist Assistant</b>     |  |   |        |           |            |       |             |
| PTA 101                                 | Introduction to Physical Therapist Assistant | 2 | Fall   | 8/26/2024 | 11/13/2024 | T     | 8:00 - 9:40 |
| <b>Occupational Therapist Assistant</b> |  |   |        |           |            |       |             |
| OTA 106                                 | Trends in OTA                                | 3 | Fall   | 8/26/2024 | 11/13/2024 | WWW   | WWW         |
| <b>Emergency Medical Technician</b>     |  |   |        |           |            |       |             |
| EMS 160                                 | Emergency Medical Responder                  | 4 | Spring | 1/20/2025 | 5/15/2025  | MTWTH | 8:00 - 9:50 |



# ALBIA AREA CAREER ACADEMY

## AUTOMOTIVE TECHNOLOGY/DIESEL POWER TECHNOLOGY ACADEMY

Don't sit at a desk when you could be driving, racing, fixing, rebuilding, restoring, aligning, and recharging! Within the Automotive Technology portion of this Academy you will learn engine repair, automatic transmission/transaxle, brakes, electrical, and more!

The Diesel Power portion of this Academy, you will acquire skills from hands-on training in a variety of mechanical, electrical, and computer systems necessary to diagnose, repair, and maintain agricultural equipment, trucks, locomotive engines, and other types of heavy construction equipment. You will study diesel engines, transmissions, hydraulics, and so much more!

| YEAR ONE      |                                   |   |  | YEAR TWO      |   |   |  |
|---------------|-----------------------------------|---|--|---------------|---|---|--|
| <b>FALL</b>   |                                   |   |  | <b>FALL</b>   |   |   |  |
| AUT 114       | Shop Fundamentals & Minor Service | 4 |  | AUT 404       | Automotive Suspension and Steering      | 4 |  |
| <b>WINTER</b> |                                   |   |  | <b>WINTER</b> |   |   |  |
| AUT 131       | Auto Preventative Maintenance     | 2 |  | AUT 222       | Basic Automotive Drive Lines            | 2 |  |
| CRR 310       | Adapters, Tools and Measurements  | 1 |  | AUT 702       | Automotive Heating and Air Conditioning | 2 |  |
| <b>SPRING</b> |                                   |   |  | <b>SPRING</b> |   |   |  |
| AUT 502       | Auto Brake Systems                | 2 |  | AUT 155       | Automotive Engine Design and Systems    | 2 |  |
| AUT 701       | Basic Automotive Air Conditioning | 1 |  | AUT 290       | NVH and Aftermarket                     | 2 |  |

## MACHINE TECHNOLOGY ACADEMY

The need for more skilled machinists keeps growing. The world needs you more than ever! And IHCC will get you ready. Learn to read blueprints, program tooling systems on a CNC lathe or mill, master computer-aided drafting, strengthen your communication skills, and brush up on geometric tolerances. This Academy will get you prepared for an exciting career in Machining!

| YEAR ONE      |   |   |  |
|---------------|---|---|--|
| <b>FALL</b>   |   |   |  |
| MFG 121       | Machine Trade Printreading I                | 2 |  |
| MFG 209       | Machine Shop Practices                      | 3 |  |
| <b>WINTER</b> |   |   |  |
| MFG 222       | Machine Operations I ( <i>first half</i> )  | 2 |  |
| <b>SPRING</b> |   |   |  |
| MFG 131       | Machine Trade Printreading II               | 2 |  |
| MFG 222       | Machine Operations I ( <i>second half</i> ) | 2 |  |



## ALBIA AREA CAREER ACADEMY (CONTINUED)

### WELDING TECHNOLOGY ACADEMY

Welding is considered to be the principal means of fabricating and repairing all metal products. It is difficult to imagine an industry today, large or small, which does not involve some type of welding. Skilled welders often work independently and can utilize their skills anywhere in the world. Students work on projects in the lab learning to perform all types of welding processes such as GMAW, GTAW, SMAW, and Oxy-Acetylene. In this Academy, if you successfully complete both years of your coursework, you will RECEIVE your welding diploma!

| YEAR ONE      |  |   | YEAR TWO      |   |   |
|---------------|--|---|---------------|---|---|
| <b>FALL</b>   |  |   | <b>FALL</b>   |   |   |
| WEL 228       | Introduction to Welding, Safety & Health     | 1 | WEL 182       | FCAW  | 2 |
| WEL 254       | Welding Inspection and Testing Principles    | 1 | WEL 262       | Thermal Cutting Process I                               | 2 |
| WEL 274       | Shielded Metal Arc Welding I                 | 3 | WEL 275       | Shielded Metal Arc Welding II                           | 3 |
| <b>WINTER</b> |  |   | <b>WINTER</b> |   |   |
| WEL 200       | Metallurgy Fundamentals                      | 2 | WEL 211       | Production Welding Procedures                           | 4 |
| WEL 233       | Print Reading and Welding Symbol Interp.     | 3 | WEL 253       | Gas Tungsten Arc Welding for Austenitic Stainless Steel | 1 |
| WEL 251       | Gas Tungsten Arc Welding for Carbon Steel    | 2 |               |   |   |
| <b>SPRING</b> |  |   | <b>SPRING</b> |   |   |
| WEL 201       | Procedures and Qualifications                | 1 | MAT 772       | Applied Math  | 3 |
| WEL 244       | Gas Metal Arc Welding Short Circuit Transfer | 2 | WBL 110       | Employability Skills                                    | 2 |
| WEL 245       | Gas Metal Arc Welding Spray Transfer         | 2 | WEL 174       | Advanced Welding Procedures II                          | 3 |



# CARDINAL AREA WELDING ACADEMY

## WELDING TECHNOLOGY ACADEMY

Welding is considered to be the principal means of fabricating and repairing all metal products. It is difficult to imagine an industry today, large or small, which does not involve some type of welding. Skilled welders often work independently and can utilize their skills anywhere in the world. Students work on projects in the lab learning to perform all types of welding processes such as GMAW, GTAW, SMAW, and Oxy-Acetylene. In this Academy, if you successfully complete both years of your coursework, you will RECEIVE your welding diploma!

### YEAR ONE

#### FALL

|         |   |   |
|---------|---|---|
| WEL 201 | Procedures & Qualifications                 | 1 |
| WEL 228 | Intro to Welding Safety & Health of Welders | 1 |
| WEL 254 | Welding Inspection & Testing Principles     | 1 |
| WEL 274 | Shielded Metal Arc Welding                  | 3 |

#### WINTER

|         |   |   |
|---------|---|---|
| WEL 233 | Print Reading & Welding Symbol Interp.  | 3 |
| WEL 251 | Gas Tungsten Arc Welding Symbol Interp. | 2 |
| WEL 262 | Thermal Cutting Processes I             | 2 |

#### SPRING

|         |  |   |
|---------|--|---|
| MAT 772 | Applied Math                                 | 3 |
| WEL 244 | Gas Metal Arc Welding Short Circuit Transfer | 2 |
| WEL 245 | Gas Metal Arc Welding Spray Transfer         | 2 |

### YEAR TWO

#### FALL

|         |                               |   |
|---------|-------------------------------|---|
| WEL 182 | FCAW                          | 2 |
| WEL 275 | Shielded Metal Arc Welding II | 3 |

#### WINTER

|         |   |   |
|---------|---|---|
| WEL 174 | Advanced Welding Procedures II                          | 3 |
| WEL 200 | Metallurgy Fundamentals                                 | 2 |
| WEL 253 | Gas Tungsten Arc Welding for Austenitic Stainless Steel | 1 |

#### SPRING

|         |                               |   |
|---------|-------------------------------|---|
| WBL 110 | Employability Skills          | 2 |
| WEL 211 | Production Welding Procedures | 4 |



# CHARITON VALLEY CAREER ACADEMY

## CONSTRUCTION TECHNOLOGY ACADEMY

Like to build things, don't want a boring desk job? We didn't think so! Take the construction industry by storm, and build yourself a solid future with our hands-on Construction Technology Academy! You'll learn how to plan, organize, solve problems, and communicate well with others while on the work site. This curriculum will prepare you to finish your degree at IHCC and have a career in residential, commercial, industrial, or public works construction.

**Students will only need 6 hours in Construction LAB to complete the Construction Diploma.**

**The above 6 credits can be taken over the summer, for free, if you are currently in high school or as a traditional college student, over the summer after you graduate from high school.**

| YEAR ONE      |                           |  |   | YEAR TWO      |  |  |   |
|---------------|---------------------------|--|---|---------------|--|--|---|
| <b>FALL</b>   |                           |  |   | <b>FALL</b>   |  |  |   |
| CON 276       | Construction Technology 1 |  | 3 | CON 453       | Construction Lab IIB                                   |  | 3 |
| CON 450       | Construction Lab 1A       |  | 3 | CSC 105       | Computer Essentials                                    |  | 1 |
| <b>WINTER</b> |                           |  |   | <b>WINTER</b> |  |  |   |
| CON 277       | Construction Technology 2 |  | 3 | CON 454       | Construction Lab IIIA                                  |  | 3 |
| CON 451       | Construction Lab IB       |  | 3 | MAT 762       | Technical Math for Industry                            |  | 2 |
| <b>SPRING</b> |                           |  |   | <b>SPRING</b> |  |  |   |
| CON 278       | Construction Technology 3 |  | 3 | CON 455       | Construction Lab IIIB                                  |  | 3 |
| CON 452       | Construction Lab IIA      |  | 3 | ENG 105       | Composition I <b>OR</b><br>Technical Writing (ENG 111) |  | 3 |

## HEALTH CAREERS ACADEMY

Want to help people for a living but don't know where to start? Are you looking for a one-of-a-kind experience? Ready to advance your skills? The path to your future starts at IHCC! Upon successful completion of this 1 year Academy, students will have the opportunity to accrue 17 credits towards one of IHCC's 17 Health Science Programs. Note: Students are required to have a cumulative high school 2.0 GPA for admissions into this academy.

| YEAR ONE      |                            |  |   |
|---------------|----------------------------|--|---|
| <b>FALL</b>   |                            |  |   |
| HSC 113       | Medical Terminology        |  | 2 |
| HSC 201       | Health Care Exploration    |  | 2 |
| <b>WINTER</b> |                            |  |   |
| HSC 163       | Nutrition                  |  | 3 |
| PSY 111       | Introduction to Psychology |  | 3 |
| <b>SPRING</b> |                            |  |   |
| HSC 226       | Health, Society & Aging    |  | 3 |
| PNN 147       | Nursing Essentials I       |  | 3 |



# FAIRFIELD AREA CAREER ACADEMY

## HEALTH CAREERS ACADEMY

Want to help people for a living but don't know where to start? Are you looking for a one-of-a-kind experience? Ready to advance your skills? The path to your future starts at IHCC! Upon successful completion of this 2 year Academy, students will have the opportunity to accrue over 30 credits towards one of IHCC's 17 Health Science Programs. Note: Students are required to have a cumulative high school 2.0 GPA for admissions into this academy.

### YEAR ONE

#### FALL

|         |                         |   |
|---------|-------------------------|---|
| HSC 113 | Medical Terminology     | 2 |
| HSC 201 | Health Care Exploration | 2 |

#### WINTER

|         |                            |   |
|---------|----------------------------|---|
| HSC 163 | Nutrition                  | 3 |
| PSY 111 | Introduction to Psychology | 3 |

#### SPRING

|         |                         |   |
|---------|-------------------------|---|
| HSC 226 | Health, Society & Aging | 3 |
| PNN 147 | Nursing Essentials I    | 3 |

### YEAR TWO

#### FALL

|         |                              |   |
|---------|------------------------------|---|
| BIO 101 | Introduction to Biology      | 2 |
| HSC 141 | Pharmaceutical Applications  | 1 |
| WBL 154 | Health Science Job Shadowing | 1 |

#### WINTER

|         |                   |   |
|---------|-------------------|---|
| BIO 175 | Human Anatomy     | 3 |
| BIO 176 | Human Anatomy Lab | 1 |
| PNN 149 | Advanced CNA      | 3 |

#### SPRING

|         |                      |   |
|---------|----------------------|---|
| HSC 212 | Pathophysiology      | 3 |
| WBL 110 | Employability Skills | 2 |





# KEOKUK COUNTY CAREER ACADEMY

## AGRICULTURE CLASSES

Agriculture classes will be offered as Concurrent Enrollment through Sigourney High School.

## HEALTH CAREERS ACADEMY

Want to help people for a living but don't know where to start? Are you looking for a one-of-a-kind experience? Ready to advance your skills? The path to your future starts at IHCC! Upon successful completion of this 2 year Academy, students will have the opportunity to accrue over 30 credits towards one of IHCC's 17 Health Science Programs. Note: Students are required to have a cumulative high school 2.0 GPA for admissions into this academy.

| YEAR ONE      |                            |   |  | YEAR TWO      |                              |   |  |
|---------------|----------------------------|---|--|---------------|------------------------------|---|--|
| <b>FALL</b>   |                            |   |  | <b>FALL</b>   |                              |   |  |
| HSC 201       | Health Care Exploration    | 2 |  | HSC 141       | Pharmaceutical Applications  | 1 |  |
| PSY 111       | Introduction to Psychology | 3 |  | WBL 110       | Employability Skills         | 2 |  |
|               |                            |   |  | WBL 154       | Health Science Job Shadowing | 1 |  |
| <b>WINTER</b> |                            |   |  | <b>WINTER</b> |                              |   |  |
| HSC 113       | Medical Terminology        | 2 |  | BIO 101       | Introduction to Biology      | 2 |  |
| HSC 163       | Nutrition                  | 3 |  | PNN 149       | Advanced CNA                 | 3 |  |
| <b>SPRING</b> |                            |   |  | <b>SPRING</b> |                              |   |  |
| HSC 226       | Health, Society & Aging    | 3 |  | BIO 175       | Human Anatomy                | 3 |  |
| PNN 147       | Nursing Essentials I       | 3 |  | BIO 176       | Human Anatomy Lab            | 1 |  |
|               |                            |   |  | HSC 212       | Pathophysiology              | 3 |  |

## WELDING TECHNOLOGY ACADEMY

Welding is considered to be the principal means of fabricating and repairing all metal products. It is difficult to imagine an industry today, large or small, which does not involve some type of welding. Skilled welders often work independently and can utilize their skills anywhere in the world. Students work on projects in the lab learning to perform all types of welding processes such as GMAW, GTAW, SMAW, and Oxy-Acetylene. In this Academy, if you successfully complete both years of your coursework, you will RECEIVE your welding diploma!

| YEAR ONE      |  |   |  | YEAR TWO      |   |   |  |
|---------------|--|---|--|---------------|---|---|--|
| <b>FALL</b>   |  |   |  | <b>FALL</b>   |   |   |  |
| MAT 772       | Applied Math                                 | 3 |  | WEL 182       | FCAW  | 2 |  |
| WEL 228       | Intro to Welding Safety & Health of Welders  | 1 |  | WEL 275       | Shielded Metal Arc Welding II                           | 3 |  |
| WEL 274       | Shielded Metal Arc Welding                   | 3 |  |               |   |   |  |
| <b>WINTER</b> |  |   |  | <b>WINTER</b> |   |   |  |
| WEL 233       | Print Reading & Welding Symbol Interp.       | 3 |  | WEL 174       | Advanced Welding Procedures II                          | 3 |  |
| WEL 251       | Gas Tungsten Arc Welding Symbol Interp.      | 2 |  | WEL 200       | Metallurgy Fundamentals                                 | 2 |  |
| WEL 262       | Thermal Cutting Processes I                  | 2 |  | WEL 253       | Gas Tungsten Arc Welding for Austenitic Stainless Steel | 1 |  |
| <b>SPRING</b> |  |   |  | <b>SPRING</b> |   |   |  |
| WEL 201       | Procedures & Qualifications                  | 1 |  | WBL 110       | Employability Skills                                    | 2 |  |
| WEL 244       | Gas Metal Arc Welding Short Circuit Transfer | 2 |  | WEL 211       | Production Welding Procedures                           | 4 |  |
| WEL 245       | Gas Metal Arc Welding Spray Transfer         | 2 |  |               |   |   |  |
| WEL 254       | Welding Inspection & Testing Principles      | 1 |  |               |   |   |  |



# MAHASKA COUNTY CAREER & WELDING ACADEMY

## HEALTH CAREERS ACADEMY

Want to help people for a living but don't know where to start? Are you looking for a one-of-a-kind experience? Ready to advance your skills? The path to your future starts at IHCC! Upon successful completion of this 2 year Academy, students will have the opportunity to accrue over 30 credits towards one of IHCC's 17 Health Science Programs. Note: Students are required to have a cumulative high school 2.0 GPA for admissions into this academy.

| YEAR ONE      |                            |   |         | YEAR TWO                    |                              |   |  |  |
|---------------|----------------------------|---|---------|-----------------------------|------------------------------|---|--|--|
| <b>FALL</b>   |                            |   |         | <b>FALL</b>                 |                              |   |  |  |
| HSC 201       | Health Care Exploration    | 2 | HSC 141 | Pharmaceutical Applications | 1                            |   |  |  |
| PSY 111       | Introduction to Psychology | 3 | WBL 110 | Employability Skills        | 2                            |   |  |  |
|               |                            |   |         | WBL 154                     | Health Science Job Shadowing | 1 |  |  |
| <b>WINTER</b> |                            |   |         | <b>WINTER</b>               |                              |   |  |  |
| HSC 113       | Medical Terminology        | 2 | BIO 101 | Introduction to Biology     | 3                            |   |  |  |
| HSC 163       | Nutrition                  | 3 | PNN 149 | Advanced CNA                | 3                            |   |  |  |
| <b>SPRING</b> |                            |   |         | <b>SPRING</b>               |                              |   |  |  |
| HSC 226       | Health, Society & Aging    | 3 | BIO 175 | Human Anatomy               | 3                            |   |  |  |
| PNN 147       | Nursing Essentials I       | 3 | BIO 176 | Human Anatomy Lab           | 1                            |   |  |  |
|               |                            |   |         | HSC 212                     | Pathophysiology              | 3 |  |  |

## WELDING TECHNOLOGY ACADEMY

Welding is considered to be the principal means of fabricating and repairing all metal products. It is difficult to imagine an industry today, large or small, which does not involve some type of welding. Skilled welders often work independently and can utilize their skills anywhere in the world. Students work on projects in the lab learning to perform all types of welding processes such as GMAW, GTAW, SMAW, and Oxy-Acetylene. In this Academy, if you successfully complete both years of your coursework, you will RECEIVE your welding diploma!

| YEAR ONE      |   |   |         | YEAR TWO  |   |  |  |
|---------------|---|---|---------|---|---|--|--|
| <b>FALL</b>   |   |   |         | <b>FALL</b>   |   |  |  |
| WEL 228       | Intro to Welding Safety & Health of Welders   | 1 | WEL 182 | FCAW  | 2 |  |  |
| WEL 254       | Welding Inspection & Testing Principles       | 1 | WEL 275 | Shielded Metal Arc Welding II                           | 3 |  |  |
| WEL 274       | Shielded Metal Arc Welding                    | 3 |         |   |   |  |  |
| <b>WINTER</b> |   |   |         | <b>WINTER</b>   |   |  |  |
| WEL 233       | Print Reading & Welding Symbol Interpretation | 3 | WEL 174 | Advanced Welding Procedures II                          | 3 |  |  |
| WEL 251       | Gas Tungsten Arc Welding for Carbon Steel     | 2 | WEL 200 | Metallurgy Fundamentals                                 | 2 |  |  |
| WEL 262       | Thermal Cutting Processes I                   | 2 | WEL 253 | Gas Tungsten Arc Welding for Austenitic Stainless Steel | 1 |  |  |
| <b>SPRING</b> |   |   |         | <b>SPRING</b>   |   |  |  |
| MAT 772       | Applied Math                                  | 3 | WBL 110 | Employability Skills                                    | 2 |  |  |
| WEL 201       | Procedures & Qualifications                   | 1 | WEL 211 | Production Welding Procedures                           | 4 |  |  |
| WEL 244       | Gas Metal Arc Welding Short Circuit Transfer  | 2 |         |   |   |  |  |
| WEL 245       | Gas Metal Arc Welding Spray Transfer          | 2 |         |   |   |  |  |



# OTTUMWA/VAN BUREN COUNTY HIGH SCHOOL CONSTRUCTION PROGRAMS

## CONSTRUCTION TECHNOLOGY ACADEMY

Like to build things, don't want a boring desk job? We didn't think so! Take the construction industry by storm, and build yourself a solid future with our hands-on Construction Technology Academy! You'll learn how to plan, organize, solve problems, and communicate well with others while on the work site. This curriculum will prepare you to finish your degree at IHCC and have a career in residential, commercial, industrial, or public works construction.

**Students will only need 6 hours in Construction LAB to complete the Construction Diploma.**

**The above 6 credits can be taken over the summer, for free, if you are currently in high school or as a traditional college student, over the summer after you graduate from high school.**

| YEAR ONE      |                           |   |  | YEAR TWO      |  |   |  |
|---------------|---------------------------|---|--|---------------|--|---|--|
| <b>FALL</b>   |                           |   |  | <b>FALL</b>   |  |   |  |
| CON 276       | Construction Technology 1 | 3 |  | CON 453       | Construction Lab IIB                                   | 3 |  |
| CON 450       | Construction Lab 1A       | 3 |  | CSC 105       | Computer Essentials                                    | 1 |  |
| <b>WINTER</b> |                           |   |  | <b>WINTER</b> |  |   |  |
| CON 277       | Construction Technology 2 | 3 |  | CON 454       | Construction Lab IIIA                                  | 3 |  |
| CON 451       | Construction Lab IB       | 3 |  | MAT 762       | Technical Math for Industry                            | 2 |  |
| <b>SPRING</b> |                           |   |  | <b>SPRING</b> |  |   |  |
| CON 278       | Construction Technology 3 | 3 |  | CON 455       | Construction Lab IIIB                                  | 3 |  |
| CON 452       | Construction Lab IIA      | 3 |  | ENG 111       | Technical Writing <b>OR</b><br>Composition I (ENG 105) | 3 |  |



## RATHBUN AREA CAREER ACADEMY

### AGRICULTURE ACADEMY

Get some dirt under your fingernails. This Academy is about getting to know the many opportunities in Agriculture. Let's make it happen! Dig deep into a possible career within the Agricultural Sciences including Animal Science, Landscape and Turfgrass, and Precision Farming.

| YEAR ONE (PM) |                               |   |  | YEAR TWO (AM) |                            |   |  |
|---------------|-------------------------------|---|--|---------------|----------------------------|---|--|
| <b>FALL</b>   |                               |   |  | <b>FALL</b>   |                            |   |  |
| AGA 154       | Fundamentals of Soil Science  | 3 |  | AGH 221       | Principles of Horticulture | 3 |  |
| AGS 113       | Survey of the Animal Industry | 3 |  | AGS 319       | Animal Nutrition           | 3 |  |
| <b>WINTER</b> |                               |   |  | <b>WINTER</b> |                            |   |  |
| AGM 110       | Ag Machine Safety & Operation | 3 |  | AGA 450       | Issues in Sustainable Ag   | 3 |  |
| AGN 120       | Wildlife and Agriculture      | 3 |  | AGP 450       | Fundamentals of GIS        | 3 |  |
| <b>SPRING</b> |                               |   |  | <b>SPRING</b> |                            |   |  |
| AGA 114       | Principles of Agronomy        | 3 |  | AGB 235       | Intro to Ag Markets        | 3 |  |
| AGS 216       | Equine Science                | 3 |  | AGP 333       | Precision Farming Systems  | 3 |  |

### CONSTRUCTION TECHNOLOGY ACADEMY

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**Students will only need 6 hours in Construction LAB to complete the Construction Diploma.**

**The above 6 credits can be taken over the summer, for free, if you are currently in high school or as a traditional college student, over the summer after you graduate from high school.**

| YEAR ONE      |                           |   |  | YEAR TWO      |  |   |  |
|---------------|---------------------------|---|--|---------------|--|---|--|
| <b>FALL</b>   |                           |   |  | <b>FALL</b>   |  |   |  |
| CON 276       | Construction Technology 1 | 3 |  | CON 453       | Construction Lab IIB                                   | 3 |  |
| CON 450       | Construction Lab 1A       | 3 |  | CSC 105       | Computer Essentials                                    | 1 |  |
| <b>WINTER</b> |                           |   |  | <b>WINTER</b> |  |   |  |
| CON 277       | Construction Technology 2 | 3 |  | CON 454       | Construction Lab IIIA                                  | 3 |  |
| CON 451       | Construction Lab IB       | 3 |  | MAT 762       | Technical Math for Industry                            | 2 |  |
| <b>SPRING</b> |                           |   |  | <b>SPRING</b> |  |   |  |
| CON 278       | Construction Technology 3 | 3 |  | CON 455       | Construction Lab IIIB                                  | 3 |  |
| CON 452       | Construction Lab IIA      | 3 |  | ENG 105       | Composition I <b>OR</b><br>Technical Writing (ENG 111) | 3 |  |



## RATHBUN AREA CAREER ACADEMY (CONTINUED)

### HEALTH CAREERS ACADEMY

Want to help people for a living but don't know where to start? Are you looking for a one-of-a-kind experience? Ready to advance your skills? The path to your future starts at IHCC! Upon successful completion of this 2 year Academy, students will have the opportunity to accrue over 30 credits towards one of IHCC's 17 Health Science Programs. Note: Students are required to have a cumulative high school 2.0 GPA for admissions into this academy.

#### YEAR ONE

##### FALL

|         |                         |   |
|---------|-------------------------|---|
| HSC 113 | Medical Terminology     | 2 |
| HSC 201 | Health Care Exploration | 2 |

##### WINTER

|         |                     |   |
|---------|---------------------|---|
| HSC 163 | Nutrition           | 3 |
| PSY 111 | Intro to Psychology | 3 |

##### SPRING

|         |                         |   |
|---------|-------------------------|---|
| HSC 226 | Health, Society & Aging | 3 |
| PNN 147 | Nursing Essentials I    | 3 |

#### YEAR TWO

##### FALL

|         |                              |   |
|---------|------------------------------|---|
| BIO 101 | Introduction to Biology      | 2 |
| HSC 141 | Pharmaceutical Applications  | 1 |
| WBL 154 | Health Science Job Shadowing | 1 |

##### WINTER

|         |                   |   |
|---------|-------------------|---|
| BIO 175 | Human Anatomy     | 3 |
| BIO 176 | Human Anatomy Lab | 1 |
| PNN 149 | Advanced CNA      | 3 |

##### SPRING

|         |                      |   |
|---------|----------------------|---|
| HSC 212 | Pathophysiology      | 3 |
| WBL 110 | Employability Skills | 1 |

### INDUSTRIAL MAINTENANCE ACADEMY

Maintaining equipment is one of the most important jobs at a company! Get ready to get your hands-on experience and learn how to figure out issues and fix machines that use electricity, hydraulics, pneumatics, and computer-controlled motor circuits.

#### YEAR ONE

##### FALL

|         |                             |   |
|---------|-----------------------------|---|
| ELT 151 | Industrial Electricity      | 3 |
| MAT 762 | Technical Math for Industry | 2 |

##### WINTER

|         |                          |   |
|---------|--------------------------|---|
| ELE 196 | Motor Control Principles | 4 |
|---------|--------------------------|---|

##### SPRING

|         |               |   |
|---------|---------------|---|
| IND 204 | Fluid Power I | 4 |
|---------|---------------|---|

#### YEAR TWO

##### FALL

|         |                |   |
|---------|----------------|---|
| IND 134 | Print Reading  | 2 |
| IND 205 | Fluid Power II | 4 |

##### WINTER

|         |                       |   |
|---------|-----------------------|---|
| ELT 225 | Introduction to PLC's | 4 |
| WBL 110 | Employability Skills  | 2 |

##### SPRING

|         |                          |   |
|---------|--------------------------|---|
| CSC 110 | Introduction to Computer | 3 |
| IND 200 | Mechanical Drives I      | 2 |
| WBL 150 | Job Shadowing            | 1 |

**AWARD: INDUSTRIAL MAINTENANCE DIPLOMA**



## **RATHBUN AREA CAREER ACADEMY (CONTINUED)**

### **WELDING TECHNOLOGY ACADEMY**

Welding is considered to be the principal means of fabricating and repairing all metal products. It is difficult to imagine an industry today, large or small, which does not involve some type of welding. Skilled welders often work independently and can utilize their skills anywhere in the world. Students work on projects in the lab learning to perform all types of welding processes such as GMAW, GTAW, SMAW, and Oxy-Acetylene. In this Academy, if you successfully complete both years of your coursework, you will RECEIVE your welding diploma!

#### **YEAR ONE**

##### **FALL**

|         |   |   |
|---------|---|---|
| WEL 228 | Intro to Welding Safety & Health of Welders | 1 |
| WEL 254 | Welding Inspection & Testing Principles     | 1 |
| WEL 274 | Shielded Metal Arc Welding                  | 3 |
| WEL 201 | Procedures & Qualifications                 | 1 |

##### **WINTER**

|         |   |   |
|---------|---|---|
| WEL 233 | Print Reading & Welding Symbol Interpretation | 3 |
| WEL 251 | Gas Tungsten Arc Welding for Carbon Steel     | 2 |
| WEL 262 | Thermal Cutting Processes I                   | 2 |

##### **SPRING**

|         |  |   |
|---------|--|---|
| MAT 772 | Applied Math                                 | 3 |
| WEL 244 | Gas Metal Arc Welding Short Circuit Transfer | 2 |
| WEL 245 | Gas Metal Arc Welding Spray Transfer         | 2 |



## ADMINISTRATIVE SUPPORT SPECIALIST

Are you ready to be in an office organizing files, greeting customers, and supporting other employees by taking care of such things as data entry and correspondence, messages, and scheduling? Then the Administrative Support Specialist Academy is for you! After completing this academy, you will receive an Administrative Support Specialist Diploma. These courses also account for the first year of the Business Office Specialist program at IHCC if you wish to continue and complete an A.A.S. degree!

| YEAR ONE |         |                                    |         |      |             |
|----------|---------|------------------------------------|---------|------|-------------|
| TERM     | CLASS   | NAME                               | CREDITS | DAYS | TIME        |
| FALL     | ADM 133 | Business Math and Calculators      | 3       | MW   | 8:00 - 9:50 |
|          | ACC 111 | Introduction to Accounting         | 3       | TTH  | 8:00 - 9:50 |
|          | ADM 108 | Keyboarding Skill Development      | 1       | WWW  | WWW         |
| WINTER   | BCA 134 | Word Processing                    | 3       | MW   | 8:00 - 9:50 |
|          | CSC 110 | Introduction to Computers          | 3       | WWW  | WWW         |
| SPRING   | BCA 142 | Spreadsheets                       | 3       | MW   | 8:00 - 9:50 |
|          | ACC 311 | Computer Accounting                | 3       | TTH  | 8:00 - 9:50 |
| YEAR TWO |         |                                    |         |      |             |
| TERM     | CLASS   | NAME                               | CREDITS | DAYS | TIME        |
| FALL     | ADM 162 | Office Procedures                  | 3       | MW   | 8:00 - 9:50 |
|          | ENG 105 | Composition I                      | 3       | WWW  | WWW         |
| WINTER   | ACC 161 | Payroll Accounting                 | 3       | MW   | 8:00 - 9:50 |
|          | ADM 159 | Proofreading & Editing             | 3       | TTH  | 8:00 - 9:50 |
|          | SPC 101 | Fundamentals of Oral Communication | 3       | WWW  | WWW         |
| SPRING   | ADM 123 | Document Formatting                | 3       | TTH  | 8:00 - 9:50 |
|          | BCA 178 | Presentation Software              | 3       | WWW  | WWW         |
|          | WBL 110 | Employability Skills               | 2       | WWW  | WWW         |



## AUTOMOTIVE TECHNOLOGY

Like to work with your hands? We do too. Don't sit at a desk when you could be driving, racing, fixing, rebuilding, restoring, aligning, and recharging! Join our program today and make your next customer's experience Life. Changing!

| YEAR ONE |         |   |         |       |               |
|----------|---------|---|---------|-------|---------------|
| TERM     | CLASS   | NAME  | CREDITS | DAYS  | TIME          |
| FALL     | AUT 114 | Shop Fund & Minor Service                                   | 4       | MTWTH | 8:00 - 9:50   |
|          | CRR 310 | Adapters, Tools & Measurements <i>(1st six weeks)</i>       | 1       | MTWTH | 10:00 - 10:50 |
|          | AUT 701 | Basic Auto Air Conditioning <i>(2nd six weeks)</i>          | 1       | MTWTH | 10:00 - 10:50 |
| WINTER   | AUT 404 | Automotive Suspension and Steering                          | 4       | MTWTH | 8:00 - 9:50   |
|          | AUT 290 | NVH and Aftermarket   | 2       | MTWTH | 10:00 - 10:50 |
| SPRING   | AUT 131 | Auto Preventative Maintenance                               | 3       | MTWTH | 8:00 - 8:50   |
|          | AUT 502 | Automotive Brake Systems                                    | 2       | MTWTH | 9:00 - 9:50   |
| YEAR TWO |         |   |         |       |               |
| TERM     | CLASS   | NAME  | CREDITS | DAYS  | TIME          |
| FALL     | AUT 204 | Auto Tranmissions and Transaxles                            | 4       | MTWTH | 8:00 - 9:50   |
|          | AUT 218 | Auto Transmissions and Transaxles Service <i>(Optional)</i> | 5       | MTWTH | 10:00 - 11:50 |
| WINTER   | AUT 155 | Automotive Engine Design and Systems                        | 2       | MW    | 8:00 - 9:50   |
|          | AUT 290 | NVH and Aftermarket   | 2       | MTWTH | 10:00 - 10:50 |
|          | SPC 101 | Fundamentals of Oral Communication                          | 3       | TTH   | 8:00 - 9:50   |
| SPRING   | MAT 772 | Applied Math  | 3       | MTWTH | 9:00 - 9:50   |





# AVIATION

**Want to take your education to new heights? Then explore our Aviation Academy at Indian Hills Community College! This program will expose you to three different Aviation fields: Avionics, Maintenance, and Professional Pilot. Come and start your path to a high-flying career today!**

| YEAR ONE |         |   |         |       |               |
|----------|---------|---|---------|-------|---------------|
| TERM     | CLASS   | NAME  | CREDITS | DAYS  | TIME          |
| FALL     | AVM 107 | Weight and Balance  | 1       | MW    | 7:30 - 9:00   |
|          | AVM 111 | Ground Operations and Servicing                             | 1       | TTH   | 7:30 - 9:00   |
|          | AVI 150 | Aerodynamics  | 3       | MTWTH | 9:10 - 10:00  |
| WINTER   | AVM 173 | Fluid Lines and Corrosion Control                           | 3       | MTWTH | 7:30 - 9:00   |
|          | AVM 200 | Avionics System I   | 3       | MTWTH | 9:00 - 10:30  |
| SPRING   | AVM 202 | Avionics Systems II   | 3       | MTWTH | 8:00 - 9:30   |
|          | AVI 190 | VFR Communications  | 2       | MTWTH | 10:00 - 10:50 |
| YEAR TWO |         |   |         |       |               |
| TERM     | CLASS   | NAME  | CREDITS | DAYS  | TIME          |
| FALL     | AVI 127 | Engine Systems Theory                                       | 3       | MTWTH | 8:00 - 8:50   |
|          | AVM 104 | Regulations and Publications                                | 2       | MTWTH | 9:00 - 9:50   |
|          | AVM 170 | Aircraft Drawings   | 2       | MTWTH | 10:00 - 10:50 |
| WINTER   | AVI 220 | Aviation Meteorology  | 3       | MTWTH | 7:45 - 8:35   |
|          | AVM 103 | Aircraft Materials and Processes                            | 2       | MTWTH | 8:45 - 9:50   |
|          | AVM 119 | Fundamentals of Physics <i>(1st six weeks)</i>              | 1       | MTWTH | 10:00 - 11:05 |
|          | AVI 129 | Employment Prep for Aviation Careers <i>(2nd six weeks)</i> | 1       | MTWTH | 10:00 - 11:05 |
| SPRING   | AVI 135 | Private Basic Ground  | 3       | MTWTH | 8:00 - 8:50   |
|          | AVM 109 | Basic Electricity   | 4       | MTWTH | 9:00 - 10:50  |



## BUSINESS TRANSFER

The Business Transfer Academy offers students the opportunity to dive into courses within our Associate of Arts Degree in Business. Our business program is designed to give you the skills and experience to take the industry by storm in a wide variety of careers and transfer your credits to a four-year college to continue your education. Successful completion of the Business Transfer Academy will give you all of the business courses required to enter into the College of Business at Iowa State University, University of Iowa, or University of Northern Iowa.

Classes can be face-to-face or through LVL (Zoom).

| YEAR ONE |         |   |         |                   |                           |
|----------|---------|---|---------|-------------------|---------------------------|
| TERM     | CLASS   | NAME  | CREDITS | DAYS              | TIME                      |
| FALL     | BUS 102 | Introduction to Business                                | 3       | MW                | 8:00 - 9:50               |
|          | ECN 120 | Macroeconomics  | 3       | TTH               | 8:00 - 9:50               |
| WINTER   | CSC 110 | Introduction to Computers                               | 3       | MW                | 8:00 - 9:50               |
|          | BUS 185 | Business Law 1  | 3       | TTH               | 8:00 - 9:50               |
| SPRING   | ECN 130 | Principles of Microeconomics                            | 3       | TTH               | 8:00 - 9:50               |
|          | MGT 101 | Principles of Management                                | 3       | WWW               | WWW                       |
| YEAR TWO |         |   |         |                   |                           |
| TERM     | CLASS   | NAME  | CREDITS | DAYS              | TIME                      |
| FALL     | ACC 152 | Financial Accounting                                    | 4       | MW                | 8:00 - 9:50               |
|          | MKT 110 | Principles of Marketing                                 | 3       | TTH               | 8:00 - 9:50               |
| WINTER   | ACC 156 | Managerial Accounting                                   | 4       | MW                | 8:00 - 9:50               |
|          | PHI 105 | Intro to Ethics <b>OR</b> Intro to Philosophy (PHI 101) | 3       | WWW <b>OR</b> TTH | WWW <b>OR</b> 8:00 - 9:50 |
| SPRING   | MAT 156 | Statistics  | 3       | MW                | 8:00 - 9:50               |
|          | CSC 116 | Information Computing                                   | 3       | WWW               | WWW                       |



## COMPUTER ACCOUNTING

Do you love working with numbers and balancing your checkbook? The Computer Accounting Academy may be for you! After completing this academy, you will receive a Diploma in Computer Accounting, which will prepare you to be a bookkeeper! These courses will also transfer into the Accounting Assistant and Accounting Specialist programs at IHCC if you wish to continue on!

| YEAR ONE |         |                                     |         |      |             |
|----------|---------|-------------------------------------|---------|------|-------------|
| TERM     | CLASS   | NAME                                | CREDITS | DAYS | TIME        |
| FALL     | ADM 133 | Business Math and Calculators       | 3       | MW   | 8:00 - 9:50 |
|          | ACC 111 | Introduction to Accounting          | 3       | TTH  | 8:00 - 9:50 |
|          | ADM 108 | Keyboarding Skill Development       | 1       | WWW  | WWW         |
| WINTER   | BCA 134 | Word Processing                     | 3       | MW   | 8:00 - 9:50 |
|          | CSC 110 | Introduction to Computers           | 3       | WWW  | WWW         |
| SPRING   | BCA 142 | Spreadsheets                        | 3       | MW   | 8:00 - 9:50 |
|          | ACC 311 | Computer Accounting                 | 3       | TTH  | 8:00 - 9:50 |
| YEAR TWO |         |                                     |         |      |             |
| TERM     | CLASS   | NAME                                | CREDITS | DAYS | TIME        |
| FALL     | ACC 152 | Financial Accounting                | 4       | MW   | 8:00 - 9:50 |
|          | ENG 105 | Composition I                       | 3       | WWW  | WWW         |
| WINTER   | ACC 161 | Payroll Accounting                  | 3       | MW   | 8:00 - 9:50 |
|          | ACC 150 | Financial Reports and Presentations | 2       | TTH  | 8:00 - 9:50 |
| SPRING   | ECN 130 | Principles of Microeconomics        | 3       | TTH  | 8:00 - 9:50 |
|          | WBL 110 | Employability Skill                 | 2       | WWW  | WWW         |



## CONSTRUCTION TECHNOLOGY

Like to build things, don't want a boring desk job? We didn't think so! Take the construction industry by storm, and build yourself a solid future with our hands-on Construction Technology Academy! You'll learn how to plan, organize, solve problems, and communicate well with others while on the work site. This curriculum will prepare you to finish your degree at IHCC and have a career in residential, commercial, industrial, or public works construction.

Students will only need 6 hours in Construction LAB to complete the Construction Diploma. The above 6 credits can be taken over the summer, for free, if you are currently in high school or as a traditional college student, over the summer after you graduate from high school.

| YEAR ONE |         |   |         |      |      |
|----------|---------|---|---------|------|------|
| TERM     | CLASS   | NAME  | CREDITS | DAYS | TIME |
| FALL     | CON 276 | Construction Technology 1                           | 3       |      |      |
|          | CON 450 | Construction Lab 1A                                 | 3       |      |      |
| WINTER   | CON 277 | Construction Technology 2                           | 3       |      |      |
|          | CON 451 | Construction Lab IB                                 | 3       |      |      |
| SPRING   | CON 278 | Construction Technology 3                           | 3       |      |      |
|          | CON 452 | Construction Lab IIA                                | 3       |      |      |
| YEAR TWO |         |   |         |      |      |
| TERM     | CLASS   | NAME  | CREDITS | DAYS | TIME |
| FALL     | CON 453 | Construction Lab IIB                                | 3       |      |      |
|          | CSC 105 | Computer Essentials                                 | 1       |      |      |
| WINTER   | CON 454 | Construction Lab IIIA                               | 3       |      |      |
|          | MAT 762 | Technical Math for Industry                         | 2       |      |      |
| SPRING   | CON 455 | Construction Lab IIIB                               | 3       |      |      |
|          | ENG 111 | Technical Writing <b>OR</b> Composition I (ENG 105) | 3       |      |      |



# COMPUTER SOFTWARE DEVELOPMENT

**Design applications with a purpose! Change solutions one line of code at a time!  
Let's create something Life. Changing!**

**Classes can be face-to-face or through LVL (Zoom).**

| YEAR ONE |         |                                    |         |       |             |
|----------|---------|------------------------------------|---------|-------|-------------|
| TERM     | CLASS   | NAME                               | CREDITS | DAYS  | TIME        |
| FALL     | BCA 185 | Beginning Webpage Development      | 3       | MTWTH | 9:00 - 9:50 |
| WINTER   | CIS 351 | Introduction to Database Concepts  | 3       | MTWTH | 8:00 - 8:50 |
|          | CIS 134 | Web Design                         | 3       | WWW   | WWW         |
| SPRING   | CIS 121 | Intro to Programming Logic         | 3       | MTWTH | 8:00 - 9:50 |
| YEAR TWO |         |                                    |         |       |             |
| TERM     | CLASS   | NAME                               | CREDITS | DAYS  | TIME        |
| FALL     | CIS 598 | Python Programming                 | 3       | MTWTH | 8:00 - 8:50 |
|          | CIS 279 | Introduction to Mobile Development | 3       | MTWTH | 9:00 - 9:50 |
| WINTER   | CIS 402 | Cobol                              | 3       | MTWTH | 8:00 - 9:50 |
| SPRING   | CIS 198 | JavaScript                         | 3       | MTWTH | 8:00 - 8:50 |



## CRIMINAL JUSTICE

**Do you want to make the world a safer place? Have you ever thought about being a police officer? Sign up for the Criminal Justice Discovery Academy! This Academy gives students the opportunity to explore careers in the area of public safety. Learn the basics and ethics of criminal justice - dive into procedures, investigations, laws and much more!**

**Classes will be face-to-face only at the IHCC Ottumwa Campus (unless specified as online).**

| YEAR ONE |         |                                   |         |                  |                           |  |
|----------|---------|-----------------------------------|---------|------------------|---------------------------|--|
| TERM     | CLASS   | NAME                              | CREDITS | DAYS             | TIME                      |  |
| FALL     | CRJ 100 | Intro to Criminal Justice         | 3       | MW               | 8:00 - 9:50               |  |
|          | SOC 110 | Intro to Sociology                | 3       | WWW <b>OR</b> MW | WWW <b>OR</b> 1:00 - 2:50 |  |
| WINTER   | CRJ 101 | Ethics in Criminal Justice        | 3       | MW               | 8:00 - 9:50               |  |
|          | CRJ 301 | Introduction to Homeland Security | 3       | TTH              | 8:00 - 9:50               |  |
| SPRING   | CRJ 141 | Criminal Investigation            | 3       | MW               | 8:00 - 9:50               |  |
|          | CRJ 130 | Criminal Law                      | 3       | TTH              | 8:00 - 9:50               |  |



**INDIANHILLS**  
COMMUNITY COLLEGE

*Life. Changing.*

# CYBERSECURITY AND SYSTEMS ADMINISTRATION

**A journey of a thousand miles begins with a single step. Take the first step to your Life. Changing. career by becoming a graduate of the Computer Networks and Security Program at Indian Hills.**

| YEAR ONE |         |  |         |       |             |
|----------|---------|--|---------|-------|-------------|
| TERM     | CLASS   | NAME   | CREDITS | DAYS  | TIME        |
| FALL     | NET 166 | Applied Computer Security  | 3       | MTWTH | 8:00 - 8:50 |
| WINTER   | NCC 200 | Networking I: Networking Fundamentals                              | 3       | MTWTH | 8:00 - 9:50 |
| SPRING   | NCC 212 | Scripting Fundamentals<br>Lecture (8:00 - 8:50), Lab (9:00 - 9:50) | 3       | MTWTH | 8:00 - 9:50 |

It is the policy of Indian Hills Community College not to discriminate in its programs, activities, or employment on the basis of race, color, national origin, sex, disability, age, sexual orientation, gender identity, creed, religion, and actual or potential family, parental or marital status.

If you have questions or complaints related to compliance with this policy, please contact Associate Dean, Student Development, 525 Grandview Ave, Ottumwa, IA 52501, (641) 683-5155, [equity@indianhills.edu](mailto:equity@indianhills.edu) (students, faculty and staff); Executive Dean, Centerville Campus and Learning Services, (641) 683-5174, [learningservicesequity@indianhills.edu](mailto:learningservicesequity@indianhills.edu) (students with disabilities); or the Director of the Office for Civil Rights U.S. Department of Education, John C. Kluczynski Federal Building, 230 S. Dearborn Street, 37th Floor, Chicago, IL 60604-7204, phone number (312) 730-1560, fax (312) 730- 1576, [ocr.chicago@ed.gov](mailto:ocr.chicago@ed.gov).



**INDIANHILLS**  
COMMUNITY COLLEGE

*Life. Changing.*

## DIESEL TECHNOLOGY

If you eat it, wear it, play with it, or drive it, odds are it was delivered by a diesel! But diesel is more than just trucks; it's the driving force behind today's Life. Changing. technology! Put a driving force behind your career today, by joining the Diesel Technology Program at Indian Hills!

| YEAR ONE |         |  |         |       |             |
|----------|---------|--|---------|-------|-------------|
| TERM     | CLASS   | NAME   | CREDITS | DAYS  | TIME        |
| FALL     | DSL 325 | Introduction to Diesel   | 2       | MTWTH | 8:00 - 8:50 |
|          | DSL 105 | Fundamentals of Shop Management ( <i>1st six weeks</i> )               | 1       | MTWTH | 9:00 - 9:50 |
|          | CRR 310 | Adapters, Tools & Measurements ( <i>2nd six weeks</i> )                | 1       | MTWTH | 9:00 - 9:50 |
| WINTER   | DSL 602 | Principles of Hydraulics   | 2       | MTWTH | 8:00 - 8:50 |
|          | AUT 222 | Basic Automotive Drive Lines   | 2       | MTWTH | 9:00 - 9:50 |
| SPRING   | DSL 341 | Overhaul of Diesel Engines<br>Lecture (8:00 - 8:50), Lab (9:00 - 9:50) | 5       | MTWTH | 8:00 - 9:50 |

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## EDUCATION

The Education Academy offers senior students the opportunity to complete a field experience component, which puts them in real time classrooms. Students are able to complete the program within one year and jump into the workplace as a paraeducator, coach or to gain a head start on their Associate of Arts degree in Education.

Classes can be face-to-face or through LVL (Zoom).

| YEAR ONE |         |   |         |      |             |
|----------|---------|---|---------|------|-------------|
| TERM     | CLASS   | NAME  | CREDITS | DAYS | TIME        |
| FALL     | PSY 111 | Introduction to Psychology                      | 3       | MW   | 8:00 - 9:50 |
|          | CSC 110 | Introduction to Computers                       | 3       | TTH  | 8:00 - 9:50 |
| WINTER   | EDU 210 | Foundations of Education                        | 3       | MW   | 8:00 - 9:50 |
|          | EDU 255 | Technology in the Classroom                     | 3       | TTH  | 8:00 - 9:50 |
| SPRING   | EDU 218 | Initial Field Experience (20 hours)             | 2       | W    | 8:00 - 9:50 |
|          | EDU 253 | Behavior Management & Social Interaction Skills | 3       | TTH  | 8:00 - 9:50 |

----- Optional Courses -----

Coaching Authorization Certificate - 1 course face to face, 12 hours, rest of the course is online.  
 Heartsaver CPR/AED: Adult-Child Infant Ecard - 1 day face to face class.

Criminal Background & Finger Printing screening required (Completed by IHCC)  
 At age 18, apply for Paraeducator certificate and/or Coaching Authorization.



## ELECTRONICS CORE

The technology industry is evolving across the world. Are you ready to evolve with it? Take your stand at the frontier of Robotics/Automation Technology, Ag/Biofuels Processing, or Laser and Optics Technology and have a Life. Changing. experience at Indian Hills!

| YEAR ONE |         |                              |         |       |               |
|----------|---------|------------------------------|---------|-------|---------------|
| TERM     | CLASS   | NAME                         | CREDITS | DAYS  | TIME          |
| FALL     | ELT 373 | DC Circuit Analysis          | 4       | MTWTH | 8:00 - 9:50   |
| WINTER   | LEO 102 | Photonics Fundamentals       | 3       | MTWTH | 8:00 - 8:50   |
|          | ELT 378 | AC Circuit Analysis          | 4       | MTWTH | 9:00 - 10:50  |
| SPRING   | ELT 505 | Power Transfer Technology    | 2       | MTWTH | 8:00 - 8:50   |
|          | ELT 180 | Microcontroller Applications | 2       | MTWTH | 9:00 - 9:50   |
| YEAR TWO |         |                              |         |       |               |
| TERM     | CLASS   | NAME                         | CREDITS | DAYS  | TIME          |
| FALL     | CSC 110 | Introduction to Computers    | 3       | MW    | 8:00 - 9:50   |
|          | MAT 742 | Technical Math               | 2       | TTH   | 8:00 - 9:50   |
| WINTER   | ELT 317 | Digital Logic Circuits       | 2       | MTWTH | 8:00 - 8:50   |
|          | MFG 777 | Business Fundamentals        | 3       | MTWTH | 9:00 - 9:50   |
| SPRING   | ELT 550 | Analog Devices               | 4       | MTWTH | 10:00 - 11:50 |



## GEOSPATIAL TECHNOLOGY

In this Academy you will learn to work with, interrelate, and analyze virtually all forms of spatial data (mapping, surveying, and geography). You will learn to oversee the collection and interpretation of photographic and geographic data gathered from technological tools, such as Global Positioning Systems (GPS), Geographic Information Systems (GIS), databases, surveys, censuses, and satellite and ground-based remote sensing imagery. Locate and map out your Life. Changing. opportunity in Geospatial Technology!

| YEAR ONE |         |  |         |      |      |
|----------|---------|--|---------|------|------|
| TERM     | CLASS   | NAME   | CREDITS | DAYS | TIME |
| FALL     | GIS 100 | Introduction to Geospatial Technologies        | 3       | WWW  | WWW  |
| WINTER   | GIS 111 | Introduction to Geographic Information Systems | 3       | WWW  | WWW  |
| SPRING   | GIS 230 | GIS Applications                               | 3       | WWW  | WWW  |
| YEAR TWO |         |  |         |      |      |
| TERM     | CLASS   | NAME   | CREDITS | DAYS | TIME |
| FALL     | GIS 205 | GIS Data Acquisition and Analysis              | 3       | WWW  | WWW  |
| WINTER   | GIS 949 | Special Topics in GIS                          | 3       | WWW  | WWW  |
| SPRING   | GIS 200 | Introduction to Cartography                    | 3       | WWW  | WWW  |

**AWARD: LOCATION ANALYTICS CERTIFICATE**



## INDUSTRIAL MAINTENANCE

Maintaining equipment is one of the most important jobs at a company! Get ready to get your hands-on experience and learn how to figure out issues and fix machines that use electricity, hydraulics, pneumatics, and computer-controlled motor circuits.

### YEAR ONE

| TERM   | CLASS   | NAME                        | CREDITS | DAYS  | TIME        |
|--------|---------|-----------------------------|---------|-------|-------------|
| FALL   | MAT 762 | Technical Math for Industry | 2       | MTWTH | 8:00 - 8:50 |
|        | ELT 151 | Industrial Electricity      | 3       | MTWTH | 9:00 - 9:50 |
| WINTER | ELE 196 | Motor Control Principles    | 4       | MTWTH | 8:00 - 9:50 |
| SPRING | ELT 225 | Introduction to PLCs        | 4       | MTWTH | 8:00 - 9:50 |

### YEAR TWO

| TERM   | CLASS   | NAME                      | CREDITS | DAYS                | TIME                      |
|--------|---------|---------------------------|---------|---------------------|---------------------------|
| FALL   | CSC 110 | Introduction to Computers | 3       | MTWTH <b>OR</b> WWW | 8:00 - 8:50 <b>OR</b> WWW |
|        | IND 200 | Mechanical Drives I       | 2       | MTWTH               | 9:00 - 9:50               |
| WINTER | IND 204 | Fluid Power I             | 4       | MTWTH               | 8:00 - 9:50               |
|        | WBL 110 | Employability Skills      | 2       | MTWTH               | 10:00 - 10:50             |
| SPRING | IND 205 | Fluid Power II            | 4       | MTWTH               | 8:00 - 9:50               |
|        | IND 134 | Print Reading             | 2       | MTWTH               | 10:00 - 10:50             |

**AWARD: INDUSTRIAL MAINTENANCE DIPLOMA**



**INDIANHILLS**  
COMMUNITY COLLEGE

*Life. Changing.*

## INTERACTIVE MEDIA TECHNOLOGY

Got a love for the written word? How about an appreciation for an impeccably designed website? Then we want YOU! Online communication becomes an art form when you study Interactive Media Technology at Indian Hills!

Classes will be face-to-face at the IHCC Ottumwa Campus.

| YEAR ONE |         |                                    |         |      |             |
|----------|---------|------------------------------------|---------|------|-------------|
| TERM     | CLASS   | NAME                               | CREDITS | DAYS | TIME        |
| FALL     | GRA 950 | Introduction to Digital Media      | 3       | MW   | 8:00 - 9:50 |
|          | SMM 100 | Introduction to Social Media       | 3       | TTH  | 8:00 - 9:50 |
| WINTER   | ART 120 | 2-D Design                         | 3       | MW   | 8:00 - 9:50 |
|          | SPC 101 | Fund of Oral Communication         | 3       | TTH  | 8:00 - 9:50 |
| SPRING   | ART 150 | Digital Design 3: InDesign         | 2       | MW   | 8:00 - 9:20 |
|          | SMM 115 | Introduction to Internet Marketing | 3       | TTH  | 8:00 - 9:50 |

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If you have questions or complaints related to compliance with this policy, please contact Associate Dean, Student Development, 525 Grandview Ave, Ottumwa, IA 52501, (641) 683-5155, [equity@indianhills.edu](mailto:equity@indianhills.edu) (students, faculty and staff); Executive Dean, Centerville Campus and Learning Services, (641) 683-5174, [learningservicesequity@indianhills.edu](mailto:learningservicesequity@indianhills.edu) (students with disabilities); or the Director of the Office for Civil Rights U.S. Department of Education, John C. Kluczynski Federal Building, 230 S. Dearborn Street, 37th Floor, Chicago, IL 60604-7204, phone number (312) 730-1560, fax (312) 730-1576, [ocr.chicago@ed.gov](mailto:ocr.chicago@ed.gov).



# MACHINE TECHNOLOGY

**Machines keep the world moving forward. So you're saying machinists run the world? You bet!  
Change the world – and your life – one part or tool at a time with Machine Technology at Indian Hills!**

| YEAR ONE |         |                               |         |       |               |
|----------|---------|-------------------------------|---------|-------|---------------|
| TERM     | CLASS   | NAME                          | CREDITS | DAYS  | TIME          |
| FALL     | MFG 209 | Machine Shop Practices        | 3       | MTWTH | 8:00 - 8:50   |
|          | MFG 121 | Machine Trade Printreading I  | 2       | MTWTH | 9:00 - 9:50   |
| WINTER   | MFG 131 | Machine Trade Printreading II | 2       | WWW   | WWW           |
| SPRING   | CAD 180 | Intro to Solidworks           | 2       | MTWTH | 8:00 - 8:50   |
|          | MAT 772 | Applied Math                  | 3       | MTWTH | 9:00 - 9:50   |
| YEAR TWO |         |                               |         |       |               |
| TERM     | CLASS   | NAME                          | CREDITS | DAYS  | TIME          |
| FALL     | MFG 254 | Engine Lathe Theory           | 3       | MTWTH | 10:00 - 11:50 |
| WINTER   | MFG 292 | CNC Lathe Operator (NIMS)     | 3       | MTWTH | 8:00 - 9:50   |
| SPRING   | MFG 426 | CAM for CNC Lathe             | 4       | MTWTH | 8:00 - 9:50   |



# PHLEBOTOMY TECHNICIAN AND CLINICAL LABORATORY ASSISTANT

Needles, tubes of blood, a phlebotomy tray. Let's help doctors make a life-saving diagnosis and get you a Life. Changing. Career!

| YEAR ONE |         |  |         |        |              |
|----------|---------|--|---------|--------|--------------|
| TERM     | CLASS   | NAME   | CREDITS | DAYS   | TIME         |
| FALL     | MLT 135 | Clinical Laboratory Basics I ( <i>Hybrid</i> ) | 3       | MW     | 8:00 - 9:50  |
|          | BIO 161 | Basic Anatomy and Physiology                   | 3       | TTH    | 8:00 - 9:50  |
| WINTER   | HSC 113 | Medical Terminology                            | 2       | MW     | 8:00 - 9:20  |
|          | MLT 145 | Clinical Preparation                           | 1       | WWW    | WWW          |
|          | WBL 110 | Employability Skills                           | 1       | WWW    | WWW          |
| SPRING   | PHB 270 | Phlebotomy Clinical ( <i>120 hours</i> )       | 1       | MTWTHF | 7:00 - 10:00 |

**AWARD: PHLEBOTOMY TECHNICIAN CERTIFICATE**

| YEAR TWO |         |   |         |        |             |
|----------|---------|---|---------|--------|-------------|
| TERM     | CLASS   | NAME  | CREDITS | DAYS   | TIME        |
| FALL     | CSC 110 | Introduction to Computers                                   | 3       | MW     | 8:00 - 9:50 |
|          | SPC 101 | Fundamentals of Oral Communication                          | 3       | TTH    | 8:00 - 9:50 |
| WINTER   | MLT 136 | Clinical Laboratory Basics II ( <i>Hybrid</i> )             | 3       | TTH    | 8:00 - 9:50 |
|          | MLT 175 | CLA Practicum I ( <i>40 hours - Last 2 weeks of term</i> )  | 1       | MTWTHF | 7:00 - 9:50 |
|          | HSC 212 | Pathophysiology ( <i>Hybrid</i> )                           | 3       | WWW    | WWW         |
| SPRING   | HSC 227 | CLA Administrative Procedures ( <i>Hybrid</i> )             | 2       | MW     | 8:00 - 9:20 |
|          | MLT 137 | Clinical Laboratory Basics III ( <i>Hybrid</i> )            | 3       | TTH    | 8:00 - 9:50 |
|          | MLT 176 | CLA Practicum II ( <i>40 hours - Last 2 weeks of term</i> ) | 1       | MTWTHF | 7:00 - 9:50 |
|          | MLT 295 | Topics in Clinical Laboratory Sciences ( <i>Hybrid</i> )    | 1       | WWW    | WWW         |

**AWARD: CLINICAL LABORATORY ASSISTANT DIPLOMA**

\*Recommended General Electives: Intro to Psychology, Math Elective, or General Chemistry lead to the Medical Laboratory Technician AAS degree.



## SOCIAL SCIENCES

Have you ever wondered about the unconscious? What are dreams? How can someone finish different tasks and not know they did the task? What exactly is a psychopath? What are their characteristics and what are they capable of? The Social Sciences Academy answers all of these questions and many more! By completing this Academy, you will have the foundational coursework to excel and earn a degree in the areas of psychology, sociology, social work, and human services.

| YEAR ONE |         |                                     |         |      |      |
|----------|---------|-------------------------------------|---------|------|------|
| TERM     | CLASS   | NAME                                | CREDITS | DAYS | TIME |
| FALL     | CSC 110 | Introduction to Computers           | 3       | WWW  | WWW  |
|          | PSY 112 | Psychology of Human Relations       | 3       | WWW  | WWW  |
| WINTER   | ENG 105 | Composition I                       | 3       | WWW  | WWW  |
|          | PSY 111 | Introduction of Psychology          | 3       | WWW  | WWW  |
| SPRING   | ENG 106 | Composition II                      | 3       | WWW  | WWW  |
|          | PSY 121 | Developmental Psychology            | 3       | WWW  | WWW  |
| YEAR TWO |         |                                     |         |      |      |
| TERM     | CLASS   | NAME                                | CREDITS | DAYS | TIME |
| FALL     | SPC 101 | Fundamentals of Oral Communications | 3       | WWW  | WWW  |
|          | SOC 110 | Introduction to Sociology           | 3       | WWW  | WWW  |
| WINTER   | PSY 251 | Social Psychology                   | 3       | WWW  | WWW  |
|          | SOC 160 | Introduction to Social Work         | 3       | WWW  | WWW  |
| SPRING   | LIT 184 | Young Adult Literature              | 3       | WWW  | WWW  |
|          | SOC 115 | Social Problems                     | 3       | WWW  | WWW  |





# WELDING TECHNOLOGY

Some things need heat to spark a solution. So strap on your mask and let's make some welding magic! Send sparks flying with Welding Technology at Indian Hills!

## YEAR ONE

| TERM   | CLASS   | NAME                                      | CREDITS | DAYS  | TIME          |
|--------|---------|---|---------|-------|---------------|
| FALL   | WEL 228 | Introduction to Welding, Safety & Health  | 1       | MTWTH | 12:30 - 12:50 |
|        | WEL 201 | Procedures and Qualifications             | 1       | MTWTH | 12:50 - 1:10  |
|        | WEL 254 | Welding Inspection and Testing Principles | 1       | MTWTH | 1:10 - 1:30   |
|        | WEL 274 | Shielded Metal Arc Welding I              | 3       | MTWTH | 1:30 - 3:00   |
| WINTER | WEL 233 | Print Reading and Welding Symbol          | 3       | MTWTH | 12:20 - 1:00  |
|        | WEL 245 | Gas Metal Arc Welding Spray Transfer      | 2       | MTWTH | 1:15 - 2:05   |
|        | WEL 244 | Gas Metal Arc Welding Short Circuit       | 2       | MTWTH | 2:10 - 3:00   |
| SPRING | WBL 110 | Employability Skills                      | 2       | MW    | 12:30 - 1:20  |
|        | WEL 200 | Metallurgy Fundamentals                   | 2       | TTH   | 12:30 - 1:20  |
|        | WEL 182 | FCAW                                      | 2       | MTWTH | 1:20 - 2:10   |
|        | WEL 251 | Gas Tungsten Arc Welding for Carbon Steel | 2       | MTWTH | 2:10 - 3:00   |

## YEAR TWO

| TERM   | CLASS   | NAME  | CREDITS | DAYS  | TIME         |
|--------|---------|---|---------|-------|--------------|
| FALL   | WEL 262 | Thermal Cutting Processes I                             | 2       | MTWTH | 12:30 - 1:20 |
|        | WEL 174 | Advanced Welding Procedures II                          | 3       | MTWTH | 1:30 - 3:00  |
| WINTER | WEL 211 | Production Welding Procedures                           | 4       | MTWTH | 12:20 - 2:15 |
|        | WEL 253 | Gas Tungsten Arc Welding for Austenitic Stainless Steel | 1       | MTWTH | 2:15 - 3:00  |
| SPRING | MAT 772 | Applied Math  | 3       | MTWTH | 12:30 - 1:20 |
|        | WEL 275 | Shielded Metal Arc Welding II                           | 3       | MTWTH | 1:30 - 3:00  |

**AWARD: WELDING TECHNICIAN DIPLOMA**