AGRICULTURAL/BIOFUELS PROCESS TECHNOLOGY

Fermentation processes take nutrients and energy from renewable sources to create a number of products. We’ll teach you to use your acquired knowledge in a number of disciplines to help fuel people around the globe.

YEAR ONE

<table>
<thead>
<tr>
<th>TERM</th>
<th>CLASS</th>
<th>NAME</th>
<th>CREDITS</th>
<th>DAYS</th>
<th>TIME</th>
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<tbody>
<tr>
<td>FALL</td>
<td>BPT 145</td>
<td>Applied Microbiology</td>
<td>4</td>
<td>MTWTH</td>
<td>08:00 - 09:50</td>
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<td>BPT 157</td>
<td>Good Manufacturing Practices</td>
<td>3</td>
<td>MTWTH</td>
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<td>WINTER</td>
<td>BPT 132</td>
<td>Bacterial/Fungal Fermentation</td>
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<td>ENG 111</td>
<td>Technical Writing</td>
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<td>SPRING</td>
<td>BPT 147</td>
<td>Anaerobic Digestion</td>
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<td>Workplace Communications</td>
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<td>MTWTH</td>
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YEAR TWO

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<th>TIME</th>
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<td>ELT 373</td>
<td>DC Circuit Analysis</td>
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<td>WINTER</td>
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<td>Approved Culture Course</td>
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<td>BPT 121</td>
<td>Biodiesel Production</td>
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<td>11:00 - 11:50</td>
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<td>BPT 932</td>
<td>Internship</td>
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It is the policy of Indian Hills Community College not to discriminate on the basis of race, color, national origin, sex, disability, age (employment), sexual orientation, gender identity, creed, religion, and actual or potential parental, family, or marital status in its programs, activities, or employment practices as required by the Iowa Code §§292C.6 and 28.9, Titles VI and VII of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d and 2000e), the Equal Pay Act of 1963 (29 U.S.C. § 206, et seq.), Title IX (Educational Amendments, 20 U.S.C. §§ 1681 et seq.), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), and Title II of the Americans with Disabilities Act (42 U.S.C. § 12101, et seq.).

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DID YOU KNOW THAT IF YOU'RE TAKING INDIAN HILLS CLASSES WHILE STILL IN HIGH SCHOOL, YOU ALREADY QUALIFY FOR A $1,000 SCHOLARSHIP TO INDIAN HILLS
CHECK OUT THE MINIMUM QUALIFICATIONS AND APPLY TODAY: WWW.INDIANHILLS.EDU/SCHOLARSHIPS
### Agricultural/Biofuels Process Technology Curriculum

**Associate of Applied Science Degree** | **Total Credits: 74** | **Location: Eddyville and Ottumwa Campuses** | **Start Term: Fall Term**

#### TERM I
**TOTAL CREDITS: 11**
- **BPT 104** Introduction to Biotechnology: 3
- **BPT 204** Biomanufacturing Systems: 1
- **ELT 373** DC Circuit Analysis: 4
- **IND 110** CPR, First Aid and Safety: 1
- **MAT 742** Technical Math: 2

#### TERM II
**TOTAL CREDITS: 13**
- **ELT 180** Microcontroller Applications: 2
- **ELT 375** AC Fundamentals: 2
- **ELT 736** Instrumentation and Control: 2
- **ENG 111** Technical Writing: 3
- **IND 200** Mechanical Drives I: 2
- **MAT 777** Applied Algebra and Trigonometry: 3

#### TERM III
**TOTAL CREDITS: 10**
- **BPT 272** Process Control Practicum: 3
- **ELT 550** Analog Devices: 4
- **XXX XXX** Approved Mathematical Reasoning Course: 3

#### TERM IV
**TOTAL CREDITS: 4**
- **BPT 932** Internship: 4

#### TERM V
**TOTAL CREDITS: 14**
- **BPT 127** Industrial Chemistry: 2
- **BPT 135** Applied Biochemistry: 2
- **BPT 145** Applied Microbiology: 4
- **BPT 157** Good Manufacturing Practices: 3
- **CSC 110** Introduction to Computers: 3

#### TERM VI
**TOTAL CREDITS: 12**
- **BPT 121** Biodiesel Production: 2
- **BPT 122** Ethanol Fermentation: 2
- **BPT 132** Bacterial/Fungal Fermentation: 2
- **CHM 121** Introduction to General Chemistry: 3
- **IND 142** Industrial Maintenance Pumps: 1
- **IND 162** Equipment Maintenance: 2

#### TERM VII
**TOTAL CREDITS: 9**
- **BPT 281** Bioprocess Technology Practicum: 2
- **BPT 147** Anaerobic Digestion: 2
- **PHY 705** Introduction to Physics: 2
- **XXX XXX** Approved Culture Course: 3

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2019-20 College Catalog and Student Handbook. Curriculum is subject to change.