

# ENGINEERING AND MANUFACTURING

## Associate of Science

- Associate of Science #8750 (<http://catalog.lorainccc.edu/academic-information/as>)

## Alternative Energy

- Alternative Energy Technology – Solar Technology – One-year technical certificate #6356 Not Offered 2019-2020 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/alternative-energy-technology-solar-technology-one-year-technical-certificate>)
- Alternative Energy Technology – Solar Technology – Associate Degree #6355 Not Offered 2019-2020 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/alternative-energy-technology-solar-technology-major-aas>)
- Alternative Energy Technology – Wind Turbine – Short-term technical certificate #6352 Not Offered 2019-2020 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/alternative-energy-technology-wind-turbine-short-term-technical-certificate>)
- Alternative Energy Technology – Wind Turbine – One-year general certificate #6351 Not Offered 2019-2020 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/alternative-energy-technology-wind-turbine-one-year-technical-certificate>)
- Alternative Energy Technology – Wind Turbine – Associate Degree #6350 Not Offered 2019-2020 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/alternative-energy-technology-wind-turbine-short-term-technical-certificate>)

## Automation Engineering

- Automation Engineering Technology - Maintenance Technician – Short-term technical certificate #6181 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/automation-engineering-technology-maintenance-technician-short-term-technical-certificate>)
- Automation Engineering Technologies – Systems Specialist Major – Associate Degree #6211 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/automation-engineering-technology-systems-specialist-aas>)
- Automation Engineering Technology – Maintenance/Repair – Associate Degree #6210 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/automation-engineering-technology-maintenance-repair-aas>)
- Microelectronic Manufacturing -Bachelor of Applied Science #9601 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/microelectronic-manufacturing-bas>)

## Computer Security

- Computer and Digital Forensics - One-Year technical certificate #6121 (<http://catalog.lorainccc.edu/academic-programs/engineering->

[business-information-technologies/computer-engineering-technology-computer-digital-forensics-one-year-technical-certificate](http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/computer-engineering-technology-computer-digital-forensics-one-year-technical-certificate))

- Computer Engineering Technology - Business Forensics Investigations Major Associate Degree #6220 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/computer-engineering-technology-business-forensics-investigations-major-aas>)
- Computer Engineering Technology - Business Forensics Investigations - One-Year technical certificate #6218 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/computer-engineering-technology-business-forensics-investigations-major-one-year-technical-certificate>)
- Computer Engineering Technology- Computer and Digital Forensics Major - Associate degree #6120 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/computer-engineering-technology-computer-digital-forensics-major-aas>)
- Computer Games and Simulation Design – Associate Degree #8300 (<http://catalog.lorainccc.edu/academic-programs/multidisciplinary/computer-games-simulation-design-aas>)
- Computer Information Systems - Information Security for Business - Short-term technical certificate #6623 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/computer-information-systems-information-security-business-short-term-technical-certificate>)
- Computer Information Systems - Network Security Foundations - Short-term technical certificate #6609 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/computer-information-systems-network-security-foundations-short-term-technical-certificate>)
- Cyber and Information Security - Associate of applied science #6470 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/cyber-and-information-security-aas>)
- Digital Forensics for Law Enforcement - One-year technical certificate #6119 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/digital-forensics-law-enforcement-one-year-technical-certificate>)

## Construction

- Construction Technology – Construction and Renovation Tradesman – Short-term technical certificate #6175 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/construction-technology-construction-renovation-tradesman-short-term-technical-certificate>)
- Construction Technology – Residential Building and Renovation – One-year technical certificate #6176 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/construction-technology-residential-building-renovation-one-year-technical-certificate>)
- Construction Technology – Construction Engineering – Associate Degree #6170 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/construction-technology-construction-engineering-major-aas>)
- Construction Technology – Construction Management – Associate Degree #6171 (<http://catalog.lorainccc.edu/academic-programs/>

engineering-business-information-technologies/construction-technology-construction-management-major-aas)

## Digital Fabrication

- Digital Fabrication Technology - Digital Fabrication Major - Associate of applied science #6167 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/digital-fabrication-technologies-digital-fabrication-major-aas>)

## Electric Power Utility

- Electric Power Utility Technology – Overhead Line Technology – Associate Degree #6320 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/electric-power-utility-technology-overhead-line-technology-aas>)
- Electric Power Utility Technology – Substation Technology Major – Associate Degree #6321 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/electric-power-utility-technology-substation-technology-major-aas>)

## Electronic Engineering

- Electronic Engineering Technology – Applied Electronics – One-year technical certificate #6309 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/electronic-engineering-technology-applied-electronics-one-year-technical-certificate>)
- Electronic Engineering Technology – Applied Electronics – Associate Degree #6310 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/electronic-engineering-technology-applied-electronics-aas>)
- Microelectronic Manufacturing -Bachelor of Applied Science #9601 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/microelectronic-manufacturing-bas>)

## Engineering Technology

- Engineering Technology – General Technician – Short-term technical certificate #6050 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/engineering-technology-general-technician-short-term-technical-certificate>)

## Industrial Safety

- Industrial Safety Technology/Technician - Associate of technical studies #6720 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/industrial-safety-technology-technician-associate-of-technical-studies>)
- Industrial Safety Technology/Technician – Professional Safety – One year technical certificate #6710 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/industrial-safety-technology-technician-professional-safety-one-year-technical-certificate>)
- Industrial Safety Technology/Technician – General Safety – Short-term technical certificate #6700 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/industrial-safety-technology-technician-general-safety-short-term-technical-certificate>)

## Manufacturing Engineering

- Manufacturing Engineering Technology – Computer Aided Machining Manufacturing Process – Short-term technical certificate #6012 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-computer-aided-machining-manufacturing-processes-short-term-technical-certificate>)
- Manufacturing Engineering Technology – Computer-Aided Machining Operator – One-year technical certificate #6112 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-computer-aided-machining-operator-one-year-technical-certificate>)
- Manufacturing Engineering Technology – Computer Aided Machining – Associate Degree #6213 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-computer-aided-machining-aas>)
- Manufacturing Engineering Technology – Industrial Electrical Technician – Short-term technical certificate #6015 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-industrial-electrical-technician-short-term-technical-certificate>)
- Manufacturing Engineering Technology – Industrial Electrical Technician – One-year technical certificate #6115 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-industrial-electrical-technician-one-year-technical-certificate>)
- Manufacturing Engineering Technology – Industrial Electrical Technician – Associate Degree #6215 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-industrial-electrical-technician-aas>)
- Manufacturing Engineering Technology – Industrial Mechanical Technician – Short-term technical certificate #6016 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-industrial-mechanical-technician-short-term-technical-certificate>)
- Manufacturing Engineering Technology - Industrial Mechanical Technician – One-year technical certificate #6116 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-industrial-mechanical-technician-one-year-technical-certificate>)
- Manufacturing Engineering Technology - Industrial Mechanical Technician – Associate Degree #6216 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-industrial-mechanical-technician-aas>)
- Manufacturing Engineering Technology – Computer Aided Design – Short-term technical certificate #6002 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-computer-aided-design-short-term-technical-certificate>)
- Manufacturing Engineering Technology – Computer Aided Design Operator – One-year technical certificate #6111 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-computer-aided-design-operator-one-year-technical-certificate>)
- Manufacturing Engineering Technology – Mechanical Design – Associate of applied science degree #6212 (<http://>)

catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-mechanical-design-aa)

- Manufacturing Engineering Technology – Quality Technician – One-year technical certificate #6007 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-quality-control-one-year-technical-certificate>)
- Manufacturing Engineering Technology - Right Skills Now - Short-term technical certificate #6031 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/manufacturing-engineering-technology-right-skills-now-short-term-technical-certificate>)
- Microelectronic Manufacturing -Bachelor of Applied Science #9601 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/microelectronic-manufacturing-bas>)

- Welding Technology – Associate Degree #6410 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/welding-technology-aas>)

## Mechatronics

- Mechatronics Technology: Micro Electromechanical Systems (MEMS) – Short-term technical certificate #6500 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/mechatronics-technology-micro-electromechanical-systems-short-term-technical-certificate>)
- Mechatronics Technology: Micro Electromechanical Systems (MEMS) – One-year technical certificate #6510 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/mechatronics-technology-micro-electromechanical-systems-one-year-technical-certificate>)
- Mechatronics Technology: Micro Electromechanical Systems (MEMS) – Associate Degree #6520 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/mechatronics-technology-micro-electromechanical-systems-aas>)
- Microelectronic Manufacturing -Bachelor of Applied Science #9601 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/microelectronic-manufacturing-bas>)

## Welding

- Welding Technology – Advanced Welding – Short-term technical certificate #6011 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/welding-technology-advanced-welding-short-term-technical-certificate>)
- Welding Technology – Basic Welding – Short-term technical certificate #6006 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/welding-technology-basic-welding-short-term-technical-certificate>)
- Welding Technology – Short-term technical certificate #6009 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/welding-technology-welding-short-term-technical-certificate>)
- Welding Technology – Welding Visual Inspection –Short-term technical certificate #6013 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/welding-technology-welding-and-visual-inspection>)
- Welding Operator – One-year technical certificate #6008 (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/welding-technology-welding-operator-one-year-technical-certificate>)