

Skilled Trades Program Options On Campus

Automotive Technology



Diesel Technology



Building Trades



Heating & Air Conditioning



Industrial Automation
& Robotics



Industrial Mechanical
Technician



Tool & Die Technology



Welding Technology



Agriculture Technology



Partners in Education



NIACC does not discriminate in employment or education. See <http://www.niacc.edu/about/non-discrimination-statement/> for additional information.

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Industrial Academy—Rockwell



**“Your Connection to
Education and Opportunity”**



**NIACC Career Link
Opportunities**

NORTH IOWA AREA COMMUNITY COLLEGE



What is Career Link?

- Receive high school and college credit at the same time.
- Develop higher order thinking and problem-solving skills
- Allows students to get an idea of what college coursework is like
- Ease of transition from high school to college
- Provide opportunity to complete general education courses required by most colleges and universities
- Enter the workforce with marketable skills



Why consider Career Link?

- Develop career focus
- Ease transition to college
- Get hands-on training in area of interest
- Enter the workforce with marketable skills
- Get a head-start on college and your career

There is no cost to the student, except for transportation.

Industrial Technology Academy

Academy Classes

Electronic Concepts

ELT—115 (3 s.h.)

Electronic Concepts is an introductory survey of electricity and electronics suitable for students interested in pursuing a career in such technical fields as electronics, automotive, HVAC, and other fields that require knowledge of basic electrical/electronic concepts. Topics include safety, shop and lab practices, motors and controls, direct and alternating current, and semiconductor and digital electronics. Course work consists of problem solving, computer-assisted instruction, computer simulation, and hands-on exercises with industrial grade equipment.

Ag and Industry Welding

WEL—335 (2 s.h.)

This is a basic arc/oxy-fuel welding and cutting course. The students will perform introductory skills in SMAW, GTAW, and GMAW welding, oxy-acetylene welding, and oxy-fuel cutting. The student learns safety procedures relating to welding subjects and general shop safety.

Employability Skills

WEL—335 (2 s.h.)

Corequisite: WBL - 150 Job Shadowing is recommended. This course is designed to assist students in developing the skills necessary to obtain employment, and to learn and practice the skills and attitudes required for job success. Students will practice resume writing, job application completion, and interviewing techniques. Additionally, students will practice work-place problem solving strategies, and demonstrate skills required to work in a diverse environment.

Maintenance Shop Operations

ELT—745 (3 s.h.)

This course provides an introduction to shop equipment generally found in the industrial maintenance environment. Students will receive instruction and practice with metal saws, drills, grinders, elementary welding and cutting, thread repair, anchors and fasteners. This course covers the study of mechanical prints to identify parts in assembly and repair situations, and the use of catalogs to find and order repair parts, study of bearings and seals, applications, and failure analysis.

Introduction to Technical Computing & CAD

ELT—190 (3 s.h.)

Introduction to Technical Computing and Computer-Aided Drafting is designed to familiarize the student with computer basics relating to occupations in the industrial/technical area. This includes fundamentals of CAD—layers, icons, pull-down menus, drawing and editing commands, object snaps, screen menu, filters, text, sketch, basic construction of 2D mechanical drawings. Students will become familiar with the use of computers in the generation of mechanical drawings utilizing lettering, basic geometric construction, and sketching fundamentals.

Cabinetry and Millwork

Con—305 (3 s.h.)

This competency-based course prepares students for entry-level positions in the cabinetmaking and millwork, furniture-making and woodworking industries.

