

SKILLED AND TECHNICAL SCIENCES EDUCATION

Field endorsement to teach grades 6-12

As an industrial technology teacher, you'll be showing the next generation how to build things with their hands. You'll help them understand the concepts of communication, manufacturing, construction, and transportation systems. You'll show them how to use the latest technology and software for production purposes. If these things sound like your own interests, consider a Skilled and Technical Sciences Education degree at Wayne State College. You'll get to use your passion for hands-on education and contribute to the next generation of builders and engineers. This education program balances technical training with organization management and teaching methods courses that will prepare you to share your knowledge and skills with secondary students.

If you choose the Skilled and Technical Sciences Education field endorsement, you are not required to choose any other endorsements to receive your B.A. or B.S.

fast facts

Hours:

48 hours for endorsement
32 hours in education core classes
30 hours in general education

At least 120 hours are required for graduation from Wayne State College.

Degrees offered: B.S.

Departments: Technology and Applied Science; Educational Foundations and Leadership

Schools: Business and Technology; Education and Counseling

Clinical practice: One semester of student teaching required

Popular pairings: Coaching (7-12)

focus on results

Skills Learned

- Teaching and instruction
- Leadership and organization
- Communication and presentation
- Drafting and design
- Manufacturing processes and systems
- Construction technology and electronics
- Welding theory and fabrication
- Cabinetry and millwork
- Professional code of conduct

Possible Careers

- Industrial technology teacher
- Manufacturing technologies instructor
- Academic advisor
- Industrial technology trainer
- Vocational instructor
- Production manager
- Construction manager
- Residential drafter
- Superintendent

Types of Employers

- Middle schools
- High schools
- Business schools
- Colleges and universities
- Corporations
- Manufacturing companies
- Vocational schools
- Training centers
- Construction companies

outside the classroom

Activities / Opportunities

- Visit construction and manufacturing facilities
- Peer tutoring and mentoring
- Study Abroad
- Service-Learning
- Northeast Nebraska Teacher Academy (NENTA)

Clubs / Organizations

- Drafting and Design Club
- Epsilon Pi Tau
- NSEA Aspiring Educators
- SkillsUSA

Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.



Sample program of study

2023-24 Academic Year

Every effort is made to ensure this information is current, but please be aware that some content may have changed. There is no substitute for developing a careful course registration plan in consultation with your advisor. The class sequence listed is suggested only. The final decision rests with the student and academic advisor.

Freshman

CNA 100 Principles of Human Communication.....	3
EDU 150 Introduction to Professional Education.....	3
ENG 102 Composition Skills (General Studies CAT 1).....	3
ITE 111 Introduction to Safety (recommended elective).....	3
ITE 114 Intro to Applied Engineering and Technology.....	3
ITE 214 Residential Drawing.....	3
ITE 219 Mechanical and Engineering Drafting.....	3
ITE 202 Construction Systems.....	3
General Studies	

Sophomore

EDU 245 Preparing for Level 2: Teacher Candidacy.....	0
EDU 250 Human Development and Cognition.....	3
EDU 275 PK-12 Instructional Design.....	3
ITE 205 Intro to Manufacturing Technology.....	3
ITE 210 Intro to Energy, Power, and Transportation Systems.....	3
ITE 308 Construction Technology.....	3
ITE 330 Welding Theory and Fabrication.....	3
General Studies	

Advancement to Level 2: Acceptance to Teacher Education Candidacy required before taking any 300/400 level EDU/SPD courses.

Junior

CED 417 Principles of Career Education.....	3
CSC 478 Robotics.....	3
EDU 409 ITE Content Methods and Assessment.....	3
EDU 414 Content Area Clinical.....	1
EDU 245 Preparing for Level 2: Teacher Candidacy.....	0
ITE 222 Fundamentals of CNC Machining.....	3
ITE 300 Small Engines.....	3
ITE 307 Cabinetmaking and Millwork.....	3
ITE 326 Technology Lab Design and Management.....	3
SPD 302 Inclusion and Co-Teaching in General Education.....	3
General Studies	

Senior

CED 423 Coordinating Techniques.....	3
EDU 310 Reading, Writing, and Assessment in the Content Area.....	2
ITE 403 Electronics and Control Systems.....	3
SPD 436 Classroom Management Through Social-Emotional Learning 7-12.....	3
Elective.....	9

Advancement to Level 3: Clinical Practice

EDU 456 Clinical Practice and Seminar for the Secondary School.....	12
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Skilled and Technical Sciences - Skilled Specific Education (9-12) Supplemental Endorsement

(available only to those completing the field endorsement in Skilled and Technical Sciences Education (6-12))

To qualify to teach in a skilled and technical sciences education program in the secondary schools of Nebraska, a teacher must complete the B.A. or B.S. degree with an endorsement in Skilled and Technical Sciences and also complete the following requirements:

- Satisfactory completion of 12 credit hours of coursework in one of the following career areas: architecture and construction; energy and engineering; manufacturing; and transportation, distribution, and logistics.
- Work experience of 1,000 verified hours of paid employment in the industry in which the specific career area coursework is taken or 500 hours of verified paid employment in the industry in which the specific career area coursework is taken plus a valid nationally recognized trade certification/licensure in the career area in which the specific career area coursework is taken.
- The Skilled and Technical Sciences Education endorsement also requires an applicant to earn or qualify for a Work-Based Learning endorsement, which includes CED 423 Coordinating Techniques (3).

skilled and technical sciences faculty



Visit www.wsc.edu/tas to learn more about the Department of Technology and Applied Science.

Jeff Allen, Ed.D.
Dave Hix, MSE
Al Lindsay, MSE
Dan Mitchell, MSE
Grant Schrick, M.S.



Revised on: 8/4/23