2026-27 Academic Year

SKILLED AND TECHNICAL SCIENCES EDUCATION (MSE)

Curriculum and Instruction - Instructional Leadership

Enhance your teaching, leadership, and instructional skills for skilled and technical sciences education. In the STS Education focus area of the Curriculum and Instruction master's degree program, you will explore instructional theory, applied research, and curriculum design to support effective teaching in lab-based and hands-on learning environments. The Skilled and Technical Sciences Education specialization emphasizes the philosophy and organization of technical education programs, including materials, facilities, equipment, and instructional resources, while examining current trends, emerging technologies, and developments shaping technology education today. This program is intended for educators who are already certified in skilled and technical sciences and want to deepen their expertise while earning a master's degree.

fast facts

Degree offered: Master of Science in Education (MSE) in Curriculum and Instruction – Instructional Leadership /Skilled and Technical Sciences Education

Credit hours: 36

Cost per credit hour: $404 total *(includes $261.90 tuition + $142.10 fees)*

Delivery method: Online

Departments: Business and Economics; Educational Foundations and Leadership

Schools: Education and Behavioral Sciences; Technology and Applied Science

focus on results

Skills Learned

- Curriculum design for skilled and technical education programs
- Instructional theory and teaching strategies
- Assessment of learning outcomes
- Job and task analysis for technical programs
- Automated manufacturing and robotics
- Emerging technologies in technical education
- CAD, modeling, and prototype development

Possible Careers

- Skilled and technical sciences teacher
- Career and technical education (CTE) instructor
- Technical education coordinator
- Workforce education specialist
- Adult education specialist
- Vocational training manager

Types of Employers

- Public and private schools
- Career and technical education (CTE) programs
- Community and technical colleges
- Workforce development and training organizations
- Adult education training programs
- Professional development agencies

recognized for excellence

Our graduate programs are nationally recognized for their excellence, exceptional value, and flexible learning options — consistently earning top distinctions for affordability and quality.

Most Affordable Online Master's Degrees in the U.S.
Wayne State College was ranked among the Top 10 most affordable online master's degree programs in the nation by *Intelligent.com* for 2025.

College of Distinction
Wayne State College has been recognized as a College of Distinction, an honor that highlights institutions for engaged students, great teaching, a vibrant campus community, and successful outcomes.

Program courses

2026-27 Academic Year

The following courses are required for the program of study described on this sheet. Every effort is made to ensure this information is current, but please be aware that some content may have changed. To develop a plan for registering and taking these courses, please consult the current academic catalog and your advisor.

Program requirements: 36 credit hours

Core courses (12 credit hours)

EDU 603 Introduction to Educational Research and Design 3
EDU 621 Education Program Orientation 0
EDU 652 Instructional Theory and Practice 3
EDU 658 Fundamentals of Curriculum Development PK-16 3
Select one of the following 3

- EDU 674 History and Philosophy of Education (3)
- MAT 645 Current Trends in Mathematics Curriculum and Teaching (3)

Skilled and Technical Sciences Education focus area (18 credit hours)

ITE 605 Organization of Technology Education Programs 3
ITE 650 Developments in Technology Education 3
ITE Electives 12

Additional content requirements (0-12 credit hours)

Take enough electives to have a minimum of 36 hours for this program. Additional courses to fulfill the Curriculum and Instruction MSE (Skilled and Technical Sciences Education emphasis) degree requirements include:
EDU 600 Literacy through Literature for Children (3)
EDU 604 Language Arts in the Elementary and Middle School (3)
EDU 626 Advanced Educational Psychology (3)
EDU 627 Current Issues and Trends in Education (3)
EDU 629 Science of Reading-Early Childhood (2)
EDU 630 Science of Reading I (3)
EDU 631 Science of Reading II (3)
EDU 645 The Principal as Instructional Leader (3)
EDU 655 School Law: Constitutional Aspects and Cases (3)
EDU 657 School Organizational and Community Relations (3)
EDU 666 Supervision of Instruction for Elementary and Secondary (3)
EDU 682 Developing and Integrating Technology in the Classroom (3)
EDU 693 Final Research (2-3)
EDU 699 Thesis (0-6)
Any special education graduate level course by advisement

questions? contact:

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