

# Technology Education

## Introduction

Technology Education is a Bachelor of Science degree program consisting of general, professional and technical course work that leads to teaching certification in all 50 states. Students who complete the B.S. in Technology Education may be eligible for credits relative to Project Lead the Way, a K-12 pre-engineering teaching initiative. Although the program is designed to lead to an education degree, graduates have also found challenging career opportunities in fields related to communication, construction, manufacturing and transportation. More than 32 credits of technical requirements provide students with hands-on experiences using computers, robots, electronics, and with more conventional equipment used in processing materials, transportation, construction and processing information. Course work is enriched by involvement with professional organizations and professional activities.

## General Requirements

### Bachelor of Science Degree

Total for graduation .....	128 credits
General Education .....	43-44 credits
Major Studies .....	84 credits

## Program Requirements

### General Education

43-44 credits required

#### A. Communication Skills **8 Credits**

ENGL-101 Freshman English – Composition or	
ENGL-111 Freshman English – Honors I .....	3
ENGL-102 Freshman English – Reading and Related Writing or	
ENGL-112 Freshman English – Honors II or	
ENGL-113 Freshman English – Honors Seminar I .....	3
SPCOM-100 Fundamentals of Speech .....	2

#### B. Analytic Reasoning **6 Credits**

MATH-121 Introductory College Mathematics II (or higher level).....	4
STAT-XXX Any Statistics .....	2

#### C. Health and Physical Education **2 Credits**

Courses must be from areas of health, physical education or nutrition.

#### D. Humanities and the Arts\* **9 Credits**

LIT-XXX Any Literature .....	3
XXX-XXX Any Creative/Performing Arts .....	3

Remaining course must be from areas including art history, creative arts, history, literature, music appreciation, performing arts or philosophy. \* Either HIST-210 Modern World must be taken under this category or ANTH-220 Cultural Anthropology must be taken under Category E.

#### E. Social and Behavioral Sciences \* **9 Credits**

POLS-210 American Government .....	3
PSYC-110 General Psychology .....	3

Remaining course must be from areas of anthropology, economics, geography, political science, psychology or sociology. \* See previous note under Category D.

## Teacher Education Requirements

Students proceed through a series of three benchmarks as they move toward licensure.

### Benchmark I: Acceptance into Teacher Education

Teacher education students will begin fulfilling their requirements for Benchmark I as they complete their first 40 credits. Detailed information is online at: [www.uwstout.edu/soe/students/requirements-benchl.shtml](http://www.uwstout.edu/soe/students/requirements-benchl.shtml).

- ▶ Pass the Pre-Professional Skills Test (PPST)
- ▶ Attain a 2.75 cumulative grade point average
- ▶ Pass the required teacher background check
- ▶ Earn a grade of at least 2.00 (C) in ENGL-101 and ENGL-102 or ENGL-111 and ENGL-112.
- ▶ Earn a minimum grade of 2.00 (C) in SPCOM-100 Fundamentals of Speech.
- ▶ Earn a minimum grade of 2.00 (C) in TECED-160 Introduction to Technology Education
- ▶ Complete EDUC-326 Foundations of Education
- ▶ Complete General Education Technology requirement
- ▶ Satisfactory rating on Benchmark I Portfolio Assessment rubric
- ▶ Satisfactory rating on Benchmark I Student Interview

### Benchmark II: Application for Student Teaching

Benchmark II must be completed prior to student teaching. Detailed information is online at: [www.uwstout.edu/soe/students/requirements-benchl.shtml](http://www.uwstout.edu/soe/students/requirements-benchl.shtml).

- ▶ Complete Application for Student Teaching form
- ▶ Maintain a 2.75 grade point average
- ▶ Pass Content Knowledge Exam (Praxis II)
- ▶ Receive clearance through an updated background check
- ▶ Complete a satisfactory tuberculosis (TB) test
- ▶ Receive satisfactory portfolio assessment by faculty
- ▶ Receive satisfactory rating on Benchmark II Student Interview
- ▶ Submit copies of resume to the School of Education prior to student teaching

### Benchmark III: Program Completion

Benchmark III must be completed before you can be recommended for licensure. Detailed information is online at: [www.uwstout.edu/soe/students/requirements-benchl.shtml](http://www.uwstout.edu/soe/students/requirements-benchl.shtml).

- ▶ Complete electronic portfolio and receive a basic or higher proficiency level of assessment
- ▶ Complete all program coursework
- ▶ Meet all program-specific requirements
- ▶ Student teach at two levels: Middle School and High School.
- ▶ Receive a satisfactory student teaching assessment

**F. Natural Sciences (with Lab) 8 Credits**

BIO-111 Science, Society and the Environment .....4

Choose the following PHYS courses or others at a higher level:

PHYS-211 Introduction to Physics .....3

PHYS-212 Introduction to Physics Lab ..... 1

**G. Technology 2 Credits**

**Major Studies**

84 credits required

**Professional Education 13 credits**

Grade of "C" or better required for all courses.

EDUC-303 Educational Psychology ..... 3

EDUC-326 Foundations of Education ..... 2

EDUC-336 Multiculturalism: Issues and Perspectives ..... 2

EDUC-376 Field Experience – Cross Cultural Experience ..... 1

EDUC-382 Secondary Reading and Language Development ..... 2

SPED-430 Inclusion of Students with Exceptional Needs ..... 3

**Technology Teacher Education Courses 33 credits**

Grade of "C" or better required for all courses.

STMED-160 Introduction to Technology and Science Education .....3

STMED-260 Curriculum, Methods and Assessment  
for Science and Technology Education ..... 3

STMED-XXX Pre-Student Teaching ..... 1

STMED-390 Laboratory and Classroom Management in Science and Technology ..... 3

STMED-4XX Advanced Curriculum Methods  
and Assessment for Technology Education..... 3

TECED-325 Technology for Elementary School Children ..... 2

TECED-340 Middle School Technology Education .....2

TECED-409 Student Teaching ..... 16

**The Designed World 34 credits**

AEC-172 Construction Technology ..... 3

ELEC-204 Electricity/Electronics Fundamentals ..... 3

GCM-141 Graphic Communications ..... 3

INMGMT-314 Industrial Enterprise Practicum ..... 3

MFGT-110 Materials and Manufacturing Processes .....3

MFGT-204 Polymer Processes ..... 3

RD-205 Design for Industry ..... 3

TECED-XXX Project Lead the Way Gateway to Technology Seminar .....1

TECED-XXX Project Lead the Way  
Introduction to Engineering Design Seminar .....1

TRANS-XXX Trans and Energy..... 3

XXX-XXX Mechatronics..... 2

Take one of the following courses:

MFGT-202 Welding and Casting Processes ..... 3

MFGT-203 Machining Metal Forming Processes ..... 3

Take one of the following courses:

AEC-131 Architectural Graphics ..... 3

ENGGR-112 Principles Engineering Drawing ..... 3

**Advanced Technical Selectives 4 credits**

All Technology Education students are required to meet with their advisor to plan their Advanced Technical Selectives. The purpose of this requirement is to provide the student with an opportunity to create more depth of understanding and skill within technical areas that are likely to be part of their teaching responsibilities at the secondary level. Some courses or sequences of courses may provide a student the opportunity to seek certifications by outside accrediting bodies such as Project Lead the Way. Technical college transfers need to meet with an advisor to gain approval of technical transfer courses.

**Vocational Certification**

A student who wishes to become certifiable to teach an advanced level occupational skills course in Wisconsin must complete this degree program, a course in Principles of Career and Technical Education, and a course in Organization and Administration of Cooperative Education Programs. The student must also have a minimum of 2,000 hours of related work experience.