

Industrial / Technology Education

Introduction

Master of Science Degree This program is especially designed for individuals with undergraduate preparation in industrial arts, industrial education, technology education and related fields. However, it is also open to others interested in entering the technology education field.

The program provides opportunities for students to expand their knowledge and competence in technology education. Specifically, this program will provide students the opportunity to:

1. Understand the history, issues and philosophy of industrial/technology education.
2. Develop or expand competence in curriculum development.
3. Understand and apply learning theory to develop teaching strategies suitable for teaching in classroom and laboratory or work settings.
4. Develop effective interpersonal relationship skills.
5. Develop or expand the ability to organize, manage and maintain a technology education laboratory or work environment.
6. Design and use evaluation instruments and procedures.
7. Develop or expand competence in technical areas suitable for teaching technology education.
8. Understand and be able to use information gained from technical and educational research.

Admission

To be admitted with full status to this program, the applicant must hold a bachelor's degree in industrial arts education or technology education (or equivalent) from an accredited college and have an overall grade point average of at least 2.75. Applicants with an overall grade point average ranging from 2.5 to 2.75 may be considered for probationary admission. This assumes preparation and certification (or eligibility for certification) for teaching industrial arts or technology education.

A deficiency in these admission requirements does not preclude admission, but it may require completion of additional undergraduate work and/or increase the amount of graduate credit required to earn the degree.

Primary Evaluation Processes

The primary processes used to evaluate program and academic progress include course grades, research evaluation, certification of program completion, and the following program specific processes: program application; degree candidacy; and intent to graduate.

Requirements

Requirements for this degree include: (a) completion of at least 30 semester hours of graduate credit with an overall graduate grade point average of 3.0 or better; a minimum of 15 credits must be in courses open only to graduate students — 700 level; (b) approval for degree candidacy at the appropriate time; and (c) a course distribution as follows:

Preparation in Research

5 credits

TECED-739	Introduction to Research in Vocational/Technology Education	1
EDUC-740	Research Foundations	4

Preparation Basic to Program

14 credits

TECED-704	History/Philosophy of Technology Education	2
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Cluster 1. Foundations in Philosophy or Psychology

Select at least one of the following:

TECED-708	Issues in Technology Education	2
TECH-532	Futures of Technology	2
PSYC-730	Advanced Psychology of Learning	2

Cluster 2. Curriculum and Program Development

Select at least two of the following:

TECED-530	Implementing Technology Education	3
TECED-638	Course Construction	2
TECED-710	Curricular Innovations in Technology Education	2
VTAE-674	Adult Education	2
EDUC-750	Curriculum Theory and Practice	2-3

Cluster 3. Facilitation and Management of Learning

Select at least one of the following:

TECED-533	Technical/Vocational Planning Laboratories	2
TECED-603	Activities in Technology/Vocational Education	2
TECED-637	Organization and Management of Technical Labs	2
XXXX-XXX	Graduate level computer course	

Cluster 4. Evaluation

EDUC-742	Program Evaluation	3
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Cluster 5. Technical Research

XXXX-792	Special Project in any technology area	2-6
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Cluster 6. Research

TECED-735	Problems in Industrial/Technology Education	2
TECED-770	Thesis – Industrial/Technology Education	6

Preparation for Further Development

For students planning careers in teaching, it is recommended that their technical work (graduate and undergraduate) total at least 45 semester hours. Additional electives will be selected with approval of the graduate program director. A complete list of graduate work appropriate to this degree program is maintained by the program director.

Preparation Through Advisement Patterns

This program is designed so that at least one of a variety of advisement patterns can be developed within the framework of the industrial education degree programs. Beyond the preparation in research (7-11 credits) and preparation basic to the program (14 credits), students will choose, in consultation with their program director, an advisement pattern supporting their work-role/life-role goals and select learning experiences (course work) which will support them in such areas as industrial or technology education teacher, supervisor or administrator in elementary, middle-junior high school, senior high school, post-high school, college or university, industry or other selected areas.