

# Curriculum

## Technology Education

Master of Science:      Technology Education					
<u>Course</u>			<u>Title</u>	<u>Semester Hours</u>	
TE 501			Current Literature, Issues and Research	3	
TE 504			Laboratory Planning & Management	3	
TE 505			History & Philosophy of Tech. Ed	3	
TE 512			Administration and Funding	3	
TE 513			Instructional Aids	3	
Total Hours				15	
<b>Courses in Education</b>					
EDFL 514			Elementary Statistics	3	
EDFL 515			Methods of Educational Research	3	
EDFL 568			Curriculum Methods	3	
Total Hours				9	
			<u>Elective Courses</u>		<u>Semester Hours</u>
			TE 511	Technical Education	3
			TE 515	Career Education	3
			TE 516	Curriculum Development	3
			TE 521	Problems in Electronics	3
			TE 522	Problems in Drafting/Design	3
			TE 523	Problems in Metals	3
			TE 524	Problems in Woods	3
			<b>Total Program Hours</b>		<b>30, 33, or 36</b>

## DESCRIPTION OF COURSES

### Technology Education

**TE 500 Seminar/Workshop.** (3 Hours) Designed for offering courses on subjects which are current and important to industrial education.

**TE 501 Current Literature, Issues and Research.** (3 Hours) Identification, analysis, and discussion of the periodicals, topical books, major issues, and research in the field of industrial education.

**TE 504 Laboratory Planning and Management.** (3 Hours) Designing various industrial education laboratories and facilities. Includes attention to purpose, recommended sizes and other specifications.

**TE 505 History and Philosophy of Technology Education.** (3 Hours) Factors involved in developing the trends and leaders in industrial and vocational education. Analysis of objectives, current concepts, practices and anticipated policies in industrial education.

**TE 511 Technical Education.** (3 Hours) Emphasis on trends, community surveys, curricula, definitions, and needs of post-secondary technical education programs.

**TE 512 Administration and Funding.** (3 Hours) Identifying current legislation and funding practices concerning industrial education. Function and relationship of directors, supervisors and instructors in all fields of industrial education.

**TE 513 Instructional Aids.** (3 Hours) Studying the many instructional aids available for teaching industrial subjects. The course includes instruction in the common audio-visual aids but also making models, cutaways and other industrial teaching aids.

**TE 515 Career Education.** (3 Hours) Current career education programs and their relationship to industrial education. Emphasis on integrating career education goals in industrial education with attention to the goals of each field.

**TE 516 Curriculum Development.** (3 Hours) Principles and techniques of designing and writing industrial education curricula. Attention will be given to goals, behavioral objectives, designing programs to meet objectives and evaluating results.

**TE 521 Problems in Electricity/Electronics** (3 Hours) Opportunity to study problems related to the area of electricity/electronics. Problems based on needs of students with approval of the advisor and the Dean of the School.

**TE 522 Problems in Drafting.** (3 Hours) Opportunity to study problems related to the area of drafting. Problems based on needs of students with approval of the Dean of the School and his advisor.

**TE 523 Problems in Metals.** (3 Hours) Opportunity to study problems related to the area of metals. Problems based on needs of students with approval of the Dean of the School and his advisor.

**TE 524 Problems in Woodworking.** (3 Hours) Opportunity to study problems related to the area of woodworking. Problems based on needs of students with approval of the Dean of the School and his advisor.

**TE 581W Residential Plumbing.** (3 Hours) Residential Plumbing is designed to acquaint the student with the fundamentals of basic residential and commercial plumbing. Much of the class time will be given to hands-on activities. Graduate students in residual plumbing are required to do a research project in air-conditioning and refrigeration.

**TE 590 Thesis.** (3 Hours) The candidate selects an appropriate topic with approval of adviser and his committee.

**TE 599 Independent Research.** (1-3 Hours) Opportunities for studying special problems and doing research in the major area. Developed and defined in consultation with the professor.

**TE 600 Seminar in Industrial Education.** (3 Hours) Seminar in the various fields of industrial and technical education.

**TE 601 Selection and Organization of Subject Matter.** (3 Hours) Analysis and selection of materials for junior and senior high school, and also, adult industrial technical education.

**TE 602 Evaluation of Programs of Industrial and Technical Education.** (3 Hours) Evaluation principles and practices in the specialized areas of industrial arts, technical and industrial education.

**TE 603 Research in Industrial Education.** (3 Hours) Rationale for and methods of research in education. Emphasis is given to the identification of researchable problems and interpretation of research studies in industrial education.

**TE 621 Coordination in Occupational Training and Placement Program.** (3 Hours) Analysis of objectives and scope of trade and industrial cooperative education program, apprenticeship, and general education work experiences.

**TE 622 Developing Occupational Curricula in Two-Year Colleges.** (3 Hours) Approaches to occupational curriculum development and course construction in junior colleges. For prospective teachers and administrative personnel.

**TE 688 Internship.** (variable credit) Supervised graduate internship and externship in various areas of industrial education.

**TE 699 Reading and Independent Study.** (variable credit) Study on an individual or group basis in industrial education.