

TED 280/Introduction to Teaching Technology Education **1 course unit**
(with clinical hours)
(annually-fall)

The course is an initial professional experience for technology teacher education candidates. Technology Education (the study of the designed world) as a subject is a dynamic new teaching field reflecting the need for students to better understand their technological world through a design-based learning environment. New “Standards for Technological Literacy: Content for the Study of Technology” were published in 2000. The National Science Foundation (NSF), the American Association for the Advancement of Science (AAAS), and most recently the Technology for All Americans (TfAA) project have recognized Technology Education as a new field of study and as an important element of school reform. This introduction will include observations of classroom activities and school administrative functions, teaching small groups of students, studying about selecting content for instruction and historical developments in the field. Student membership in ITEA and TEANJ is required.

TED 380/Junior Professional Experience in Technology Education **1 course unit**
(with clinical hours)
(annually-spring)

Prerequisites: TED 280, junior status, 2.5 GPA

This course is a systematic professional experience designed to develop knowledge and skills necessary for teaching Technology Education in secondary schools. Experiences in the schools will include formal observation of teaching, planning for teaching, modes of instruction, presenting lessons, teacher-pupil interaction analysis and, planning, management and control of a Technology Education classroom/laboratory. The weekly seminars will address these and other related issues including defining the role of and performing as a professional educator. Continued membership in ITEA and TEANJ is required.

TED 391/Independent Study in Technology Education **1 course unit**
(fall and spring)

Prerequisites: Permission of instructor and department chair

TED 391 is restricted to advanced students wishing to pursue a special area of interest. The topic will be developed in consultation with a faculty adviser.

TED 460/Integrated M/S/T for Child/Adolescent Learner **1 course unit**
(annually-spring)

Prerequisites: TST 161, ETE 271

This course is an introduction to research and contemporary issues concerning the national focus on technological literacy. The course will deal with concepts of design-based inquiry, history, principles and processes of technology including engineering and the impact of technological activity on the individual, society and the environment. The setting for the study of technological literacy and design-based inquiry will focus on initiating technological literacy starting at the elementary school level. The Children Designing and Engineering™ project serves as the model for the course (CD&E™ was a NSF funded project, [see designed world learning website](#) for more information)

TED 480/Content and Methods in Technology Education **1 course unit**
(annually-fall)

Prerequisite: TED 380

This course encompasses a general overview of curriculum and methodology in technology education. The course will emphasize development of instructional programs and materials, methodology, evaluation and facilities organization, and management in technology education

based on the Standards for Technological Literacy: Content for the Study of Technology (ITEA, 2000). TED 480 also includes a Red Cross First Aid course. Continued membership in ITEA and TEANJ is required

TED 481/Seminar in Technology Education **1 course unit**
(annually-fall)

Co-requisite: TED 490

The course includes planning for and analysis of student teacher's role in school and community; assistance in preparing for postgraduate activities; and individual and group assignments to strengthen student teacher's preparation. This course runs concurrently with Student Teaching. Continued membership in ITEA and TEANJ is required.

TED 490/Student Teaching in Technology Education **2 course units**
(field experience)

(annually-fall)

Prerequisites: TED 380, 2.75 GPA

Co-requisites: TED 480, TED 481

Student teaching during the senior year is carried out under direct supervision of public or private school teachers and a college supervisor. Experience includes observation, participation, and responsible teaching within the school along with familiarization with both the school management system and community makeup.

TED 492/Facilities Design and Management **1 course unit**
(annually-spring)

Prerequisite: ETE 261

The course involves the design of technological facilities, selecting and specifying equipment, and planning for the management of that facility. Safety and working with students in a materials/tool/equipment environment is a key component of the course (New Jersey requires technology education certification for any teacher working with students in a materials laboratory setting). Using real-world design constraints from a selected school district, students design a facility to support a technological/pre-engineering studies program.