TED 280/Introduction to Teaching Technology Education/Pre-Engineering   1 course unit
(with clinical hours)
(annually-fall)
Prerequisite: Sophomore standing
The course is an initial professional experience for technology teacher education candidates. Technology Education/Pre-Engineering (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/Pre-Engineering 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 ITEEA and NJTEA is required.

TED 380/Junior Professional Experience in Technology
Education/Pre-Engineering   1 course unit
(with clinical hours)
(annually-spring)
Prerequisites: TED 280, Junior standing, 2.5 GPA
This course is a systematic professional experience designed to develop knowledge and skills necessary for teaching Technology Education/Pre-Engineering 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/Pre-Engineering 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 ITEEA and NJTEA is required.

TED 391/Independent Study in Technology
Education/Pre-Engineering variable   various course units
(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 STEM for Child/Adolescent Learner   1 course unit
(fall and spring)
Prerequisites: ETE 131 or MAT 127, 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.

TED 480/Content and Methods in Technology Education/Pre-Engineering   1 course unit
(annually-fall)
Co-requisite: TED 481, TED 490
Students will receive a general overview of curricula, methodologies, and pedagogies in technology/pre-engineering education in this course, with particular emphasis on the development of instructional programs and materials, assessment, facilities organization, and management in the Technology Education/Pre-Engineering classroom and lab. Instruction is grounded in the Standards for Technological Literacy: Content for the Study of Technology (ITEEA, 2000). This

course runs concurrently with TED 481 and 490. Student membership in ITEEA and NJTEA is required.

TED 481/Seminar in Technology Education/Pre-Engineering **1 course unit**
(annually-fall)
Co-requisite: TED 480, TED 490
Prerequisite: TED 380
Course topics include planning for and analysis of the student teacher's role in school and community environments; assistance in preparing for postgraduate employment; and individual and group assignments to support participation in TED 490, the student teaching practicum. This course runs concurrently with TED 480 and 490. Student membership in ITEEA and NJTEA is required.

TED 490/Student Teaching in Technology Education/Pre-Engineering **2 course units**
(field experience)
(annually-fall)
Prerequisites: TED 380, Senior Standing, 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.