Technology Education (TED)

TED 530 Foundations for Teaching Technology (3 credit hours)
Three topics related to teaching technology at the secondary and post-secondary levels: philosophical and historical foundations; methodology and curriculum development; and current trends and issues. Emphasis is on developing critical thinking skills, research, technology skill development, and writing procedures.

Prerequisite: Graduate standing
Typically offered in Fall only

TED 532 Current Trends in Technical Graphics Education (3 credit hours)
Current trends in the technology, techniques, and theories relating to technical graphics education. Discussion will center on assigned readings and student-researched presentations on topical subjects. Readings will be drawn from journals and texts, on-line databases and articles, and current news media sources.

Prerequisite: Graduate standing
Typically offered in Fall only

TED 534 Instructional Design in Technical and Technology Education (3 credit hours)
Create instructional activities for technical and technology education. Examine learning theories appropriate for technical and technology education. Explore and apply models for instructional design. Examine issues relative to electronic applications in technical and technology education classrooms.

Prerequisite: Graduate standing
Typically offered in Spring only

TED 536 Scientific and Technical Visualization: Theory and Practice (3 credit hours)
Theory and practice of scientific and technical visualization as a means of displaying scientific data and concepts using graphical methods. Both practitioner and theory driven models of communication are considered. How computer and print graphics can be used to assist individuals in the exploration of scientific and technical concepts. Particular focus on how to integrate scientific/technical graphics into the instructional settings.

Prerequisite: Graduate standing
Typically offered in Spring only

TED 538 Teaching Creative Problem Solving (3 credit hours)
Provides teachers with the opportunity to study the research associated with creativity and apply these theories to implement a creative problem solving program.

Prerequisite: Graduate standing or PB status
Typically offered in Spring only

TED 550 Developing and Implementing Technology Education (3 credit hours)
Technology Education curriculum trends, standards, design, implementation and management. Students will analyze current curricular trends and develop strategies for implementing and managing technology education programs.

Prerequisite: Graduate standing or PBS status
Typically offered in Spring only

TED 555 Laboratory Management and Safety in TED (3 credit hours)
Laboratory management, planning, and safety considerations for technology education. Analysis of recent research, environmental factors, development of a safety system, safety education, and legal implications. Use of student leaders in management of a safe learning environment. Offered by Distance Education Only

Prerequisite: Graduate standing
Typically offered in Spring only

TED 541 Internship in Technology Education (1-6 credit hours)
Faculty supervised experience in educational, industrial or governmental setting where a student analyzes activities associated with planning, implementing and evaluating instructional and/or services in technology education. This plan is developed by students and approved by supervisor.

Prerequisite: Graduate standing or PB status
Typically offered in Fall and Spring

TED 560 Practicum in TED (1-3 credit hours)
Typically offered in Summer only

TED 561 Special Topics in Technology Education (1-6 credit hours)
Individual or group of special topics in professional education. The faculty member determines the topic and mode of study after discussion with students.

Prerequisite: Graduate standing or PB status
Typically offered in Fall, Spring, and Summer

TED 562 Special Problems in Technology Education (1-6 credit hours)
Guided independent or group or current problems in technology education.

Prerequisite: Graduate standing or PB status
Typically offered in Fall, Spring, and Summer

TED 564 Internship in Technology Education (3 credit hours)
Classroom teachers will document products of learning to include: content pedagogy, student development, multiple instructional strategies, motivation and management, professional growth and community involvement.

Prerequisite: Graduate standing or PB status
Typically offered in Fall, Spring, and Summer
TED 646  Field-based Research in Technology Education  (3 credit hours)
Employ methods of field-based research to examine and improve instructional effectiveness and student achievement.
Prerequisite: Graduate standing or PBS status
Typically offered in Fall, Spring, and Summer

TED 655  Internship in Graphic Communications Education  (3 credit hours)
Mentoring during a higher education level teaching experience in the field of technical graphics with emphasis on providing help in teaching visualization, graphical sciences, and technical graphics standards.
*Course is offered as needed to 2-3 students at a time (independent study).
Prerequisite: TED 530 or EOE 751 with Consent of Instructor
Typically offered in Fall and Spring

TED 685  Master's Supervised Teaching  (1-3 credit hours)
Teaching experience under the mentorship of faculty who assist the student in planning for the teaching assignment, observe and provide feedback to the student during the teaching assignment, and evaluate the student upon completion of the assignment.
Prerequisite: Master's student
Typically offered in Fall and Spring

TED 690  Master's Examination  (1-9 credit hours)
For students in non thesis master's programs who have completed all other requirements of the degree except preparing for and taking the final master's exam.
Prerequisite: Master's student
Typically offered in Summer only

TED 692  Research Project in Technology Education  (1-6 credit hours)
A project or problem in research in education for graduate students, supervised by members of graduate faculty. The research chosen on the basis of individual students' interests and not to be part of thesis or dissertation research.
Prerequisite: ELP 732
Typically offered in Spring only

TED 693  Master's Supervised Research  (1-9 credit hours)
Instruction in research and research under the mentorship of a member of the Graduate Faculty.
Prerequisite: Master's student
Typically offered in Fall and Spring

TED 695  Master's Thesis Research  (1-9 credit hours)
Thesis research.
Typically offered in Fall, Spring, and Summer

TED 696  Summer Thesis Res  (1 credit hours)

TED 709  Seminar in Technology Education  (1-3 credit hours)
Seminar type course with topics selected for each class with attention given to broad concepts of and issues facing technology education at each level of delivery and implementation.
Prerequisite: Graduate standing or PBS status
Typically offered in Fall and Spring

TED 751  Technology Education: A Discipline  (3 credit hours)
Defines essential attributes of technology and examines the relationship between technology education and related disciplines. Analyzes the theory, models, and literature that constitute the foundation of technology education. Synthesizes relevant research and identifies areas of needed research.
Prerequisite: Graduate standing or PBS status
Typically offered in Fall only

TED 752  Curricula for Emerging Technologies  (3 credit hours)
Analyze advanced technologies and develop instructional programs for technology education curricula in secondary schools. Topics include technologies in production, transportation, and communication.
Prerequisite: Graduate standing or PBS status
Typically offered in Fall only

TED 755  Developing and Implementing Technology Education  (3 credit hours)
Technology Education curriculum trends, standards, design, implementation and management. Students will analyze current curricular trends and develop strategies for implementing and managing technology education programs.
Prerequisite: Graduate standing or PBS status
Typically offered in Spring only

TED 756  Planning of Change in TED  (3 credit hours)
Theories, research, strategies and practices needed to function as a technology education change agent; demonstrate a working knowledge of planned change in technology education; observe, assess, design and competently plan intervention strategies and apply use behavioral tools to achieve success.
Typically offered in Summer only

TED 757  Leadership Development in TED  (3 credit hours)
Research, development and practice of individual and organizational leadership in technology education. Content builds leadership knowledge, skill and practice with emphasis on student assessment and development.
Prerequisite: Graduate standing or PBS status
Typically offered in Spring only

TED 758  Teaching Creative Problem Solving  (3 credit hours)
Provides teachers with the opportunity to study the research associated with creativity and apply these theories to implement a creative problem solving program.
Prerequisite: Graduate standing or PBS status
Typically offered in Spring only

TED 801  Practicum in Technology Education  (1-6 credit hours)
Faculty supervised experience in educational, industrial or governmental setting where a student analyzes activities associated with planning, implementing and evaluating instructional and/or services in technology education. This plan is developed by student and approved by supervisor.
Prerequisite: Graduate standing or PBS status
Typically offered in Fall, Spring, and Summer
TED 810  Special Topics in Technology Education  (1-6 credit hours)
Individual or group of special topics in professional education. The faculty member determines the topic and mode of study after discussion with students.

Prerequisite: Graduate standing or PBS status
Typically offered in Fall, Spring, and Summer

TED 821  Special Problems in Technology Education  (1-6 credit hours)
Guided independent or group or current problems in technology education.

Prerequisite: Graduate standing or PBS status
Typically offered in Fall and Spring

TED 895  Doctoral Dissertation Research  (1-9 credit hours)
Dissertation research.

Prerequisite: Master's student
Typically offered in Fall, Spring, and Summer

TED 896  Summer Dissert Res  (1 credit hours)

TED 899  Doctoral Dissertation Preparation  (1-9 credit hours)
For students who have completed all credit hour, full-time enrollment, preliminary examination, and residency requirements for the doctoral degree, and are writing and defending their dissertations.

Prerequisite: Doctoral student
Typically offered in Fall, Spring, and Summer