

# TEACHER EDUCATION (TCED)

## TCED 1509 Orientation to On-Line Learning 1 s.h.

This course provides an introduction and orientation to on-line learning, while acquainting students with the platform of BB9, distance education technologies, YSU and TELS. CR/NC.

**Coreq.:** DE ECE 2629.

## TCED 2600 Becoming an Education Professional 1 s.h.

The purpose of this course is to explore professionalism and ethics as they are related to the teaching profession: displaying professionalism, making responsible and ethical decisions, developing a professional identity, becoming a member of a learning community, and investigating contemporary ethical issues in education. Collegiality, professional behavior, use of social media, interpersonal communication skills, cultural bias, respect/rapport with students and families, will be discussed; ethical and professional dilemmas will be introduced.

## TCED 2601 Diversity and Equity in the Classroom 1 s.h.

This course will examine various facets of preparing to teach in a diverse, 21st century classroom. Course participants will actively engage in understanding theories, research, case studies, and reflective practices that will assist them in developing a firm understanding about culture and its influences on teaching and learning.

**Prereq.:** Education major.

**Coreq.:** TCED 2600.

## TCED 2650 LGBTQ Issues in History and Popular Culture 3 s.h.

Explores the historical and present day representation of LGBTQ issues and individuals and their portrayal in popular culture.

**Cross-Listed:** WMST 2650.

**Gen Ed:** Domestic Diversity, Social and Personal Awareness.

## TCED 4800L Laboratory Experience for Teaching All Learners 0 s.h.

Laboratory Experience for creating effective classroom environments that are developmentally appropriate, engaging, and integrate the use of technology to positively impact learning. Peer and clinical teaching designed to meet needs of all learners.

**Coreq.:** ECIS 4801 or ECIS 4802 or ECE 3713 or ECE 3715 or ECE 3780 or ECE 4814 or TEMC 3703 or TEMC 3704 or TEMC 3705 or TEMC 3706 or SED 4800C or SED 4800E or SED 4800M or SED 4800S or SPED 4854 or SPED 5835 or SPED 5864 or SPED 5851 or SPED 5868.

## TCED 4830 Undergraduate Capstone Course for Education Majors 3 s.h.

Senior Seminar which substitutes for student teaching. This course requires a career/field component and research project. Placement is negotiated by the student with approval from course instructor.

**Prereq.:** Education major and junior standing.

**Gen Ed:** Capstone.

## TCED 5888 Topical Seminar 1-3 s.h.

Examination of issues related to the teaching of early childhood education, middle childhood education, special education, multi-age education, family and consumer vocational education, or adolescent/young adult education not covered in depth of other courses.

**Prereq.:** Admission to upper-division status in COE or admission to the School of Graduate Studies.

## TCED 5888N Topical Seminar Learning Abroad 1-3 s.h.

Examination of issues related to the teaching of early childhood education, middle childhood education, special education, multi-age education, family and consumer vocational education, or adolescent/young adult education not covered in depth of other courses. 1-3 s.h.

**Prereq.:** Admission to upper-division status in COE or admission to the School of Graduate Studies.

## TCED 5888P Topical Seminar Science Solar Cookers 1-3 s.h.

Examination of issues related to the teaching of early childhood education, middle childhood education, special education, multi-age education, family and consumer vocational education, or adolescent/young adult education not covered in depth of other courses.

**Prereq.:** Admission to upper-division status in COE or admission to the School of Graduate Studies.

## TCED 5991 Seminar in Teacher Education 1-5 s.h.

Various topics of current value in teacher education as selected by faculty. Grading is S/U.

**Prereq.:** Admission to College of Graduate Studies.

## TCED 6905 Introduction to Digital Teaching and Learning 3 s.h.

Digital teaching and learning is much more than knowing some great apps for the smart board or iPad. It is understanding a new paradigm that promotes a new pedagogy. It takes educators beyond the formal traditional classroom of lecture and paper/pencil into an interactive, student-centered environment. This course will introduce students to the paradigm of digital teaching and learning and provide the framework and foundation for change within districts and classrooms to meet 21st century learning.

## TCED 6906 Designing Curriculum for the 21st Century Learner 3 s.h.

What does curriculum in the 21st century look like? How does the thinking paradigm differ from the traditional curriculum model? This course will build on the Introduction to Digital Teaching and Learning by introducing students to models of digital teaching that transform curriculum into the 21st century digital learning. Students will explore the process of unlearning traditional teaching methods and explore the shift to personalized, entrepreneur learning.

**Prereq.:** TCED 6905.

## TCED 6907 Literacy for Digital Teaching and Learning 3 s.h.

Technology takes us out of a traditional form of literacy. Today, students are bombarded with tons of information and resources that effectively builds knowledge and skill for endless topics through the Internet. This course will explore the topic of digital literacy and support a knowledge-base that helps students in k-12 classrooms develop an ability to use digital technology to find information and critically evaluate that information's authority and relevance.

## TCED 6908 Digital Learning Environments 3 s.h.

This course will provide students with learning experiences that explore what a classroom for digital learning looks and feels like. Students will be able to understand and be able to develop a variety of digital learning environments including; flipped class-times, blended learning environments, and online, distance education.

## TCED 6910 Leadership for the 21st-Century 3 s.h.

This course will provide students with the knowledge and skills to provide leadership, developing the skills needed to become agents of change. The student will learn to lead and create classrooms, schools, and community organization where innovation, creativity, and technology is used to support learning environments that are engaging, supportive, and transformational.

## TCED 6911 Coding for Educators 3 s.h.

Participants in this course will learn computational thinking, introductory computer programming, and technology integration for content courses. Participants will design three apps from start to finish, and leave the course with an instructional segment they can then implement into their curriculum.

## TCED 6912 Gaming for Educators 3 s.h.

Participants in this course will develop instructional practices that rely on video games, and gaming techniques. Video games will be evaluated for inquiry skills, narrative potential, and content delivery. Video games are uniquely positioned to support student learning, as they serve multiple purposes and can be very engaging.

**TCED 6932 Action Research in Urban and Rural Education 3 s.h.**

This course focuses on action research as it applies to urban and rural education. Topics include reflecting to identify a problem, reviewing literature, planning and implementing interventions, data collection and analysis strategies, and sharing outcomes with others. Course may be offered onsite, online, or as a combination of both. Field experience in an appropriate educational setting is required.

**Prereq.:** Admission to School of Graduate Studies and Research.

**TCED 6933 Brain Based Teaching and Learning 3 s.h.**

This course is a critical appraisal of learning and teaching. Each learner constructs his/her brain as learning occurs. Teachers reconsider their practices in light of the science of learning research provided by education, neuroscience and socio-psychology. Course may be offered onsite, online, or as a combination of both.

**Prereq.:** Admission to School of Graduate Studies and Research.

**TCED 6936 Curriculum, Assessment, and Instruction to Improve Learning 3 s.h.**

Focus on the instructional design process from a practical perspective. Emphasis on planning the curriculum to include content analysis, learning objectives, instructional strategies, and measurement of student achievement.

**TCED 6940 Foundations of STEM Education Theory to Practice 3 s.h.**

Introduction to STEM education. Study of the history, foundation, and underlying principles of STEM education. Additional topics include: an inclusive mission engaging diversity in STEM education, STEM careers, and STEM as a part of the P-12 curriculum.

**TCED 6941 Engineering and Technology Inquiry 3 s.h.**

Introduction to principles of engineering and technology. Inquiry-based instruction using projects to solve engineering related problems with focus on implementation in the P-12 classroom.

**Prereq.:** TCED 6940.

**TCED 6942 Environmental Inquiry 3 s.h.**

The topics will include energy and material balances, ecosystems, sustainability, water quality regulations and standards, stream hydraulics, introduction to water supply and treatment and wastewater treatment and techniques of solid waste and hazardous waste management.

**Prereq.:** TCED 6940.

**TCED 6943 STEM Integration in the P-12 Classroom 3 s.h.**

Study of integration of STEM into the P-12 classroom through an innovative, integrated curriculum with multiple opportunities for P-12 students to engage in authentic, inquiry-based learning and design thinking.

**TCED 6944 A Global Perspective 3 s.h.**

Understanding of skills needed to compete in the global economy, and how STEM contributes to this. Focus on 21st century skills, persistence, inquiry, communication, creativity, and collaboration. P-12 STEM project development.

**TCED 6945 STEM Leadership 3 s.h.**

Focus on implementation of a STEM program to prepare students with STEM skills for college and career success. Physical environment, necessary resources, administrative and community buy-in and support. Grant writing for STEM education.

**TCED 6946 Supervision of Instruction 3 s.h.**

A course dealing with the supervision of classroom teachers and other personnel for those aspiring to be principals or supervisors. Classroom observation systems, professional development programs, accountability models, and common staff relationship problems are examined.