MASTER OF EDUCATION (M.ED.), MAJOR IN MANAGEMENT OF TECHNICAL EDUCATION

Major Program
The Department of Occupational, Workforce, and Leadership Studies also offers the master of education (M.Ed.) degree for those interested in supervision. The M.Ed. degree has a major in management of technical education and is a highly specialized degree program. It is designed to assist an individual in learning skills that would enhance his or her performance in managing technical education in either an education or an industrial setting. The degree provides the broad skills necessary for an educator or trainer to become a better instructor and manager of instruction. In this program, students develop instructional and managerial competencies through various courses in curriculum design and delivery, instructional improvement, human performance technology, class organization, management, teaching/learning styles, diversity, understanding organizations, and program evaluation. Course schedules are flexible to accommodate the needs of working professionals, and many courses are offered in online and hybrid formats. This option allows students to complete courses from home and study whenever and wherever is convenient. Hybrid courses meet three times each semester, and the remainder of the work is online. Contact the program chair of Department of Occupational, Workforce, and Leadership Studies or go to http://www.oced.txstate.edu/ for more information.

Admission Policy
For information regarding admission application requirements and deadlines, please visit The Graduate College website at http://www.gradcollege.txstate.edu/mtec.

Course Work Requirements
Each level must be completed before a student may start on the next level unless granted permission from the graduate advisor. All 5000-level EDCL courses should be taken in numerical order. CTE electives must be approved by the graduate advisor.

Level I Requirements
Choose 15 hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCL 5339</td>
<td>Understanding Self: Developing a Personal Vision of Leadership</td>
</tr>
<tr>
<td>EDCL 5340</td>
<td>Shaping Organizations and Using Inquiry: Management and Leadership</td>
</tr>
<tr>
<td>EDCL 5345</td>
<td>Understanding People: Professional Development</td>
</tr>
<tr>
<td>EDCL 5347</td>
<td>Understanding Environments: Social, Political, Economic, Legal, and Technological</td>
</tr>
<tr>
<td>EDCL 5348</td>
<td>Supervision of Instruction</td>
</tr>
<tr>
<td>EDCL 6342</td>
<td>Curriculum Design</td>
</tr>
<tr>
<td>EDCL 6344</td>
<td>Campus Leadership</td>
</tr>
</tbody>
</table>

Total Hours: 15

Level II Requirements
Choose 21 hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTE 5301</td>
<td>Technology of Teaching</td>
</tr>
<tr>
<td>CTE 5306</td>
<td>Instructional Materials Development Technology</td>
</tr>
</tbody>
</table>

Total Hours: 21

Courses Offered
Career and Technical Education (CTE)

CTE 5300. Career and Technical Education Student Identification, Placement, and Follow-up.
This course provides an overview of the theory, methods, and instruments used in determining occupational aptitude, programs of job placement, and the study of the development and coordination of student follow-up.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter about Career and Technical Education Student Identification, Placement, and Follow-up

CTE 5301. Technology of Teaching.
This course presents the research and theory related to the technology of teaching. Topics include learning theories, effective teaching techniques, motivation and performance, evaluation, and classroom dynamics.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter about Technology of Teaching

CTE 5302. Coordination Techniques.
This course emphasizes the establishment of cooperative education programs, guidance, selection, and placement of students, work adjustment, the setting of student objectives, evaluation, labor laws, current research, and public relations for cooperative education programs.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter about Coordination Techniques
CTE 5304. Organization and Management of Marketing Education Programs.
This course highlights the organization and administrative structure of both school based and workplace based marketing education programs in the United States. The course includes a discussion of objectives, programs, practices, teacher selection and supervision, and evaluative criteria for business education departments.

about Organization and Management of Marketing Education Programs
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5305. Laboratory and Classroom Organization and Management.
This course involves the organization and management of CTE classroom and instructional laboratories and related materials. It includes the establishment of record and inventory systems, establishment of student rotations, hygiene and safety requirements, working with suppliers and potential donors, and maintenance of equipment.

about Laboratory and Classroom Organization and Management
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5306. Instructional Materials Development Technology.
This course provides students opportunities to develop knowledge, skills, and abilities relevant to assessing instructional materials in education and training, within the context of real-world settings.

about Instructional Materials Development Technology
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5307. Selection, Placement, and Follow-Up in Cooperative Education.
This course provides an overview of organizing and operating cooperative training programs in the community. It includes instruction in the procedures for assisting in the selection of occupations appropriate for students, assisting students in managing school and work time, and coordinating of school and workplace instructional efforts.

about Selection, Placement, and Follow-Up in Cooperative Education
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5308. Problems in Cooperative Training.
This course provides a review of basic standards for cooperative education, underlying reasons for standards, and current issues/problems in cooperative education programs. Students will discuss and provide solutions to current dilemmas of cooperative education, through the use of organizational research techniques and organizational problem solving.

about Problems in Cooperative Training
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5312. Development, Organization, and Use of Instructional Material.
This course involves the selection of lesson content, lesson planning, and instructional material development. The emphasis is on the effective development and evaluation of instructional materials. A variety of methods will be taught to gather and utilize instructional materials.

about Development, Organization, and Use of Instructional Material
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5313A. Teaching Entrepreneurship in Career and Technical Education.
This course includes a study and analysis of ownership, marketing strategies, location, financing, regulations, managing, and protecting a business. Students will analyze current research and techniques in teaching entrepreneurship in CTE settings.

about Teaching Entrepreneurship in Career and Technical Education
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter

CTE 5313B. Leadership and Leadership Activities for Career and Technical Education Teachers.
This course provides an overview of leadership and management styles, theories, and current research. An overview of leadership development techniques utilized in various CTE settings will be provided.

about Leadership and Leadership Activities for Career and Technical Education Teachers
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter

CTE 5313C. Human Performance in the Workplace.
The course provides an overview of current quality improvement strategies utilized in business and industry settings. Topics include the teaching of HPT, organizational culture, teamwork, leadership, measuring improvement, statistical process control, and restructuring of work.

about Human Performance in the Workplace
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter

CTE 5313D. Interdisciplinary Studies in Occupational, Workforce, and Leadership Studies.
This course provides an overview of interdisciplinary studies frameworks in the fields related to occupational, workforce, and leadership studies. Students investigate career options, develop plans of study, integrate interdisciplinary academic material, and refine interdisciplinary writing skills.

about Interdisciplinary Studies in Occupational, Workforce, and Leadership Studies
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter

CTE 5313L. Emergent Workplace Perspectives.
This course examines the emergent and evolving nature of the modern workplace. Students will explore topics related to interdisciplinary perspectives in the workplace such as inequality related to gender and race, workers' rights, knowledge, control, the role of technology, and globalization.

Course Attribute(s): Exclude from 3-peat Processing
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5314. Human Relations for Career and Technical Education Teachers.
This course includes a study of methods of establishing and maintaining effective relationships with students, co-workers, families, business and industry, and community members. Strategies for teaching students and mentoring employees on the dynamics of human relations are highlighted.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5320. Effective Methods of Teaching and Training.
This fundamental course is for trade and industrial educators seeking certification and technical trainers who are not seeking certification. It is designed to prepare them to apply effective teaching principles and techniques. Lesson plans will be prepared, classrooms managed, and practice teaching included.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5321. Work-based Learning in Career and Technical Education.
This course is intended for teacher coordinators of work-based programs in trades and industrial cooperative education. There is an emphasis on selection of occupations and training stations, student recruitment, instructional coordination in numerous on-the-job experiences, state and local reports, and recordkeeping requirements. Research is conducted on local districts.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5322. Teaching and Training as Professions.
This course emphasizes the professional requirements of teaching and training in a variety of settings. Professional topics include licensure and preparation for the profession, organizations, philosophical foundations of teaching and training, and the socio-political landscape of teaching and training. Research is conducted on reform efforts.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5323. Technology Applications.
This course covers the use of computers in the classroom or office. Topics include history of computers, philosophies of computer integration, research in computer use, overview of common computer programs, and history and use of the Internet. Trades and Industry teacher candidates will review for the TExES examination.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5330. Overview of Interdisciplinary Research.
Students will become familiar with various interdisciplinary research methods, learn concepts related to research, and conduct reviews and critiques of academic research articles. The application of academic research to practical problems will be emphasized.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5341. Supervision of Career and Technical Education.
This course provides an overview of skills and attitudes for the supervision of personnel in the field of CTE. Students will learn the dynamics of supervision, the supervisor's role in the workplace, and the evaluation of instructional and other personnel in CTE settings.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

This course deals with the collection, evaluation, and interpretation of common occupational, career, and personal information. It includes an overview of current theory and research in occupational selection techniques, psychological and sociological factors in career selection, and job analysis. The emphasis is on the practical application in CTE settings.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

CTE 5380. Management of Business Office Education Training Programs.
This course is for instructors in industry and business education settings and involves an in-depth analysis of governmental policies relating to teaching and training in business education, working with cooperative education students, assisting individuals with the transition to the workplace and further education.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
CTE 5381. Instructional Strategies in Business Office Education Training Programs.
This course is designed for instructors in educational and industry settings. Students will learn to prepare in-depth individualized units of instruction, which include selecting curriculum, incorporating technology in teaching and training, and methods of assessment. about Instructional Strategies in Business Office Education Training Programs
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Instructional Strategies in Business Office Education Training Programs

CTE 5390. Independent Study in Career and Technical Education.
This is an independent study course involving the study of important and timely topics in CTE. Students complete the study at the direction of the faculty member. This course may be repeated with different topics with departmental permission.
about Independent Study in Career and Technical Education
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing
Grade Mode: Standard Letter
about Independent Study in Career and Technical Education

Occupational Education (OCED)

OCED 5101. Instructional Skill Development.
Graduate assistants are required to enroll in this course to be prepared to instruct/assist with classes in Occupational/Career and Technology Education. Topics covered are essential teaching strategies, techniques, evaluation design, online instruction, and effective instructional, motivational techniques. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis.
about Instructional Skill Development
1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Course Attribute(s): Graduate Assistantship|Exclude from Graduate GPA
Grade Mode: Leveling/Assistantships
about Instructional Skill Development

OCED 5300. Interdisciplinary Research Methods.
Basic and advanced concepts related to interdisciplinary research. Special emphasis will be placed on technical writing skills, electronic analysis of databases, appropriate statistical treatment of data, development and validation of instruments, and interdisciplinary research design and procedures.
about Interdisciplinary Research Methods
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Interdisciplinary Research Methods

The instructional intent is to provide the graduate students with an opportunity to apply their research skills. Students are carefully monitored and mentored in initiating, performing, and documenting their individualized research project. Prerequisites: OCED 5300 and approval of research proposal.
about Applied Interdisciplinary Research Part 1
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Applied Interdisciplinary Research Part 1

This course is the final course in the interdisciplinary research series. It requires the development of a comprehensive final research report including extensive tables and graphs. Students must also be prepared to present the findings of the research to the Occupational Education faculty and students at the Graduate Research Forum. Prerequisite: OCED 5301.
about Applied Interdisciplinary Research Part 2
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Applied Interdisciplinary Research Part 2

OCED 5304. Professional Practicum.
This course engages students in a field based experience designed in OCED 5360C, the previous course in the sequence. Students implement their practicum of approximately 120 hours in a work-based setting and concurrently collect ongoing reflections of their experience. Prerequisite: OCED 5360C.
about Professional Practicum
3 Credit Hours. 1 Lecture Contact Hour. 8 Lab Contact Hours.
Grade Mode: Standard Letter
about Professional Practicum

OCED 5310. Human Problems in the Workplace.
Overview of problems that supervisors, teachers, and co-workers encounter in business/industry, social service, military, or education. This range of problems interferes with communication, performance, and development of proficiency in school/work. Perspectives and reports on the incidence of these problems will be presented, as well as actions for these human problems.
about Human Problems in the Workplace
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Human Problems in the Workplace

OCED 5360. Special Topics in Occupational Education.
This course represents directed study and research in selected topics in occupational education such as systems theory or critical thinking for the workplace. Independent research projects may be assigned to each student as part of the course. May be repeated (with different emphases) for credit.
about Special Topics in Occupational Education
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter
about Special Topics in Occupational Education

OCED 5360A. Sustainable Human Systems in Occupational Sciences.
This course provides students with a knowledge foundation for systems theory. This knowledge, plus ethical reflection and applicable field work, will enhance students’ ability to understand human systems, ambiguity in those systems and organizational complexity, and have the ability to leverage systemic problem-solving skills and human interventions in organizations.
about Sustainable Human Systems in Occupational Sciences
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter
about Sustainable Human Systems in Occupational Sciences
OCED 5360B. Critical Thinking in the Workplace.
This course provides students with an opportunity to examine workplace decision making in terms of critical thinking. Current occupational approaches to critical thinking will be emphasized. Students will participate in simulations and case studies of critical thinking for the workplace.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter
about Critical Thinking in the Workplace

OCED 5360C. Reflective and Experiential Learning Techniques.
This course prepares graduate students for a field-based practicum. Students learn reflection and experiential learning techniques useful in the domain of careers, workplace, and leadership. They also locate, develop, and propose a professional practicum experience, which can be carried out in a following course. Prerequisite or Co-requisite: CTE 5330.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter
about Reflective and Experiential Learning Techniques

OCED 5360D. Leadership Development.
This course introduces students to leadership theory. Students will explore multiple approaches to leadership, topics related to leadership within organizations, ethics and values in leadership, and practical applications of theory in real-life situations.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter
about Leadership Development