Career and Technical Education, M.S.Ed.


About the Program

The mission of the Master of Science in Education program in Career and Technical Education is to enable its students to apply advanced pedagogical skills, knowledge, and attributes in a career and technical education setting at the secondary and post-secondary levels. Individuals pursuing this degree already hold instructional or vocational certification in Pennsylvania. While pursuing this online degree, individuals pursue Pennsylvania certification in cooperative education, supervision of vocational education, and director of vocational education. The degree provides specialized knowledge in areas of workforce development, leadership, industry trends and issues, the role of workforce development in a dynamic economy, and infusing industry standards into secondary career and technical education programs.

Time Limit for Degree Completion: 4 years

Campus Location: Online

Full-Time/Part-Time Status: Students complete the degree program online on a full- or part-time basis.

Accreditation: The program is accredited by the Teacher Education Accreditation Council (TEAC).

Job Prospects: Graduates are prepared for leadership roles as teachers, adult instructors, curriculum specialists, career and technical center administrators, and technical trainers in business and industry.

Non-Matriculated Student Policy: Students may take up to, but not more than, 9 credits of graduate study in the program before being admitted to the program. The credits transfer into the program, if the student is admitted. Students completing non-matriculated courses before being admitted to the program are NOT guaranteed admission.

Financing Opportunities: Financial support opportunities may include scholarships, tuition remission, and other financial aid such as grants, loans, and federal work study.

Admission Requirements and Deadlines

Application Deadline:

Fall: March 1
Spring: November 1

Applicants should submit all required admissions documents by the application deadline to receive priority consideration for admission and financial support.

APPLY ONLINE to this graduate program.

Letters of Reference:

Number Required: 2

From Whom: Letters of recommendation should be obtained to provide insight regarding the applicant's academic competence. References from college/university faculty are recommended.

Bachelor's Degree in Discipline/Related Discipline: A bachelor's degree is required. A minimum UGPA of 3.0 is expected.

International applicants should also submit an official document that validates completion and conferral of a degree, diploma, and/or certificate. While not required, international applicants are encouraged to submit transcript(s) to the World Education Services (WES) for evaluation.

Statement of Goals: In 500 to 1,000 words, outline your interest in seeking a master's degree with a specific focus on the career to which you aspire, your interests, and your academic and job-related experiences that are relevant to the program.

Standardized Test Scores:

Applicants whose native language is not English must provide scores from a TOEFL, IELTS, or PTE Academic exam. Scores must meet the following minimums:

TOEFL: 79 iBT or 550 PBT
IELTS: 6.5
PTE Academic: 53

Resume: Current resume required.

Other Requirements:

1. Official undergraduate and graduate transcripts from all accredited institutions attended and/or from which credit was earned
2. A copy of a valid Pennsylvania Teaching Certification or demonstration of at least three years of successful practice in an educational setting

Program Requirements

General Program Requirements:

Number of Credits Required Beyond the Baccalaureate: 30

Required Courses:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CTE 5423</td>
<td>Leadership in Career and Technical Education</td>
<td>3</td>
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<tr>
<td>CTE 8501</td>
<td>Curriculum Development for Programs of Study in Career and Technical Education</td>
<td>3</td>
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<tr>
<td>CTE 8507</td>
<td>The Role of Career and Technical Education in Workforce and Economic Development</td>
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<td>CTE 8521</td>
<td>Collaborative Processes for Effective Career and Technical Education Programs</td>
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<tr>
<td>CTE 8527</td>
<td>Program Planning, Evaluation, and Systems Alignment in Career and Technical Education</td>
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<td>CTE 8528</td>
<td>Creating a Culture of Teaching and Learning in Career and Technical Education Programs</td>
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<tr>
<td>CTE 8589</td>
<td>Managing Resources and Data Driven Decision Making in Career and Technical Education</td>
<td>3</td>
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<tr>
<td>EDAD 5302</td>
<td>Contexts for Sch Reform</td>
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<td>EDAD 5305</td>
<td>Knowledge Sch Improve</td>
<td>3</td>
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<tr>
<td>or EDAD 5304</td>
<td>Sch Operations, Mgmt, Tech</td>
<td>3</td>
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Practicum

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CTE 9885</td>
<td>Internship in Career and Technical Education</td>
<td>3</td>
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Total Credit Hours 30

1 All ten courses must be completed to earn Pennsylvania Department of Education certification for Vocational Administrative Director.

2 Successful completion of this set of five courses leads to Pennsylvania Department of Education certification for Vocational Supervisor.

Culminating Events:

Practicum:
Students must complete CTE 9885 Internship in Career and Technical Education to satisfy the practicum requirement.

Contacts

Program Web Address:

Department Information:
Dept. of Teaching and Learning
College of Education
1301 Cecil B. Moore Avenue
Philadelphia, PA 19122-6091
educate@temple.edu
215-204-0999

Submission Address for Application Materials:
http://apply.temple.edu/coe

Department Contacts:
Admissions:
Office of Enrollment Management
Courses

CTE 5401. Current Problems in Career and Technical Education. 1 to 6 Credit Hour.
This seminar covers selected school and training topics, including workforce development, training, managing information systems, diversity issues, school-industry partnerships, and performance evaluation.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

CTE 5411. Evaluation in Career and Technical Education. 3 Credit Hours.
Students learn how to develop and use a variety of evaluation methods to monitor student academic and occupational achievement as well as teaching effectiveness. Special emphasis is placed on relating evaluations to occupational curricula and instruction. Students learn about standardized tests and other diagnostic tools frequently encountered and/or used by classroom teachers. Particular attention is given to adapting assessments to meet the needs of all students. Contemporary issues related to testing, grading, evaluation, and accountability are addressed.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

CTE 5423. Leadership in Career and Technical Education. 3 Credit Hours.
This course provides an overview of school leadership and the principles of leading in a career and technical education setting, examining them with specific reference to the roles of the administrative director and comprehensive supervisor. These particular roles are analyzed with an emphasis on inspiring staff to improve students’ academic and technical achievement.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

CTE 5426. Professionalism and Staff Development. 3 Credit Hours.
This course focuses on teacher professionalism and staff development and how schools can build capacity to maintain these systems. The course deals with the national standards for professional development; the process, content, and context of staff development; and the development of reflective practices.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

CTE 5669. Project-Based Learning. 3 Credit Hours.
The course is designed to help educators plan and apply learning theory and principles of project-based learning to the development of business-related instruction in the elementary school classroom.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

CTE 5887. Pedagogical Competence. 3 to 15 Credit Hours.
Prospective career and technical teachers/technical trainees are placed in supervised public school/industrial experiences and assisted in developing specialized teaching strategies through individualized instruction and seminar activities. (This constitutes an alternative delivery system equivalent to the professional requirement.)

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

CTE 8324. Coordination Methods for Work-Based Learning. 3 Credit Hours.
The history, development, and operation of cooperative education programs are covered. Also explored are the development and promotion of a workplace-learning program, the development of workplace-learning partnerships, workplace-learning sites, safety considerations for students in the workplace, and connecting work-based and school-based learning.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.
CTE 8331. Instructional Methods for Work-Based Learning. 3 Credit Hours.
This course covers the role of the teacher-coordinator in conducting and teaching procedures and activities necessary for providing successful supervised field experiences for students in the workplace. Also covered are methods of establishing contact with students, employers, teachers, parents, and community leaders; career and technical student organizations; and students with special needs. The course also explores developing and understanding labor laws and other legal requirements affecting student workers/interns.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

CTE 8501. Curriculum Development for Programs of Study in Career and Technical Education. 3 Credit Hours.
Students study and analyze curriculum theories and the practical application of a systems approach in the analysis, design, development, implementation, and evaluation of technical education and training programs. Students learn about back-to-front design, performance and standards-based education, standards-aligned curriculum systems, and curriculum frameworks associated with program articulation, including "programs of study."

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

CTE 8507. The Role of Career and Technical Education in Workforce and Economic Development. 3 Credit Hours.
This course explores the range of activities covered by state and federal career and technical (vocational) education laws; career and technical education as an integral part of the public school and workforce development systems; and the development of a point of view regarding the role of career and technical education in economic development.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

CTE 8521. Collaborative Processes for Effective Career and Technical Education Programs. 3 Credit Hours.
This course focuses on the role of collaboration with both internal and external stakeholders of the CTE enterprise, including relationships with staff, parents, business and industry, government, professional associations and media groups. Students will learn the importance of partnerships and will examine ways to expand and enhance these partnerships for the ultimate purpose of improving student performance. The course is taught in a context of ethical leadership and decision making.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

CTE 8527. Program Planning, Evaluation, and Systems Alignment in Career and Technical Education. 3 Credit Hours.
Students study the factors used to determine the vocational training needs of labor market areas, including local industrial expansion, recession, unemployment, aging workforce, and emerging technologies. Students also consider the organization, academic and skills standards, curriculum and instruction alignment, physical facilities, post-secondary connections and articulation, and scope and sequence of career and technical education programs. The course also focuses on conducting formative and summative program evaluations.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

CTE 8528. Creating a Culture of Teaching and Learning in Career and Technical Education Programs. 3 Credit Hours.
This course is designed to prepare CTE leaders to empower and support professional staff to improve students' academic and technical performance. Candidates will learn how to implement clinical supervision, peer coaching, and apply formative and summative personnel evaluation methods in workforce education programs. In addition, school reform initiatives and best practices will be addressed that frame staff development as a system for continuous learning and improvement of the CTE curriculum and students' learning.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.
CTE 8589. Managing Resources and Data Driven Decision Making in Career and Technical Education. 3 Credit Hours.
CTE facilities are unique to education. They include industry-standard equipment and utilities that are not typically found in academic high schools. Prospective CTE leaders must understand and know how to apply systems to secure, maintain, and replace facility related items for technical curricula. These systems ensure the health and safety of students while providing the required resources to effectively prepare them for a variety of technical careers.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

CTE 8690. Problems in CTE. 1 to 3 Credit Hour.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

CTE 8890. Special Topics/Problems in Career and Technical Education. 3 Credit Hours.
The course focuses on contemporary issues and/or problems in workforce education. Enrollment is limited to master's degree students.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

CTE 9389. Supervised Work Experience. 1 to 3 Credit Hour.
Technical work experience in business and industry designed for all fields of career and technical education.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

CTE 9482. Directed Independent Study. 1 to 6 Credit Hour.
Problem-based topics related to vocational education or technical training are investigated.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

CTE 9685. Internship in Career and Technical Education. 3 to 6 Credit Hours.
Credit is given for a supervised internship within a specified field of CTE/technical training to provide the student with leadership development experiences.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

CTE 9885. Internship in Career and Technical Education. 3 to 12 Credit Hours.
This supervised internship in a CTE setting provides the student, who is a candidate for system leader, with education leadership experiences.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.