

# CAREER & TECHNICAL EDUCATION (CTE)

## CTE 100 COMPREHENSIVE THEORETICAL TRADE OR TECHNICAL SKILLS

15, 0/0

Credit is awarded for satisfactory completion of trade theory. Assessment of competency is based on verification of four years' employment in a trade normally taught in vocational high school programs. Graduates of community college technical programs in appropriate trades are required to verify two years' employment. The National Occupational Competency Testing Institute Examination and/or other assessment techniques may be used to determine credit of 15 semester hours. Offered every semester.

## CTE 200 COMPREHENSIVE TRADE OR TECHNICAL PERFORMANCE SKILLS

15, 0/0

Credit is awarded for satisfactory completion of trade theory. Assessment of competency is based on verification of four years' employment in a trade normally taught in vocational high school programs. Graduates of community college technical programs in appropriate trades are required to verify two years' employment. The National Occupational Competency Testing Institute Examination and/or other assessment techniques may be used to determine credit of 15 semester hours. Offered every semester.

## CTE 301 FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION

3, 3/0

Introduction to the teaching of occupational education courses in public schools; principles, philosophy, and objectives; historical development of occupational education and the development of current issues for an occupational education program. Offered every semester.

Equivalent Courses: BME 301, FCS 301

## CTE 302 CURRICULUM AND EVALUATION IN CAREER AND TECHNICAL EDUCATION

3, 3/0; IN23, RE23

Introduction to the curriculum and evaluation in business/marketing and technology education. State curriculum and standards, lesson planning, student learning, and curriculum evaluation. Offered every semester.

Equivalent Courses: BME 302, FCS 302

## CTE 303 INSTRUCTIONAL STRATEGIES IN CAREER AND TECHNICAL EDUCATION

3, 3/0

Instructional strategies dealing with classroom management, classroom environment, and educational technologies. 100 hours of field experience prior to student teaching required. Offered every semester.

Equivalent Courses: BME 303, FCS 303

## CTE 306 CLASSROOM/LABORATORY MANAGEMENT

3, 3/0

Organizational factors that influence the success of career-technical education teachers. Includes facility planning, redesign, and managerial phases of the career-technical teacher's responsibilities. Offered fall only.

## CTE 311 CAREER MENTORING

3, 1/2

Prerequisite: Enrollment in CTE, BME, TED or FACS majors or permission of the chair. Overview of career awareness for exploration, guidance, and workplace skills. Classroom pedagogy and field experiences provide mentoring opportunities with middle school and high school students or with adults seeking retraining for new career choices. Majors obtain teaching skills while providing service to the community at off-campus locations during class times. Includes demonstrations of various trade skills and career fairs. Classes meet on and off campus. Offered every semester.

## CTE 350 SCHOOL AND COMMUNITY RELATIONSHIP FIELD EXPERIENCE

3, 1/2

Prerequisite: CTE major. Overview of school and community relations. Classroom and field experience involves students in the concepts of planning and executing a successful vocational-career promotional event. Students are placed off campus at community sites and/or middle school or high school locations. Thirty hours of internships and promotional events at off-site locations are required. Offered spring only.

## CTE 402 ASSESSMENT IN CAREER AND TECHNICAL EDUCATION

3, 3/0

Prerequisite: CTE 302. Overview of assessment in classroom, laboratory, internship, and clinical situations. Principles of effective assessment include different approaches and methods of assessment, evaluation, and testing techniques. Addresses portfolio development, reflective journals, authentic and performance assessment, and objective testing as applicable to career and technical subjects. Offered fall only.

## CTE 404 METHODS OF TEACHING CAREER AND TECHNICAL SUBJECTS

3, 3/0; IN23, RE23

Prerequisites: BME/CTE/FCS 301 and BME/CTE/FCS 302. Basic principles and methods of teaching business and marketing subjects. Prepares the student to effectively teach subjects in this area. Offered every semester.

Equivalent Courses: BME 411, FCS 404

**CTE 413 STUDENT TEACHING CAREER AND TECHNICAL EDUCATION**

3-6, 0/3; IN23, RE23

Prerequisites: CTE 302, CTE 404, and NOCTI Trade Examination or equivalent. Career and technical education major and completion of at least 18 credits in CTE required courses. Supervised teaching in career-technical classes in selected career-technical schools, in various types of schools and communities. Three hundred hours of practice teaching in off-site campus programs required. Conferences and reports based upon teaching assignments are required. Seminar discussions consist of professional problems of the beginning teacher. Students should be prepared to accept assignment at any school designated by the student-teacher coordinator. Student-teaching assignments are located throughout Western New York. Offered every semester.

**CTE 415 PROFESSIONAL DEVELOPMENT SEMINAR**

3, 3/0

Prerequisite: Successful completion of the basic writing requirement. Synthesis of pedagogical courses and practice-teaching experience. Analysis of problems that confront teachers. Offered fall only.

**CTE 421 CAREER AND TECHNICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS**

3, 3/0

Planning, coordinating, and delivering programs for individuals with special needs found in secondary and postsecondary schools, rehabilitation centers, and correctional facilities. Development of methods and techniques for teaching and assessing the work potential of individuals with special needs. Development of self-help devices/adaptive equipment. Identifying instructional resources. Offered every semester.

**CTE 435 CURRICULAR PROBLEMS OF CAREER AND TECHNICAL SCHOOLS**

3, 3/0

Prerequisites: CTE 302 and CTE 404. Basic principles and foundations of curriculum development for trade and technical programs. Technological, sociological, and educational factors that effect change in curriculum. The integral parts of a curriculum and newer concepts of curriculum programs and materials. Emphasis on curricular problems of teachers and administrators in their individual schools. Offered alternate years.

**CTE 450 ORGANIZATION OF DIVERSIFIED COOPERATIVE WORK-STUDY PROGRAMS**

3, 0/0

CTE 450

**CTE 455 OPERATION OF DIVERSIFIED COOPERATIVE WORK-STUDY PROGRAMS**

3, 0/0

CTE 455

**CTE 479 POSTSECONDARY INSTRUCTION PRACTICUM**

6, 1/5

Prerequisites: CTE 302, CTE 404, and NOCTI Trade Examination or equivalent; career and technical education major; completion of at least 18 credit hours in required CTE courses. Part- or full-time teaching assignment in a post secondary-level, career-technical education program. Develops and refines skills and understandings of the teaching-learning process as it relates to career-technical teaching, under the guidance and supervision of college faculty. S or U grade only. Offered alternate years.

**CTE 489 INDUSTRIAL TRAINER PRACTICUM**

6, 3/3

Prerequisites: CTE 302, CTE 404, and NOCTI Trade Examination or equivalent; career and technical education major; completion of at least 18 credit hours in CTE required courses; CTE program coordinator approval. Part- or full-time assignment in a business or industrial training program. Develops and refines skills and understanding of occupational training practices, under the guidance and supervision of business and industry training personnel and college faculty. S or U grade only. Offered alternate years.

**CTE 492 OCCUPATIONAL PRACTICUM**

6, 3/3

Prerequisites: CTE 100 and CTE 200 (NOCTI Trade Examination) or equivalent; career and technical education major. Advanced specialization development for students with prior occupational experience such as on-the-job upgrading, occupational workshops, and in-service institutes. May be taken for credit more than once by advisement. Offered alternate years.

**CTE 495 SPECIAL PROJECT**

3, 0/0

Offered alternate years.

**CTE 497 SPECIAL WORKSHOP**

3, 0/0

Offered summer only.

**CTE 499 INDEPENDENT STUDY**

3-30, 0/0

Offered every summer.

**CTE 530 CAREER EDUCATION: RATIONALE, NATURE, AND CONCEPTS**

3, 3/0

Career education concepts, terminology, and models for elementary school through college; present programs, research, and current thinking on career education.

**CTE 536 CONTEMPORARY METHODOLOGY**

3, 3/0

New and emerging techniques of instruction and their applications to specific individual problems; development of models appropriate to students' particular subject areas.

**CTE 550 ORGANIZATION OF DIVERSIFIED COOPERATIVE WORK-STUDY PROGRAMS**

3, 3/0

Information for occupational teachers and department chairs or supervisors interested in establishing diversified cooperative programs; procedures for promoting a new program; working with advisory boards; developing employment opportunities; arranging trainee outlines; planning instructional facilities; securing Regents accreditation.

**CTE 555 OPERATION OF DIVERSIFIED COOPERATIVE WORK-STUDY PROGRAMS**

3, 3/0

Conducting effective instruction in diversified cooperative programs; interviewing employers; supervising trainees; interpreting legal aspects; preparing records and reports; conducting classes in related theory.

**CTE 590 INDEPENDENT STUDY**

1-3, 0/0

**CTE 594 GRADUATE WORKSHOP**

1-3, 0/0

CTE 594

**CTE 600 CONTEMPORARY ISSUES IN OCCUPATIONAL EDUCATION**

3, 3/0

Current issues, practices, policies, and literature in occupational education.

**CTE 601 SUPERVISION OF VOCATIONAL EDUCATION**

3, 3/0

Nature and scope of supervision; surveying and analyzing needs and facilities; planning, initiating, and maintaining supervisory programs; evaluating procedures and outcomes; trends in occupational education.

**CTE 602 ADMINISTRATION OF VOCATIONAL EDUCATION**

3, 3/0

Nature and scope of administering vocational technical programs: curriculum; integration with industry; evaluation; community relationships; advisory board development; state and national relationships.

Equivalent Course: BME 602

**CTE 603 SELECT TOPICS IN THE ORGANIZATION AND ADMINISTRATION/SUPERVISION OF VOCATIONAL EDUCATION**

3, 3/0

Prerequisite: CTE 601 or instructor permission. Problems arising in the organization, administration, and supervision of vocational technical education.

**CTE 604 TECHNICAL PROJECT**

3, 3/0

Internship experience with industry or business to study new techniques, operations, and processes, cooperatively initiated by faculty and student. Students develop instructional material reflecting the new knowledge and skills gained.

**CTE 605 OCCUPATIONAL GUIDANCE FOR CAREER EXPLORATION**

3, 3/0

Prerequisite: Graduate status and career and technical education program major or instructor permission. Vocational guidance techniques and procedures that may be effectively used in career counseling for the changing world of work.

**CTE 606 HISTORY AND PHILOSOPHY OF OCCUPATIONAL EDUCATION**

3, 3/0

Historical review of the philosophical, sociological, economic, and political indices that have influenced the development of vocational technical education.

**CTE 620 STRUCTURE OF OCCUPATIONAL PROGRAMS**

3, 3/0

Prerequisite: Graduate status or instructor permission. Structure of occupational education; survey and analysis of present programs; assessment of articulation between programs; viability of the occupational education structure in light of internal and external forces promoting change.

**CTE 625 INTERRELATIONSHIPS OF LABOR, MANAGEMENT, AND OCCUPATIONAL EDUCATION**

3, 3/0

Roles of labor and management in American society, their relationship to occupational education, and their historical development; the impact of technology; interpreting the needs of industry for occupational and continuing education.

**CTE 655 DIVERSITY ISSUES IN ADULT EDUCATION AND TRAINING**

3, 3/0

Prerequisite: Graduate status. Teaching and learning implications of diversity for adult educational achievement and career opportunities. Implications for course content and classroom management styles when adult educators are sensitive to race, ethnicity, gender, sexual orientation, class, and physical ability. Methods for structuring course content, designing curricula, and educating learners by promoting and embracing a diverse population of colleagues, learners, workers, and clients.

Equivalent Course: ADE 655

**CTE 675 POSTSECONDARY TEACHING PRACTICUM**

3, 2/0

Prerequisites: Graduate status, ADE 610 or CTE 536, and instructor permission. Promotes expertise in teaching in human resource development adult education, workforce training, community colleges, and GED program settings. Extended teaching assignments with coach/mentor assistance. Seminar-type discussions reflecting on learning and development of learners as they taught, principles of teaching, their teaching behaviors, strategies promoting continuing growth as teachers. Analyze issues in teaching: diversity, technology, exceptionality, promoting social justice.

Equivalent Course: ADE 675

**CTE 690 MASTER'S PROJECT**

3, 3/0

Research or investigation of a particular problem, planned and carried out by the student and guided by the instructor.

**CTE 695 MASTER'S THESIS**

6, 6/0

Individual investigation of an original problem submitted in acceptable form according to directions given by the Graduate School. Problem and procedure must be approved by the student's graduate adviser, CTE advisory committee, and the department chair before the investigation begins.

**CTE 721 THESIS/PROJECT CONTINUATION**

0, 0/0

**CTE 722 THESIS/PROJECT EXTENDED**

0, 0/0