# Career and Technical - CTCT

## Courses

**CTCT 2100 POWER EQUIPMENT TECHNOLOGY (3)** LEC. 2. LAB. 3. Repair and maintenance of small air-cooled engines and power equipment in Agriculture. May count either CTCT 2100 or CTCT 3100.

**CTCT 2200 COMPUTER LITERACY IN BUSINESS EDUCATION (3)** LEC. 1. LAB. 4. Advanced formatting, processing, and evaluation of business correspondence, as well as administrative and employment documents. Includes basic computer literacy skills. May count either CTCT 2200 or CTCT 2203.

**CTCT 3000 LEADERSHIP SKILLS FOR PERSONAL AND ORGANIZATIONAL DEVELOPMENT (3)** LEC. 3. Organizational and leadership skills needed to become successful professionals in work or community activities; skills and strategies for conducting efficient meetings. Departmental approval. May count either CTCT 3000 or CTCT 3003.

**CTCT 3250 INFORMATION ANALYSIS (3)** LEC. 3. Decision-making and business problem solving using microcomputer software applications including spreadsheets, database management programs, and operating systems. May count either CTCT 3250 or CTCT 3253.

**CTCT 4000 CLASSROOM/LABORATORY MANAGEMENT, ORGANIZATION AND EVALUATION IN CAREER AND TECHNICAL EDUCATION (2)** LEC. 2. Admission to Teacher Education. Organization, objectives, principles, management, and evaluation of career and technical education classrooms, laboratories, and programs. May count either CTCT 4000 or CTCT 4003.

**CTCT 4030 CAREER AND TECHNICAL STUDENT ORGANIZATIONS (3)** LEC. 3. Survey of career and technical student organizations; procedures involved in developing and implementing informal and co-curricular educational programs for students and preparing students for state and national competitions.

**CTCT 4140 AGRICULTURAL STRUCTURE AND METAL FABRICATION TECHNOLOGY (3)** LEC. 2. LAB. 3. Materials selection and construction procedures for carpentry, concrete, masonry, electricity, plumbing, and metal fabrication.

**CTCT 4160 SUPERVISED AGRICULTURAL EXPERIENCE PROGRAMS (2)** LEC. 2. Responsibility for SAEP planning, supervision, and evaluation of entrepreneurship, placement, exploratory, analytical, and experimental SAEPs and record books; completing award applications.

**CTCT 4900 DIRECTED STUDIES (1-6)** IND. SU. Departmental approval. The student's learning efforts are guided toward desired objectives. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

**CTCT 4910 PRACTICUM IN AREA OF SPECIALIZATION (1-6)** DSL/PRA. SU. Departmental approval. Provides experience relating theory and practice, usually carried on simultaneously. Course may be repeated for a maximum of 6 credit hours.

**CTCT 4920 CLINICAL RESIDENCY (12)** AAB/DSL. 40. SU. Admission to Clinical Residency. Supervised clinical residency experiences abroad in a school or other appropriate setting. Evaluation and analysis of the clinical residency experience. May count either CTCT 4920 or CTCT 4923.

**CTCT 4940 DIRECTED FIELD EXPERIENCE IN AREA OF SPECIALIZATION (1-3)** DAG/FLD. SU. Supervised occupational work experience in an approved specialization-related occupation. Departmental approval. May count either CTCT 4940 or CTCT 4943. Course may be repeated for a maximum of 3 credit hours.

**CTCT 4970 SPECIAL TOPICS IN AREA OF SPECIALIZATION (1-6)** DSL. Departmental approval. Current or special topics within area of specialization. Course may be repeated for a maximum of 6 credit hours.

**CTCT 5050 METHODS OF TEACHING IN AREA OF SPECIALIZATION (3)** LEC. 2. LAB. 2. Admission to Teacher Education. Methods and techniques of instruction using appropriate instructional materials; planning and evaluation of instruction for programs within career and technical education. May count CTCT 5050, CTCT 5053, CTCT 6050, or CTCT 6056.

**CTCT 5060 PROGRAM PLANNING IN AREA OF SPECIALIZATION (3)** LEC. 3. Admission to Teacher Education. Introduction to principles and practices involved in designing education programs in the area of specialization. May count CTCT 5060, CTCT 5063, CTCT 6060, or CTCT 6066.

**CTCT 5080 PRINCIPLES OF COORDINATION (3)** LEC. 3. Admission to Teacher Education. Coordination, placement, and supervision of students in work-based programs; development of employability skills. May count CTCT 5080, CTCT 5083, CTCT 6080, or CTCT 6086.

**CTCT 5200 RECORDS MANAGEMENT SYSTEMS (3)** LEC. 3. Study of integrated records management systems, functions, systems, and careers; including decision making and problem solving using software applications. May count either CTCT 5200/CTCT 6200 or CTCT 6200/CTCT 6206.

**CTCT 5240 MULTIMEDIA DESIGN (3)** LEC. 3. Focus on presentation, desktop publishing, multimedia production, web page design, and digital graphics. May count either CTCT 5240/CTCT 5243 or CTCT 6240/CTCT 6246.

**CTCT 5250 INFORMATION DESIGN & ANALYSIS (3)** LEC. 3. Decision making, problem solving, and presentation using business software applications. May Count Either CTCT 3250/CTCT 3253 or CTCT 5250/CTCT 5253 CTCT 6250/CTCT 6256.

**CTCT 5260 APPLIED COMPUTER TECHNOLOGY (3)** LEC. 3. Capstone course with emphasis on integration of business software for decision making, processing, collaboration and management functions, including accounting and financial management. May count either CTCT 5260/CTCT 5263 or CTCT 6260/CTCT 6266.

**CTCT 5940 WORK EXPERIENCE IN INFORMATION TECHNOLOGY (3)** LEC. 3. SU. Supervised occupational work experience in a Commerce and Information Technology environment. May count either CTCT 4940/CTCT 4943 or CTCT 5940/CTCT 5943 or CTCT 6940/CTCT 6946.

**CTCT 6050 METHODS OF TEACHING IN AREA OF SPECIALIZATION (3)** LEC. 2. LAB. 2. Methods and techniques of instruction using appropriate instructional materials; planning and evaluation of instruction for programs within the area of specialization. Admission to alternative master's program. May count CTCT 5050, CTCT 5053, CTCT 6050, or CTCT 6056.

**CTCT 6060 PROGRAM PLANNING IN AREA OF SPECIALIZATION (3)** LEC. 3. Introduction to principles and practices involved in designing educational programs in the area of specialization. Admission to alternative master's program. May count CTCT 5060, CTCT 6060, or CTCT 6066.

**CTCT 6080 PRINCIPLES OF COORDINATION (3)** LEC. 3. Coordination, placement, and supervision of students in work-based programs; development of employability skills. May count CTCT 5080, CTCT 5083, CTCT 6080, or CTCT 6086.

**CTCT 6200 RECORDS MANAGEMENT SYSTEMS (3)** LEC. 3. Study of integrated records management systems, functions, and careers; including decision making and problem solving using software applications. May count either CTCT 5200/CTCT 5203 or CTCT 6200/CTCT 6206.

**CTCT 6240 MULTIMEDIA DESIGN (3)** LEC. 3. Focus on presentation, desktop publishing, multimedia production, web page design, and digital graphics. May count either CTCT 6240/CTCT 62406 or CTCT 5240/5243.

**CTCT 6250 INFORMATION DESIGN & ANALYSIS (3)** LEC. 3. Decision making, problem solving, and presentation using business software applications. May count either CTCT 6250/CTCT 6256 or CTCT 5250/5253.

**CTCT 6260 APPLIED COMPUTER TECHNOLOGY (3)** LEC. 3. Capstone course with emphasis on integration of business software for decision making, processing, collaboration and management functions, including accounting and financial management. May count either CTCT 5260/CTCT 5263 or CTCT 6260/6266.

**CTCT 6940 WORK EXPERIENCE IN INFORMATION TECHNOLOGY (3)** LEC. 3. SU. Supervised occupational work experience and software application in a Commerce and Information Technology environment. May count either CTCT 6940/CTCT 6946 or CTCT 5940/5943.

**CTCT 7000 FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION (3)** LEC. 3. Philosophical, historical, economic, and sociological perspectives of vocational education in relation to the organization of vocational education programs. May count either CTCT 7000 or CTCT 7006.

**CTCT 7010 YOUTH PROGRAM DEVELOPMENT (3)** LEC. 3. Developing, managing, and evaluating formal and informal youth education programs; training volunteers for youth development programs; securing and developing supporting resources. Departmental approval. May count either CTCT 7010 or CTCT 7016.

**CTCT 7100 TEACHING MECHANICAL TECHNOLOGY (3)** LEC. 2. LAB. 2. Theory and practice of managing agricultural mechanics laboratories, theories of machine operation, and maintaining laboratory equipment. May count either CTCT 7100 or CTCT 7106.

**CTCT 7120 COURSES OF STUDY IN AGRISCIENCE EDUCATION (3)** LEC. 3. Pr. CTCT 5060 or CTCT 6060 or CTCT 5063 or CTCT 6066. Emerging technologies in agriscience education; principles and procedures of curriculum construction applied to courses of study in agriscience education. Departmental approval. May count either CTCT 7120 or CTCT 7126.

**CTCT 7200 CAREER AND OCCUPATIONAL INFORMATION (3)** LEC. 3. Trends and issues in occupational structure, job qualifications and requirements, and sources of occupational information for new and emerging occupations; analysis of career education models for students. Departmental approval. May count either CTCT 7200 or CTCT 7206.

**CTCT 7240 ADMINISTRATIVE MANAGEMENT (3)** LEC. 3. Pr. CTCT 4200 or CTCT 4203. Management of office systems, information and personnel. Managing and controlling administrative services. Departmental approval. May count either CTCT 7240 or CTCT 7246.

**CTCT 7300 INTEGRATING TECHNOLOGY IN CAREER AND TECHNICAL EDUCATION (3)** LEC. 3. Pr. CTCT 5050 or CTCT 6050 or CTCT 5053 or CTCT 6056. Selecting, developing, utilizing, and evaluating instructional resources and technology for teaching. Departmental approval. May count either CTCT 7300 or CTCT 7306.

**CTCT 7400 AGRICULTURAL LITERACY EDUCATION (3)** LEC. 3. Theories and application of agricultural literacy related scientific and technologically based concepts and processes required for personal decision making, participating in civic and cultural affairs, and economic productivity.

**CTCT 7710 ADVANCED TEACHING METHODS (3)** LEC. 3. Pr. (CTCT 5050 or CTCT 5053) or (CTCT 6050 or CTCT 6056). Analysis of research in theories of teaching and learning, effective teacher characteristics, learning styles, teaching methodologies, and diversity in teaching. Departmental approval. May count either CTCT 7710 or CTCT 7716.

**CTCT 7720 ADVANCED PROGRAM PLANNING IN AREA OF SPECIALIZATION (3)** LEC. 3. Pr. CTCT 5060 or CTCT 6060 or CTCT 5063 or CTCT 6066. Issues affecting the development and management of educational programs; strategies for improving educational programs. Departmental approval. May count either CTCT 7720 or CTCT 7726.

**CTCT 7730 PROGRAM EVALUATION (3)** LEC. 3. Pr. (CTCT 7720 or CTCT 7726). Principles and procedures used in evaluating academic- related programs. Alternative approaches to evaluation and practical guidelines for conducting evaluations. Departmental approval. May count either CTCT 7730 or CTCT 7736.

**CTCT 7750 ADMINISTRATION OF CAREER AND TECHNICAL EDUCATION (3)** LEC. 2. LAB. 2. Introduction to concepts, theories and practices related to administration, organizational behavior, and leadership in secondary and post-secondary vocational education programs. Departmental approval. May count either CTCT 7750 or CTCT 7756.

**CTCT 7760 COMPREHENSIVE PLANNING IN CAREER AND TECHNICAL EDUCATION (3)** LEC. 2. LAB. 2. Pr. (CTCT 7750 or CTCT 7756). Processes of comprehensive planning for vocational education programs at high school and secondary school levels using local, state, and regional data. Departmental approval. May count either CTCT 7760 or CTCT 7766.

**CTCT 7770 CLINICAL SUPERVISION (3)** LEC. 3. Pr. (CTCT 7710 or CTCT 7716). Theories, concepts, models, and techniques of student teacher and beginning teacher supervision by administrators, school district personnel, and university supervisors. Recommended for individuals who supervise or plan to supervise student teachers. Departmental approval. May count either CTCT 7770 or CTCT 7776.

**CTCT 7780 RESEARCH IN CAREER AND TECHNICAL EDUCATION (3)** LEC. 3. Review, analysis and interpretation of research procedures and data with emphasis on designing new research in vocational and adult education. Departmental approval. May count either CTCT 7780 or CTCT 7786.

**CTCT 7810 SUPERVISED COLLEGE TEACHING (1)** LEC. 1. SU. Departmental approval. Practical experience in the classroom under the supervision of a faculty mentor. Course may be repeated for a maximum of 2 credit hours.

**CTCT 7900 DIRECTED STUDIES (1-3)** DAG. SU. Departmental approval. Independent learning effort directed toward desired objectives. Includes evaluation at regular intervals by student and professor. Course may be repeated for a maximum of 3 credit hours.

**CTCT 7910 PRACTICUM IN AREA OF SPECIALIZATION (1-3)** DAG. SU. Departmental approval. Experiences closely relating theory and practice. Course may be repeated for a maximum of 3 credit hours.

**CTCT 7920 CLINICAL RESIDENCY (9-12)** AAB. 40. SU. Admission to Clinical Residency. Supervised internship experiences in a school, college or other appropriate setting. Evaluation and analysis of the internship experience. Departmental approval. May count either CTCT 7920 or CTCT 7926. Course may be repeated for a maximum of 12 credit hours.

**CTCT 7950 SEMINAR IN AREA OF SPECIALIZATION (1-3)** DBU/SEM. SU. Departmental approval. Presentation by graduate students of research projects and/or findings. Analysis of procedures and findings. Course may be repeated for a maximum of 3 credit hours.

**CTCT 7960 SPECIAL PROBLEMS (1-3)** IND. Departmental approval. Critical analysis of current and classical research and writings. Course may be repeated for a maximum of 3 credit hours.

**CTCT 7970 SPECIAL TOPICS IN AREA OF SPECIALIZATION (1-6)** DAG. Departmental approval. Current or advanced topics within area of specialization. Course may be repeated for a maximum of 6 credit hours.

**CTCT 7990 RESEARCH AND THESIS (1-10)** MST. Course may be repeated for a maximum of 10 credit hours.

**CTCT 8730 CURRICULUM DEVELOPMENT IN CAREER AND TECHNICAL EDUCATION (3)** LEC. 3. Pr. CTCT 7730 or CTCT 7736. Principles of career and technical education curriculum planning, identification of educational needs of students, selecting technical content, and evaluating materials. May count either CTCT 8730 or CTCT 8736.

**CTCT 8770 SUPERVISION OF INSTRUCTION (3)** LEC. 3. Pr. CTCT 7770 or CTCT 7776. Theories and models to become effective supervisors of vocational and adult education programs; philosophies and styles of supervision used to improve schools, instruction, curriculum and personnel. Departmental approval. May count either CTCT 8870 or CTCT 8876.

**CTCT 8800 TEACHER EDUCATION (3)** LEC. 3. Emphasis on beliefs, philosophy, issues, research, roles, student selection, curriculum, methodology, internships, organization, and administration of teacher education programs. Departmental approval. May count either CTCT 8800 or CTCT 8806.

**CTCT 8810 SUPERVISED COLLEGE TEACHING (1-10)** LEC. 3. SU. Practical experience in the classroom under the supervision of a faculty mentor. Course may be repeated for a maximum of 10 credit hours.

**CTCT 8900 DIRECTED STUDIES (1-6)** IND. SU. Departmental approval. Independent learning efforts at desired objectives. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

**CTCT 8910 PRACTICUM IN AREA OF SPECIALIZATION (1-6)** DSL/PRA. SU. Departmental approval. Experiences closely relating theory and practice. Course may be repeated for a maximum of 6 credit hours.

**CTCT 8920 INTERNSHIP (1-10)** INT. SU. Departmental approval. Supervised internship experiences in a school, college or other appropriate setting. Evaluation and analysis of the internship experience. Course may be repeated for a maximum of 10 credit hours.

**CTCT 8950 SEMINAR IN AREA OF SPECIALIZATION (1-6)** DSL/SEM. Departmental approval. Selected concepts and theoretical formulations of common interest. Course may be repeated for a maximum of 6 credit hours.

**CTCT 8960 SPECIAL PROBLEMS (1-6)** DSL/IND. Departmental approval. Critical analysis of current and classical research and writings. Course may be repeated for a maximum of 6 credit hours.

**CTCT 8970 SPECIAL TOPICS IN AREA OF SPECIALIZATION (1-6)** DSL. Departmental approval. Current or advanced topics within area of specialization. Course may be repeated for a maximum of 6 credit hours.

**CTCT 8980 FIELD PROJECT (1-10)** DAG. 1. SU. Departmental approval. Field project. Course may be repeated for a maximum of 10 credit hours.

**CTCT 8990 RESEARCH AND DISSERTATION (1-10)** DSL/DSR. Course may be repeated for a maximum of 20 credit hours.