

## TRANSCRIPTED CREDIT COURSE MENU - 2025-2026

High school instructor minimum qualifications are outlined below. For General Studies courses, all HLC requirements must be met by 9/1/2026. High School Teachers with an experiential based licensure will need to submit a resume for review by NWTC to substitute for the DPI licensures outlined for each course. Comparable Michigan licensures will be allowable for Michigan schools.

Updated 11-4-2024

NWTC Course	Course Description	NWTC and Higher Learning Commission (HLC) Teacher Training Requirements	Required Face to Face Instruction	Career Cluster
<b>Accounting I</b> Credit Value 4 <b>Grade Level 9-12</b>	<b>10-101-110 ACCOUNTING 1</b> ...accounting principles, financial statements, business transactions, accounting cycles/systems, specialized journals, accounting for cash and receivables for sole proprietorships in service or merchandising businesses.	DPI License 250 Business Education, 281 Business and Office-Voc	60	Finance
<b>Agribusiness Economics</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-090-303 AGRIBUSINESS ECONOMICS</b> ...basic knowledge of macro and micro economics will be taught, proficiency in developing basic cash flows, cost benefit analysis, enterprise analysis, budget development, profit loss statements and developing cost of production. Student should be able to develop adequate information for farm manager to analyze business proposals.	DPI License 200 Agriculture	45	Agriculture, Food and Natural Resources
<b>Aquaculture/Aquaponics</b> Credit Value 2 <b>Grade Level 9-12</b>	<b>10-090-115 AQUACULTURE/AQUAPONICS</b> ...investigate hydroponic plant growing and fish farming operations; designs, suitable species, maintenance, costs efficiencies and yields. Plan a system, develop a budget, explore markets, trends, and analyze benefits and obstacles in this business.	DPI License 200 Agriculture, Completion of Train the Trainer prior to teaching.	30	Agriculture, Food and Natural Resources
<b>Automation 1 : Control Logic</b> Credit Value 1 <b>Grade Level 10-12</b>	<b>10-664-100 AUTOMATION 1 - CONTROL LOGIC</b> ...Electric motor control components such as switches, relays, starters, transformers; and safely mount and install motor and motor control components and perform related wiring and troubleshooting of motor control circuits.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>Automation 2: Motor Control</b> Credit Value 1 <b>Grade Level 10-12</b>	<b>10-664-101 AUTOMATION 2 - MOTOR CONTROL</b> ...Electric motor control components such as sensors, timers and counters.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>Automotive Service Fundamentals</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>10-602-107 AUTOMOTIVE SERVICE FUNDAMENTALS</b> ...safety and the use of basic hand/power tools in accordance with industry standards. Introduced to the automotive service industry and learn to use both comprehensive and manufacturer's service information to perform basic under-hood and under-car services.	DPI License 220 Technical Education, Completion of Train the Trainer prior to teaching. Prior experience working in an automotive shop is required.	30	Transportation, Distribution, and Logistics
<b>Basic Anatomy</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-806-189 BASIC ANATOMY</b> ...examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems.	Science related DPI License and Master's degree in Anatomy & Physiology or a master's degree with at least 18 graduate credits in a combination of the qualifying subfields that provide a foundation in the specific subject matter being taught.  If the Master's Degree is in in a related subfield, the transcripts must identify at least 9 graduate credits in Anatomy & Physiology (i.e., the instructional discipline) and another 9 graduate credits in the related discipline.	45	Science, Technology, Engineering and Math
<b>Basic Mechanics</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-620-144 BASIC MECHANICS</b> ...Introduction to basic mechanical devices and tools used for assembly, disassembly and adjustment.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>Beekeeping &amp; Pollinators</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>10-090-118 BEEKEEPING &amp; POLLINATORS</b> ...bees pollinate our crops and orchards; they are an environmental quality indicator species and they provide honey. Explore beekeeping using onsite hives; explore pollinators and habitats, and network with local beekeepers.	DPI License 200 Agriculture, Completion of Train the Trainer prior to teaching.	15	Agriculture, Food and Natural Resources
<b>BIM Architectural 1</b> Credit Value 2 <b>Grade Level 10-12</b>	<b>10-614-216 BIM ARCHITECTURAL 1</b> ...incorporates the use of Revit for building information modeling. Basic to intermediate modeling and documentation tools will be explored. Simple building information models will be generated, edited, and documented.	DPI License 220 Technical Education, Completion of Train the Trainer prior to teaching.	60	Architecture and Construction
<b>Building Codes - Carpentry</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>10-410-108 BUILDING CODES - CARPENTRY</b> ... the basic requirements for the erection of buildings inhabited by the public for living, work and pleasure.	DPI License 220 Technical Education, Completion of Train the Trainer prior to teaching. Prior experience interpreting the Uniform Building Code is highly recommended.	15	Architecture and Construction
<b>Business - Principles</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-102-158 BUSINESS PRINCIPLES</b> ...economics and business; global business; ethics and social responsibility; types of business ownership; entrepreneurship; role of management: operations management; human resources; marketing; managing financial resources and legal issues impacting business.	DPI License 250 Business Education or 281 Business and Office-Voc	45	Business, Management and Administration

<b>Business Law</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-102-150 BUSINESS LAW</b> ...common law contracts and sales contracts: formation, interpretation, performance, and discharge; the law of agency; corporations; and introduction to the American legal system: criminal and tort law, and global business issues.	DPI License 250 Business Education or 281 Business and Office-Voc	45	Business, Management and Administration
<b>CAD Intro</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>10-606-116 CAD (COMPUTER AIDED DRAFTING)-INTRODUCTION</b> ...CAD terminology, drawing preliminaries, basic inquiry and setting commands, layer setting and manipulation, basic drawing and display commands, basic edit commands, and plotting, using AutoCAD software.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Architecture and Construction
<b>Career Planning</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-105-101 CAREER PLANNING</b> ...experiential learning introduction. Learn how personal branding allows candidates to differentiate themselves from the competition through appearance, personality, and marketing competency. Career portfolio introduced.	DPI License 250 Business Education, 281 Business and Office-Voc, 285 Marketing Education, and earned "B" or better in Train the Trainer course	15	Business, Management and Administration
<b>CNC Milling and G-Code</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>31-420-363 CNC MILLING AND G-CODE</b> ...shop safety around CNC milling machines, CNC basics, Cartesian coordinate systems, CNC milling controls and preparing basic G-Code milling programs.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	60	Manufacturing
<b>College Tech Math 1A</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-804-113 COLLEGE TECHNICAL MATH 1A</b> ...topics include solving linear equations; graphing; percent; proportions; measurement systems; computational geometry; and right triangle trigonometry. Emphasis will be on the application of skills to technical problems.	Math related DPI License and Master's Degree in Mathematics, Engineering, or Physics OR a Master's and 18 graduate level credits in Mathematics	45	Science, Technology, Engineering and Math
<b>College Tech Math 1B</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>10-804-114 COLLEGE TECHNICAL MATH 1B</b> ...topics include: performing operations on polynomials; solving quadratic and rational equations; formula rearrangement; solving systems of equations; and oblique triangle trigonometry. Emphasis will be on the application of skills to technical problems. ( <b>Prerequisite: 10-804-113 College Tech Math 1A with a "C" or better</b> ).	Math related DPI License and Master's Degree in Mathematics, Engineering, or Physics OR a Master's and 18 graduate level credits in Mathematics	30	Science, Technology, Engineering and Math
<b>Construction Blueprint Reading 1</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>10-410-110 CONSTRUCTION BLUEPRINT READING 1</b> ...the carpentry profession, tools of the trade, job site etiquette and safety, carpentry math, and fundamentals of construction blueprint reading.	DPI License 220 Technical Education, Completion of Train the Trainer prior to teaching.	30	Architecture and Construction
<b>Courts/Jurisdiction</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-504-132 COURTS/JURISDICTION</b> ...Development of the American judicial system, the federal and Wisconsin court structure, Wisconsin judicial rules and procedures from complaint to sentencing as they impact police or correctional officers.	DPI License in 745 Sociology or 701 Broadfield Social Studies and minimum of 20 semester credits drawn from the recognized social science disciplines of Psychology, Sociology, Political Science, Economics, History, Anthropology, Geography, or Philosophy.	45	Law, Public Safety and Security
<b>Contemporary Healthcare Practices</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>10-501-104 CONTEMPORARY HEALTHCARE PRACTICES</b> ...prepares learners to work in the healthcare environment as part of a healthcare team. Learners will investigate the healthcare community, patient privacy standards, and the professional behavior that is expected in today's medical community. Learner will examine various aspects of verbal and written communication skills, customer service principles, and problem solving techniques necessary to be a vital member of the healthcare workforce.	DPI License in Health, 210 Family and Consumer Education, and earned "B" or better in NWTC course.	30	Health Sciences
<b>Customer Experience</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-104-191 CUSTOMER EXPERIENCE</b> ...examine customer service culture, develop communication and listening skills, explore diversity in the workplace, develop skills for handling challenging customers, and explore the impact of technology on customer service and engagement.	DPI License 250 Business Education, 281 Business and Office-Voc, 275 Basic Business Ed, or 285 Marketing Education.	45	Marketing, Sales and Service
<b>DC1: Introduction</b> Credit Value 1 <b>Grade Level 10-12</b>	<b>10-660-104 DC 1: INTRODUCTION</b> ...introduction to the concepts of DC electricity and simple series circuits. Voltage, current, resistance, Ohm's Law, power and Kirchoff's Voltage Law are defined.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>Developmental Psychology</b> Credit Value 3 <b>Grade Level 10-12</b>	<b>10-809-188 DEVELOPMENTAL PSYCHOLOGY</b> ...defines human development; examines theories; heredity and environmental effects; prenatal development and birth; evaluates biosocial, cognitive psychosocial development through the life span; aging, death, and dying.	Related DPI License and Master's degree in Psychology or master's degree with at least 18 graduate credits in a combination of the qualifying fields that provide a foundation in the specific subject matter being taught.	45	Liberal Arts and Sciences
<b>Diesel Service Fundamentals</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>10-412-101 DIESEL SERVICE FUNDAMENTALS</b> ...introduces diesel shop environment, safety, the use of manufacturer's service information and literature, handling hazardous materials, emphasizes general shop safety and general shop practices, basic equipment operation, rigging and lifting, hazardous material handling procedures, resume development, mock interviewing, and exploring industry career pathways.	DPI License 220 Technical Education, Completion of Train the Trainer prior to teaching.. Prior experience working in a diesel shop is required.	30	Transportation, Distribution, and Logistics
<b>Digital Literacy for Healthcare</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>10-501-107 DIGITAL LITERACY FOR HEALTHCARE</b> ...the course will explore the use of the electronic health record, the role of social media in health care communication, the uses of wearable technologies that monitor activity and heart rate, the use of data to manage population health and the impact of new developments on the healthcare workforce.	DPI License in Health, 210 Family and Consumer Education, and earned "B" or better in NWTC course.	30	Health Sciences
<b>ECE: Child Development</b> Credit Value 3 <b>Grade Level 10-12</b>	<b>10-307-179 ECE: CHILD DEVELOPMENT</b> ...child development in the early childhood education setting. Social, cultural, and economic influences on child development; child development theories; development of children age three to eight; child development research; heredity and environment.	DPI License 210 Family and Consumer Education, WTCS Certification for Early Childhood Education preferred, and completion of NWTC course with "B" grade or better.	45	Education and Training
<b>ECE: Foundations of Early Childhood</b> Credit Value 3 <b>Grade Level 10-12</b>	<b>10-307-148 ECE: FOUNDATIONS OF EARLY CHILDHOOD</b> ... integrate strategies that support diversity and anti-bias perspectives; summarize early childhood education settings; identify components of a quality program; summarize responsibilities of early childhood professionals; explore early childhood curriculum models.	DPI License 210 Family and Consumer Education, WTCS Certification for Early Childhood Education preferred, and completion of NWTC course with "B" grade or better.	45	Education and Training

<b>ECE: Health Safety &amp; Nutrition Course</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-307-167 ECE: HEALTH/SAFETY/NUTRITION</b> ...health, safety, and nutrition in early childhood settings. Anti-bias perspectives; governmental regulations and professional standards; safe, healthy, and nutritionally sound early childhood programs; child abuse/neglect mandates; SIDS risk reduction; Shaken Baby Syndrome.	DPI License 210 Family and Consumer Education, WTCS Certification for Early Childhood Education preferred, and completion of NWTC course with "B" grade or better.	45	Education and Training
<b>ECE: Infant &amp; Toddler Development</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-307-151 ECE: INFANT/TODDLER DEVELOPMENT</b> ...infant and toddler development in an early childhood education setting. Development of infants/toddlers; prenatal conditions and development; child development theories; heredity and the environment; culturally and developmentally appropriate environments.	DPI License 210 Family and Consumer Education, WTCS Certification for Early Childhood Education preferred, and completion of NWTC course with "B" grade or better.	45	Education and Training
<b>ECE: Social Studies, Art &amp; Muisic</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-307-110 ECE: SOCIAL STUDIES, ART &amp; MUSIC</b> ...This 3-credit course will focus on beginning level curriculum development in the specific integrated content areas of social studies, art, music, & movement (SSAMM).	DPI License 210 Family and Consumer Education, WTCS Certification for Early Childhood Education preferred, and completion of NWTC course with "B" grade or better.	45	Education and Training
<b>EDU: Child and Adolescent Development</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-522-106 EDU: CHILD &amp; ADOLESCENT DEVELOPMENT</b> ...growth and development birth through adolescence. Acquaints the learner with the fundamental tasks of physical, motor, perceptual, cognitive social/emotional and language development.	DPI License 210 Family and Consumer Education	45	Education and Training
<b>EDU: Intro to Educational Practices</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-522-103 EDU: INTRODUCTION TO EDUCATIONAL PRACTICES</b> ...fundamentals of teaching methodologies, history of education, issues in trends, learning styles, instructional cycle, characteristics of diverse classroom, questioning techniques and assessment practices.	DPI License 210 Family and Consumer Education	45	Education and Training
<b>EDU: Technology in Education</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-522-104 EDU: TECHNOLOGY IN EDUCATION</b> ...students develop the knowledge and skills to use trending classroom technologies and gain experience creating and using web tools including portfolios. Students create presentations for educational environments and identify ISTE Standards.	DPI License 210 Family and Consumer Education	45	Education and Training
<b>English Composition 1</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-801-136 ENGLISH COMPOSITION 1</b> ...learners develop knowledge/skills in planning, organizing, writing, editing. Students will also analyze audience/purpose, use elements of research, format documents using standard guidelines, and develop critical reading skills.	Related DPI License and Master's degree in English or master's degree with at least 18 graduate credits in a combination of the qualifying fields that provide a foundation in the specific subject matter being taught.	45	Liberal Arts and Sciences
<b>Floor Framing Systems</b> - requires project Credit Value 3 <b>Grade Level 11-12</b>	<b>10-410-104 FLOOR FRAMING SYSTEMS</b> ...this course teaches all aspects of floor construction and flooring system construction.	DPI License 220 Technical Education, Completion of Train the Trainer prior to teaching., and meeting NWTC FQAS Carpentry instructor qualifications required (contact NWTC Associate Dean, Construction, for details).	90	Architecture and Construction
<b>Fluids 1: Basic Pneumatics</b> Credit Value 1 <b>Grade Level 10-12</b>	<b>10-620-100 FLUIDS 1: BASIC PNEUMATICS</b> ...what fluid power is, differentiate between hydraulics and pneumatics, implement basic pneumatic circuits, utilize schematics, apply Pascal's Law, define properties of fluids, implement airflow control and hydraulics cylinder circuits.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>Flux Cored Arc Welding 1</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>31-442-329 FLUX CORED ARC WELDING 1</b> ...Course provides the opportunity for the learner to develop the knowledge, skills, process and understanding of surfacing welds in the flat position as well as fillet and groove welds in the flat, horizontal position using gas shielded flux cored arc welding.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>Gas Metal Arc Welding 1</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>31-442-348 GAS METAL ARC WELDING</b> ...course provides the opportunity for the learner to develop the knowledge, skills, process and understanding of welding in the flat and horizontal positions, fillet, pipe to plate and groove welds on plain carbon steel.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>Gas Tungsten Arc Welding 1</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>31-442-359 GAS TUNGSTEN ARC WELDING 1</b> ...Course provides the opportunity for the learner to develop the knowledge, skills, process and understanding of GTAW equipment set-up as well as the basic skills needed to make welds on plain carbon steel. Weld quality will be discussed but this course is only used to understand the basics of the GTAW process.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>G-Code and Cam</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>31-420-364 G-CODE AND CAM</b> ...learn basic programming with computer-aided manufacturing (CAM) software, along with G-and M-code programming of computer numerically controlled (CNC) milling and turning machines.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	60	Manufacturing
<b>General Anatomy &amp; Physiology</b> Credit Value 4 <b>Grade Level 11-12</b>	<b>10-806-177 GENERAL ANATOMY &amp; PHYSIOLOGY</b> ...overview of the human anatomy/physiology using a body-systems approach, emphasizing the interrelationships between form/function at the gross and microscopic levels. <b>(Prerequisite: 10-806-134, Chemistry-Basic, OR High School Lab Chemistry with a "C" or better).</b>	Science related DPI License and Master's degree in Anatomy & Physiology or a master's degree with at least 18 graduate credits in a combination of the qualifying subfields that provide a foundation in the specific subject matter being taught.  If the Master's Degree is in a related subfield, the transcripts must identify at least 9 graduate credits in Anatomy & Physiology (i.e., the instructional discipline) and another 9 graduate credits in the related discipline.  NWTC course completion with a "B" grade or better.	75	Science, Technology, Engineering and Math
<b>General Chemistry</b> Credit Value 4 <b>Grade Level 10-12</b>	<b>10-806-134 GENERAL CHEMISTRY</b> ...covers chemistry fundamentals. Topics: metric system, problem-solving, periodic relationships, chemical reactions, chemical equilibrium, properties of water; acids, bases, and salts; and gas laws.	Science related DPI License and Master's degree in Chemistry or master's degree with at least 18 graduate credits in a combination of the qualifying fields that provide a foundation in the specific subject matter being taught.	75	Science, Technology, Engineering and Math



<b>General Physics 1</b> Credit Value 4 <b>Grade Level 11-12</b>	<b>10-806-154 GENERAL PHYSICS I</b> . . . Applications/theory of basic physics principles: problem solving, laboratory investigation, and applications including unit conversion and analysis, vectors, translational and rotational kinematics/dynamics, heat/temperatie, and harmonic motion and waves.	Science related DPI License and Master's degree in Physics or if the Master's Degree is in in a related subfield, the transcripts must identify at least 9 graduate credits in Physics (i.e., the instructional discipline) and another 9 graduate credits in the related discipline.	75	Science, Technology, Engineering and Math
<b>Illustrator Fundamentals</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-111-161 ILLUSTRATOR FUNDAMENTALS</b> ...develop basic knowledge and skills using digital illustration software (i.e. Adobe Illustrator), apply vector graphic strategies into graphic design medias and integration into other software packages. Course content covers creating basic shapes, drawing, transforming elements, working with type, blending, layers and special effects.	DPI License 250 Business Education, 285 Marketing Education, Art Education 550, Technical Education 220 and Adobe Creative Suite Experience	60	Arts, Audiovisual Technology and Communication
<b>Interm Algebra with Applications</b> Credit Value 4 <b>Grade Level 11-12</b>	<b>10-804-118 INTERM ALGEBRA WITH APPLICATIONS</b> . . . Algebra content with application. Topics include properties of real numbers, orders of operations, algebraic solution for linear equations and inequalities, operations with polynomial and rational expressions, operations with rational exponents and radicals, algebra of inverse, logarithmic and exponential functions.	Math related DPI License and Master's degree in Mathematics or master's degree with at least 18 graduate credits in a combination of the qualifying fields that provide a foundation in the specific subject matter being taught.	60	Science, Technology, Engineering and Math
<b>Intro to American Government</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-809-122 INTRO TO AMER GOVERNMENT</b> ...introduces American political processes and institutions: focusing on rights/responsibilities of citizens and the process of participatory democracy. Examines separation of powers and checks/balances & the roles of different groups.	Related DPI License and Master's Degree in Political Science or History OR Master's degree with 18 graduate credits in any combination of Political Science and/or History.	45	Liberal Arts and Sciences
<b>Intro to Cybersecurity</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-151-100 INTRO TO CYBERSECURITY</b> ...learners will develop an understanding of cybersecurity methods, terms, and key technical concepts to identify and protect assets against attacks.	DPI License 250 Business Education, 281 Business and Office-Voc, 275 Basic Business Ed, 285 Marketing Education, 405 Computer Science or 400 Math and "B" or better in Train the Trainer course.	15	Information Technology
<b>Intro to Dairy Science</b> Credit Value 3 <b>Grade Level 10-12</b>	<b>10-090-326 INTRO TO DAIRY SCIENCE</b> ...this course provides basic knowledge of the dairy science field. Topics include animal health, anatomy and physiology, genetics and reproduction, basic breed characteristics and animal feedstuffs.	DPI License 200 Agriculture, Completion of Train the Trainer prior to teaching.	45	Agriculture, Food and Natural Resources
<b>Intro to Diversity Studies</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-809-172 INTRO TO DIVERSITY STUDIES</b> ...basic American values of justice and equality by teaching vocabulary, history of immigration/conquest, transcultural communication, legal liability, multicultural majority/minority relations, ageism, sexism, gender, sexual orientation, the disabled/ADA.	Related DPI License and Master's degree in Sociology or master's degree with at least 18 graduate credits in a combination of the qualifying fields that provide a foundation in the specific subject matter being taught.	45	Liberal Arts and Sciences
<b>Intro to Environmental Science</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-506-146 INTRO TO ENVIRONMENTAL SCIENCE</b> ...an introduction to the basic principles of environmental science including ecology, energy, resources, waste management, air, water, and soil pollution.	DPI License 606 Life and Environmental Science or 615 Environmental Studies Minimum of 20 semester credits drawn from the recognized science disciplines of Biology, Chemistry, Earth Science, or Physics, with a minimum of 12 credits in Chemistry.	45	Science, Technology, Engineering and Math
<b>Intro to Psychology</b> Credit Value 3 <b>Grade Level 10-12</b>	<b>10-809-198 INTRODUCTION TO PSYCHOLOGY</b> ...survey of theoretical foundations of human behavior such as sensation and perception, motivation, emotions, learning, personality, psychological disorders, therapy, stress, and human diversity in personal, social and vocational settings.	Related DPI License and Master's degree in Psychology or master's degree with at least 18 graduate credits in a combination of the qualifying fields that provide a foundation in the specific subject matter being taught.	45	Liberal Arts and Sciences
<b>Intro to Sociology</b> Credit Value 3 <b>Grade Level 10-12</b>	<b>10-809-196 INTRODUCTION TO SOCIOLOGY</b> ...the nature and variety of groups; inequality, race and ethnicity; family, population, social integration, and change; collective behavior; politics, economics, religion, education, and the effects of technology.	Related DPI License and Master's degree in Sociology or master's degree with at least 18 graduate credits in a combination of the qualifying fields that provide a foundation in the specific subject matter being taught.	45	Liberal Arts and Sciences
<b>Introduction to Human Services</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-520-101 INTRODUCTION TO HUMAN SERVICES</b> ...Examine the evolution of the human services field. Distinguish the various types of human service agencies and occupations available in the field. Demonstrate the qualities of the field professionals. Complete 10 hours of community service at an agency of learner's choice outside of class time. Assess boundaries and ethical issues commonly found in the human services profession. Apply reflective practitioner techniques.	DPI License in 745 Sociology or 701 Broadfield Social Studies and minimum of 20 semester credits drawn from the recognized social science disciplines of Psychology, Sociology, Political Science, Economics, History, Anthropology, Geography, or Philosophy.	45	Human Services/Education
<b>Introduction to Law Enforcement</b> Credit Value 3 <b>Grade Level 10-12</b>	<b>10-504-194 INTRODUCTION TO LAW ENFORCEMENT</b> ...in this course, learners will discover the history and evolution of policing and explore thought-provoking issues that underscore the challenging and rewarding world of policing. Learners will examine the role of law enforcement in a democratic society, covering concepts such as law enforcement services; crime deterrence; discretion, and the expanded role of today's police officers. This course will also explore evolving law enforcement strategies and attitudes that build effective law enforcement and community relationships including the use of problem-oriented policing. Learners will also consider how professional law enforcement officers work in conjunction with the courts, corrections and other agencies to administer criminal justice in Wisconsin.	DPI License in 745 Sociology or 701 Broadfield Social Studies and minimum of 20 semester credits drawn from the recognized social science disciplines of Psychology, Sociology, Political Science, Economics, History, Anthropology, Geography, or Philosophy.	45	Law, Public Safety and Security
<b>Marketing Principles</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-104-110 MARKETING PRINCIPLES</b> ...marketing management, market segmentation, market research, consumer behavior, product decisions and management of distribution, pricing, promotional decisions for strategy planning.	DPI License 250 Business Education, 285 Marketing Education	45	Marketing, Sales and Service

<b>Mathematical Reasoning</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-804-134 MATHEMATICAL REASONING</b> ...This course provides an alternative pathway to earning credit for a college level liberal arts mathematics course. All college students, regardless of their college major, need to be able to make reasonable decisions about fiscal, environmental, and health issues that require quantitative reasoning skills. An activity based approach is used to explore numerical relationships, graphs, proportional relationships, algebraic reasoning, and problem solving using linear, exponential and other mathematical models. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. This course is not designed for Science, Technology, Engineering, or Math (STEM) students and/or others who require calculus.	DPI License 400 and Master's degree in Mathematics or master's degree with at least 18 graduate credits in a combination of the qualifying fields that provide a foundation in the specific subject matter being taught.	45	Science, Technology, Engineering and Math
<b>Mechanical Design-Exploring</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-606-111 MECHANICAL DESIGN EXPLORING</b> ...philosophy/organization/procedure of the Mechanical Design Technology Program, brief overview of the engineering profession by involvement in a design project to illustrate basic concepts/methods of machine design.	DPI License 220 Technical Education.	30	Science, Technology, Engineering and Math
<b>Medical Terminology</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-501-101 MEDICAL TERMINOLOGY</b> ...focuses on the component parts of medical terms: Prefixes, suffixes, and root words. Students practice formation, analysis and reconstruction of terms. Emphasis on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology.	DPI License 605 Biology/Life Science; 210,211,213 or 214 F/CS (with biology and/or anatomy/physiology) - transcript review and completion of NWTC course with a "B" grade or better	45	Health Sciences
<b>MS Excel Intro</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-103-131 MS EXCEL INTRO</b> ...creating worksheets, enhancing worksheet appearance, moving data between worksheets and workbooks, using formulas and functions, creating charts and using clip art. Windows experience improves success.	DPI License 250 Business Education, 281 Business and Office-Voc, 275 Basic Business Ed	30	Business, Management and Administration
<b>MS Excel Part 2</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-103-132 MS EXCEL PART 2</b> ...covers advanced formatting techniques and functions, working with templates, collaborating with multiple Excel users, creating macros, Excel's database features and analysis tools. (Corequisite: 10-103-131, MS Excel Intro)	DPI License 250 Business Education, 281 Business and Office-Voc, 275 Basic Business Ed	30	Business, Management and Administration
<b>MS Outlook</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-103-161 MS OUTLOOK</b> ...create and organize E-mail, schedule meetings, create tasks, and manage contacts.	DPI License 250 Business Education, 281 Business and Office-Voc, 275 Basic Business Ed	30	Business, Management and Administration
<b>MS PowerPoint</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-103-151 MS POWERPOINT</b> ...presentation skills using: graphics, diagrams, design themes, sounds, animations, slide transitions, and integration with other software. Windows experience improves success. (Corequisite: 10-103-121, MS Word Intro)	DPI License 250 Business Education, 281 Business and Office-Voc, 275 Basic Business Ed	30	Business, Management and Administration
<b>MS Word Intro</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-103-121 MS WORD INTRO</b> ... word processing basics including creating, revising, formatting, printing; sections, tabs, multiple-page numbering; manipulating text; creating headers/footers; creating/formatting tables, graphics; and merging documents.	DPI License 250 Business Education, 281 Business and Office-Voc, 275 Basic Business Ed	30	Business, Management and Administration
<b>Nutrition</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-316-128 NUTRITION</b> ...focuses on the major nutrients (carbohydrates, proteins, fats, minerals, vitamins and water) in the planning of well-balanced diets and the nutritional analysis of well-balanced diets.	DPI License 210, 211 in F/CS and completion of NWTC Course with a "B" or better.	15	Hospitality & Tourism
<b>Oral/Interpersonal Communications</b> Credit Value 3 <b>Grade Level 10-12</b>	<b>10-801-196 ORAL/INTERPERSONAL COMMUNICATION</b> ...the communication process, perception and self-concept, language, listening, nonverbal communication, interpersonal relationships, communication in groups and public communication; prepare and deliver an oral presentation.	Related DPI License and Master's degree in English/Communications or master's degree with at least 18 graduate credits in a combination of the qualifying fields that provide a foundation in the specific subject matter being taught.	45	Liberal Arts and Sciences
<b>Organic Livestock Practices</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>10-090-120 ORGANIC LIVESTOCK PRACTICES</b> ... How do organic farmers manage livestock successfully? Principles covered include organic health care, strategies for reproduction, feeding, housing, and young stock. Review rules and organic certification standards.	DPI License 200 Agriculture, Completion of Train the Trainer prior to teaching.	30	Agriculture, Food and Natural Resources
<b>Personal Wellness &amp; Fitness</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-546-101 PERSONAL WELLNESS &amp; FITNESS</b> ... This course introduces the seven-dimension model of wellness. Learners will apply the seven dimensions of wellness to develop and implement a personal wellness plan.	DPI License 910 Health or 530 Physical Education with a minimum of a bachelor's degree in Wellness, Exercise Science, or Physical Education	60	Education and Training
<b>Photography- Digital</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-203-104 PHOTOGRAPHY-DIGITAL</b> ...capturing digital images, exposure, shutter speed, aperture, composition, camera operations, lenses, lighting, camera accessories, types of photography, photo challenges, importing, editing and storing images. Access to a digital camera required.	DPI License 250 Business Education, 285 Marketing Education , 550 Art Education, 220 Technical Education and Adobe Creative Suite Experience.	60	Arts, Audiovisual Technology and Communication
<b>Photoshop Fundamentals</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-111-101 PHOTOSHOP FUNDAMENTALS</b> ...perform raster Image Editing. Course content covers functions of Adobe Photoshop. Create image selections, extractions and composite files using Adobe software, and apply common photo adjustments using fundamental design solutions, creating composite images.	DPI License 250 Business Education, 285 Marketing Education , 550 Art Education, 220 Technical Education and Adobe Creative Suite Experience.	60	Arts, Audiovisual Technology and Communication
<b>Principles of Civil Engineering</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-607-103 PRINCIPLES OF CIVIL ENGINEERING</b> ...provides fundamentals of Civil Engineering from concept to completion. Civil Engineering ethics, resume and portfolio creation, and Microsoft Word and Excel will also be introduced.	DPI License 220 Technical Education, Completion of Train the Trainer prior to teaching.	60	Science, Technology, Engineering and Math

<b>Principles of Sanitation</b> Credit Value 1 <b>Grade Level 9-12</b>	<b>10-316-118 PRINCIPLES OF SANITATION</b> ...food service sanitation principles of contamination/food borne illness with National Restaurant Association ServSafe Certification upon successful completion.	DPI License 210, 211 in F/CS and completion of NWTC Course with a "B" or better.	15	Hospitality & Tourism
<b>Renewable Energy and Sustainability</b> Credit Value 4 <b>Grade Level 10-12</b>	<b>10-480-101 RENEWABLE ENERGY AND SUSTAINABILITY</b> ...an overview of various renewable energy technologies and sustainable design practices and their current applications. Emphasis will be placed on energy consumption, efficiency, and conservation.	DPI License 606 Life and Environmental Science or 615 Environmental Studies or DPI License 220 Technical Education	60	Agriculture, Food and Natural Resources
<b>Robotics - Introduction to</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>10-620-170 ROBOTICS - INTRODUCTION TO</b> ...Introductory study of the application, operation, programming and troubleshooting of industrial robots.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>Safety Devices and Application</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>10-664-170 SAFETY DEVICES AND APPLICATIONS</b> ...introduction to the function of commonly used machinery safety devices, wiring of these devices to complete safety circuits, overview of safety system design.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>Shielded Metal Arc Welding 1</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>31-442-342 SHIELDED METAL ARC WELDING 1</b> ...course provides the opportunity for the learner to develop the knowledge, skills, process and understanding of surfacing welds in the flat position, fillet and groove welds on plain carbon steel.	DPI License 220 Technical Education or 292 Technical Occ-Mfg, Completion of Train the Trainer prior to teaching.	30	Manufacturing
<b>Solidworks Fundamentals</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>10-606-160 SOLIDWORKS FUNDAMENTALS</b> ...introduces terminology; software operation and interface layout. It also exposes the student to creating basic models, assemblies & using the drawing environment.	DPI License 220 Technical Education, Completion of Train the Trainer prior to teaching.	30	Architecture and Construction
<b>Solidworks Intermediate</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>10-606-106 SOLIDWORKS INTERMEDIATE</b> ...introduces using intermediate features such as patterns, revolve, and sweep. Students learn how to measure center of gravity on assemblies and to create completely dimensioned orthographic drawings. <b>(Prerequisite: 10-606-160, Solidworks Fundamentals)</b>	DPI License 220 Technical Education, Completion of Train the Trainer prior to teaching.	60	Architecture and Construction
<b>Stress Management Techniques</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>10-546-107 STRESS MANAGEMENT TECHNIQUES</b> ... Understand the effects of stress on personal well-being. Learn, assess, and apply stress management techniques (relaxation, guided imagery, deep breathing techniques, and other holistic methods) for personal and client utilization.	DPI License 910 Health or 530 Physical Education with a minimum of a bachelor's degree in Wellness, Exercise Science, or Physical Education	30	Education and Training
<b>Sustainable AG: Issues &amp; Practices</b> Credit Value 2 <b>Grade Level 11-12</b>	<b>10-090-111 SUSTAINABLE AG: ISSUES &amp; PRACTICES</b> ...use critical thinking skills to compare organic and sustainable agricultural practices with industrial agriculture. Explore food production issues including antibiotics, herbicides, hormones, GMOs, animal welfare, crop yields, nutrients, and pollution.	DPI License 200 Agriculture, Completion of Train the Trainer prior to teaching.	30	Agriculture, Food and Natural Resources
<b>Transportation Welding 1</b> Credit Value 1 <b>Grade Level 11-12</b>	<b>10-412-170 TRANSPORTATION WELDING 1</b> ...focuses on welding and cutting safety; develops skills in welding and cutting of metals used in the transportation trades. Methods of welding include gas metal arc welding (MIG) in the horizontal, vertical, and overhead positions. Methods of cutting include oxy-fuel and plasma arc cutting of metals. Students will learn to set up and maintain welding equipment and weld and cut a variety of types and thicknesses of materials commonly used in the transportation trades.	DPI License 220 Technical Education, Completion of Train the Trainer prior to teaching. Prior experience with basic MIG welding and oxy-fuel and plasma arc cutting is required.	30	Transportation, Distribution, and Logistics
<b>Trigonometry with Apps</b> Credit Value 3 <b>Grade Level 11-12</b>	<b>10-804-196 TRIGONOMETRY WITH APPLICATIONS</b> ...topics include circular functions, graphing of trigonometry functions, identities, equations, trigonometric functions of angles, inverse functions, solutions of triangles complex numbers, DeMoivre's Theorem, polar coordinates, and vectors. <b>(Prerequisite: Completion of 10-804-118 Interm Algebra with Applications with a "C" or better).</b>	DPI License 400 and Master's degree in Mathematics or master's degree with at least 18 graduate credits in a combination of the qualifying fields that provide a foundation in the specific subject matter being taught.	60	Science, Technology, Engineering and Math
<b>Vocational Math A</b> Credit Value 1 <b>Grade Level 10-12</b>	<b>31-804-304 VOCATIONAL MATH A</b> ...This course provides the opportunity for the learner to develop the knowledge and skills to apply the concepts of whole numbers, fractions, decimals, measurement, proportions, and percent to their career.	Related DPI License and: • Have at least a baccalaureate degree from an accredited institution, and • Have at least a minor or twenty semester credits drawn from the Mathematics department, or • Have a major in Engineering, Physics, or Statistics.	30	Science, Technology, Engineering and Math
<b>Vocational Math B</b> Credit Value 1 <b>Grade Level 10-12</b>	<b>31-804-305 VOCATIONAL MATH B</b> ...This course provides the opportunity for the learner to develop the knowledge and skills to apply the concepts of algebra, geometry, and trigonometry to their career. <b>(Prerequisite: Completion of 31-804-304 Vocational Math A with a "C" or better)</b>	Related DPI License and: • Have at least a baccalaureate degree from an accredited institution, and • Have at least a minor or twenty semester credits drawn from the Mathematics department, or • Have a major in Engineering, Physics, or Statistics.	30	Science, Technology, Engineering and Math
<b>Website Coding</b> Credit Value 3 <b>Grade Level 9-12</b>	<b>10-152-185 WEBSITE CODING</b> ...Create code for generating the structure, function, and design of static websites using standards-based HTML5 and CSS3; validate code; test multi-browser and multi-device functionality.	DPI License 250 Business Education, 281 Business and Office-Voc, 275 Basic Business Ed, 405 Computer Science and "B" or better in NWTC course.	60	Information Technology
<b>Windows Client Essentials</b> Credit Value 2 <b>Grade Level 10-12</b>	<b>10-150-177 WINDOW CLIENT ESSENTIALS</b> ...this course will provide the learner the opportunity to develop the knowledge, skills, process, and understanding of client OS installation, configuration, administration, including troubleshooting, network connectivity, standard system maintenance procedures, and command line introduction.	DPI License 250 Business Education, 281 Business and Office-Voc, 275 Basic Business Ed, 405 Computer Science or 400 Math and CISCO certification. Teacher's experience in IT will be assessed to determine if Trainer the Trainer is required.	60	Information Technology