Career & Technical Education/ NYS Standards Crosswalk **CDOS Standards**

Program: _____

Time Sequ-ence	CTE Scope & Context	Standard 1: Career Development	Standard 2: Integrated Learning	Standard 3: Universal Foundation Skills 3a:1 Basic skills	Standard 3: Universal Foundation Skills 3a: 2 Thinking Skills	Standard 3: Universal Foundation Skills 3a: 3 Personal Qualities	Standard 3: Universal Foundation Skills 3a: 4 Inter-personal Skills	Standard 3: Universal Foundation Skills 3a: 5 Technology	Standard 3: Universal Foundation Skills 3a: 6 Managing Information	Standard 3: Universal Foundation Skills 3a: 7 Managing Resources	Standard 3: Universal Foundation Skills 3a: 8 Systems
		Students will learn about the world of work, explore career options, and relate personnel skills, aptitudes, and abilities to future career decisions	Students will demonstrate how academic knowledge and skills are applied in the workplace and other settings	Perform the basic reading, writing, listening. Speaking, arithmetical and mathematical skills.	Demonstrate the ability to organize and process information and apply skills in a new way.	Demonstrate leadership goals, monitoring progress, and improving their performance.	Communicate effectively and assist others in learning new skills.	Apply their knowledge of technology to identify and solve problems.	Use technology to acquire, organize. and communicate information by entering, modifying, retrieving,	Assign resources to complete a task	Demonstrate how a systems performance relates to goals, functions, resources of an organization

Career & Technical Education/ NYS Standards Crosswalk **English Language Arts Standards**

Program: _____

Time Sequence	**CTE Scope & Context**	**Standard 1: Language for Information & Understanding**	**Standard 1: Language for Information & Understanding**	**Standard 3: Language for Critical Analysis & Evaluation**	**Standard 3: Language for Critical Analysis & Evaluation**	**Standard 4: Language for Social Interaction**	**Standard 4: Language for Social Interaction**
		Students will listen & read to collect data, facts, & ideas from oral, written, & electronic sources; discover relationships, concepts, & generalizations	Students will speak & write to acquire & transmit information by asking probing & clarifying questions, interpret information in one's own words; apply information from one context to another & clearly & precisely present information	Students will listen & read to analyze & evaluate experiences, ideas, information & issues from a variety of perspectives; recognize differences in evaluations using different criteria	Students will speak & write for critical analysis & evaluation presenting opinions & judgments on experiences, ideas, information & issues; communicate logically, persuasively, & clearly using a specific criteria	Students will use oral communication in formal & informal settings of different ages, genders & cultures; reflect on how communication varies in different situations	Students will use written communication to establish, maintain & enhance personal relationships with others

Career & Technical Education/ NYS Standards Crosswalk **Mathematics, Science, & Technology Standards**

Program: _____

Time Sequence	**CTE Scope & Context**	**Standard 1: Analysis, Inquiry, Design**	**Standard 1: Analysis, Inquiry, Design**	**Standard 1: Analysis, Inquiry, Design**	**Standard 1: Analysis, Inquiry, Design**	**Standard 1: Analysis, Inquiry, Design**	**Standard 1: Analysis, Inquiry, Design**	**Standard 1: Analysis, Inquiry, Design**
		M1- Abstraction & symbolic representation are used to communicate mathematically	M2- Deductive & inductive reasoning are used to reach mathematical conclusions	M3- Critical thinking skills are used in the solution of mathematical problems	S1- Use Scientific inquiry to develop explanations of natural phenomena in a continuing, creative process	S2- Use conventional techniques & procedures to test proposed explanations	S3- Analyze observations using conventional & invented methods to provide new insights	E1- Engineering design is a process using modeling & optimization to find the best solution within given restraints

Career & Technical Education/ NYS Standards Crosswalk **Mathematics, Science, & Technology Standards**

Program _____

Time Seq-uence	**CTE Scope & Context**	**Standard 2: Information Systems**	**Standard 2: Information Systems**	**Standard 2: Information Systems**	**Standard 3: Mathematics** Process Strand: Problem Solving	**Standard 3: Mathematics** Process Strand: Reasoning & Proof	**Standard 3: Mathematics** Process Strand: Communication	**Standard 3: Mathematics** Process Strand: Connections	**Standard 3: Mathematics** Process Strand: Representation	**Standard 3: Mathematics** Content Strand: Number Sense & Operation	**Standard 3: Mathematics** Content Strand: Algebra
		Information Technology is used to retrieve, process, & communicate information & enhance learning	Knowledge of the impacts & limitations of information systems in relation to effective & ethical use	Information Technology can have a positive & negative impact on society	Students will use new mathematical knowledge, solve problems that arise in mathematics and in other contexts, apply and adapt strategies, monitor & reflect on problem solving	Students will recognize reasoning & proof as fundamental aspects, make and investigate mathematical conjectures, develop, evaluate and apply mathematical arguments & proofs	Students will organize & consolidate mathematical thinking through communication, communicate coherently and clearly to others, analyze & evaluate thinking & strategies of others	Students will recognize and use connections among ideas, understand how ideas interconnect & build on one another to produce a whole, recognize & apply math in outside mathematics	Students will create & use representations to organize, record and communicate ideas, select, apply and translate among mathematical representations, and be able to model and interpret physical, social and mathematical phenomena	Students will understand numbers, multiple ways of representing numbers, ways of representing numbers & their relationships, understand meanings of operations & procedures & how they relate.	Students will represent & analyze algebraic solutions, perform algebraic procedures accurately, recognize, use, and represent patterns, relations and functions

Career & Technical Education/ NYS Standards Crosswalk **Mathematics, Science, & Technology Standards**

Program: _____

Time Seq-uence	**CTE Scope & Context**	**Standard 3: Mathematics** Content Strand: Geometry	**Standard 3: Mathematics** Content Strand: Measurement	**Standard 3: Mathematics** Content Strand: Statistics & probability	**Standard 4: Science**	**Standard 5: Technology**	**Standard 5: Technology**	**Standard 5: Technology**	**Standard 5: Technology**	**Standard 5: Technology**	**Standard 7: Inter-disciplinary Problem Solving**
		Students will use visualization & spatial reasoning to analyze geometric shapes, will apply coordinate geometry to analyze problem solving situations	Students will determine what can be measured and how, using appropriate methods and formulas and students will understand that all measurement contains error and be able to determine its significance	Students will collect, organize, display, and analyze data, students will make predictions that are based upon data analysis, students will understand and apply concepts of probability	Students will understand & apply scientific concepts, principles, & theories pertaining to the physical setting and living environment & recognize the historical development of ideas in science	Engineering design is a process involving modeling & optimization used for technological solutions to problems	Technological tools & materials are selected on the basis of safety, cost, availability, appropriateness, environmental impact; Technology processes change energy, information, & resources into useful forms	Computers as tools for design, modeling, information processing, communication, system control have increased human productivity & knowledge	Technological systems achieve specific results & produce products, structures, services, energy, other systems	Technology has been a driving force in the evolution of society	Students will apply the knowledge and thinking skills of mathematics, science, & technology to address real-life problems & make informed decisions.

Career & Technical Education/ NYS Standards Crosswalk **Mathematics, Science, & Technology Standards**

Program: _____

Time Seq-uence	**CTE Scope & Context**	**Standard 5: Technology**	**Standard 5: Technology**	**Standard 6: Inter-Connected-ness: Common Themes**	**Standard 7: Inter-disciplinary Problem Solving**
		Technology can have positive & negative impacts on society& the environment; humans have a responsibility in technological development	Project management is essential to ensure that endeavors are profitable, of high quality, built safely, on schedule, within budget	Students will understand the relationships & common themes that connect mathematics, science, & Technology & other areas of learning.	Students will apply the knowledge and thinking skills of mathematics, science, & technology to address real-life problems & make informed decisions.