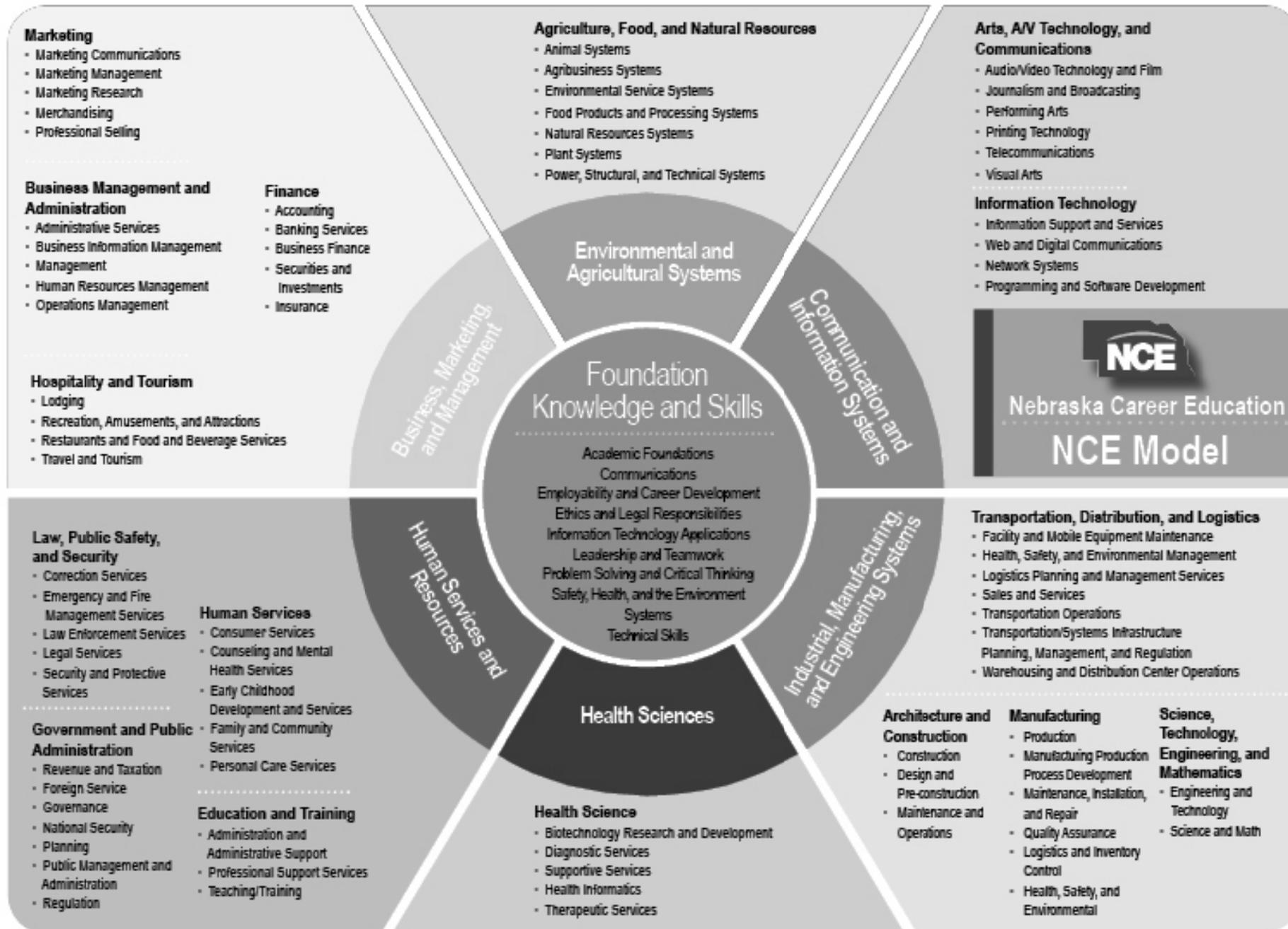


# Nebraska Career Education



*Course codes and  
clearing endorsements  
that align to the new  
NCE curriculum  
delivery model*

*Effective 2008-2009  
school year*

## Career Education Foundational & Specialty Courses (320....)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Clearing Endorsements	Description
			NEW COURSE	320400	0100 Agriculture 0301 Basic Business 0302 Business Education 0400 Marketing 0903 Family/Consmr Science 1000 Industrial Technology 1810 Middle Grades/Ag Ed 1812 Middle Grades/Bus. Ed 1813 Middle Grades-FCS 1816 Middle Grades/Ind Tech	<p><b>C4C – CURRICULUM FOR CAREERS</b></p> <p>This course provides an introduction to the Essential Knowledge and Skills of the Nebraska Career Education Model. It also introduces students to the Nebraska Career Fields and sixteen career clusters. Students will develop a 6+ year Personal Learning Plan at the completion of this course</p> <p><b>Target Level: Middle/Junior High</b></p>
			NO CHANGE	320100	8888 Other Endorsement	<p><b>LEARNING, EARNING AND LIVING SKILLS</b></p> <p>Course to teach essential learning of Nebraska Comprehensive Counseling Program including: Learning Skills (Academic Development), Earning Skills (Career Development), and Living Skills (Personal/Social Development). Students will explore 21<sup>st</sup> Century learning strategies for academic settings, plan and apply education to the Nebraska Career Education Model of career cluster opportunities and to gain knowledge and skills for effective living/citizenship. This course includes learning experiences to prepare for successful, seamless transition to postsecondary options. Students may create/update Personal Learning Plans.</p> <p><b>Target Level: Middle/Junior High</b></p>
			NEW COURSE	320500	0100 Agriculture 0301 Basic Business 0302 Business Education 0400 Marketing 0903 Family/Consmr Science 1810 Middle Grades/Ag Ed 1812 Middle Grades/Bus. Ed 1813 Middle School-FCS	<p><b>EXPLORATION OF ENTREPRENEURSHIP</b></p> <p>A course designed to introduce students to entrepreneurship as a career option. Emphasis is on entrepreneurial discovery, concept development, finding/allocating resources, basics of start-up, and future planning.</p> <p><b>Target Level: Middle/Junior High</b></p>
			NEW COURSE	320600	0100 Agriculture 0301 Basic Business 0302 Business Education 0400 Marketing 0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<p><b>ENTREPRENEURSHIP</b></p> <p>A course for students with a career interest in entrepreneurship. Emphasis is placed on identifying and understanding the skills needed to plan, organize, finance, and operate an entrepreneurial enterprise. These skills include entrepreneurial skills, readiness skills, and business functions. Instructional strategies may include the development of a business plan, operation of a school-based business, or actual creation of a student-run business. Course content should be based on the content standards for entrepreneurship.</p> <p><b>Target Level: Grades 9-12</b></p>

***Career Education Foundational & Specialty Courses (320....)***

<b>OLD COURSES</b>			<b>NEW COURSES</b>			
<b>Code</b>	<b>Clearing Endorsements</b>	<b>Description</b>	<b>Status</b>	<b>Code</b>	<b>Clearing Endorsements</b>	<b>Description</b>
247100		<b>DO – SCHOOL SITE LEARNING CLASS</b>	<b>DROP COURSE</b>	<b>247100</b>		
247200		<b>COOP ED/DO-WORKSITE LEARNING EXPERIENCE</b>	<b>DROP COURSE</b>	<b>247200</b>		
			<b>NEW COURSE</b>	<b>320700</b>	0100 Agriculture 0302 Business Education 1605 COOP Ed Div Occ 1603 Div Occ/Shl- to- Work 1601 Diversified Occupatns 0902 Fam.Consr Reltd Occ 0700 Health Occupations 0400 Marketing 0400 1702 T & I Auto Mechanics 1701 T & I Construction 1705 T & I Drafting 1703 T & I Elec-Electrician 1706 T & I Graphic Arts 1704 T & I Metals 1700 Vocational T & I	<p><b>COOPERATIVE EDUCATION/DIVERSIFIED OCCUPATIONS WORKBASED LEARNING</b></p> <p>A regularly scheduled class that provides students the opportunity to connect what they learn in school with worksite application. Students are placed in an occupation that best relates to their career interest and aptitude. The school and business community work together to plan activities that will enable each student to apply the knowledge, attitudes and skills learned in the classroom to actual business situations and positions. Students generally earn a regular salary while developing the competencies necessary for success in the world of work.</p> <p>This course must be a part of an NDE approved Cooperative Education/Diversified Occupations Program that may allow for an exemption for 16-17 year olds in some hazardous occupations. The clearing endorsement must include the Coordination Techniques course.</p> <p><b>Target Level: Grades 9-12</b></p>
320200		<b>EDUCATION AND TRAINING</b>	<b>DROP COURSE</b>	<b>320200</b>		
320300		<b>LAW, PUBLIC SAFETY &amp; SECURITY</b>	<b>DROP COURSE</b>	<b>320300</b>		

## Career Education - Business, Marketing and Management Career Field (030...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Clearing Endorsements	New Description
030300	Basic Business 0301 Business Education 0302 General Off. Educ. 0303 Marketing 0400	<b>ACCOUNTING, BEGINNING</b> The study of the fundamental principles involved in the preparation and maintenance of financial records concerned with the business management and operations.	<b>COURSE NAME AND DESCRIPTION CHANGE</b>	<b>030300</b>	0301 Basic Business 0302 Business Education 0400 Marketing	<b>ACCOUNTING</b> This two-semester course covers sole proprietorship accounting principles involved in the preparation and maintenance of financial records concerned with business management and operations. It is a comprehensive introduction to basic financial accounting including recording, summarizing and reporting, principles of income measurement and asset valuation, accounting systems and controls. Students are exposed to careers in the accounting field and are given the opportunity to perform accounting applications using the computer. An introduction to partnerships and corporations may be included.  <b>Target Level: Grades 10-12</b>
030301	Basic Business 0301 Business Education 0302 General Off. Educ. 0303 Marketing 0400	<b>ACCOUNTING, ADVANCED</b> A second-year accounting course designed to help students acquire additional knowledge of concepts, procedures and applications. Special emphasis is given to analyzing and interpreting financial information used in making managerial decisions.	<b>COURSE NAME AND DESCRIPTION CHANGE</b>	<b>030301</b>	0301 Basic Business 0302 Business Education 0400 Marketing	<b>ADVANCED ACCOUNTING</b> This course includes partnership and corporate accounting, adjustment in inventory control systems, budgetary control systems and further enhancement of accounting skills. Students are exposed to various careers in the accounting field and are given the opportunity to perform accounting applications using the computer.  <b>Target Level: Grades 11-12</b>
			<b>NEW COURSE</b>	<b>030302</b>	0302 Business Education 0400 Marketing	<b>COLLEGE PRINCIPLES OF ACCOUNTING</b> This college-level course is designed to provide introductory knowledge of financial accounting principles, concepts, and practices. Included topics are the balance sheet, the income statement, the statement of owner's equity, the statement of cash flows, journals, ledgers, accruals, adjusting and closing entries, internal controls, assets, liabilities, equity, and financial statement analysis. This course provides a foundation for more advanced work in the fields of accounting and business. This course may be available for articulated or dual credit at a postsecondary institution.  <b>Target Level: Grades 11-12</b>
030500	Basic Business 0301 Business Education 0302 General Off. Educ. 0303 Marketing 0400 Mathematics 1100 Middle Grades/Business Ed 1812 Middle Grades/Math 1818	<b>BUSINESS MATH</b> A course that provides students a comprehensive review of basic mathematical skills. Students have the opportunity to apply the math concepts to realistic business and money management situations.	<b>ENDORSEMENT CHANGE</b>	<b>030500</b>	0301 Basic Business 0302 Business Education 0400 Marketing 1100 Mathematics 1812 Middle Grades/Bus Ed 1818 Middle Grades/Math	<b>BUSINESS MATH</b> A course that provides students a comprehensive review of basic mathematical skills. Students have the opportunity to apply the math concepts to realistic business and money management situations.  <b>Target Level: Grades 9-12</b>

## Career Education - Business, Marketing and Management Career Field (030...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Clearing Endorsements	New Description
030600	Basic Business 0301 Business Education 0302 English 0501 General Off. Educ. 0303 Language Arts 0502 Marketing 0400	<b>BUSINESS COMMUNICATION</b> A course designed to assist students in developing and refining job-related communication skills; reading, writing/composition, listening, speaking, problem solving, thinking, visual and nonverbal skills, all interwoven in a manner that prepares students for the world of work outside the classroom. The course is designed to integrate the study of literature with skills needed in the workplace.	<b>COURSE DESCRIPTION CHANGE</b>	<b>030600</b>	0301 Basic Business 0302 Business Education 0501 English 0502 Language Arts 0400 Marketing	<b>BUSINESS COMMUNICATION</b> Students will reinforce communication skills needed in business, management and administrative occupations by using reading strategies to learn meaning, technical concepts, vocabulary and following directions. Students will compose and compare written and electronic communications to convey technical concepts and company information, develop and deliver formal and informal presentations related to a broad range of business topics, apply active listening skills to obtain and clarify information, and exhibit people skills to deal positively with a variety of personalities and diverse individuals. Students will interpret and use tables, charts, and figures to support written and oral communication, and locate, organize, and reference written information from various sources to communicate with coworkers and clients/participants.  <b>Target Level: Grades 9-12</b>
030601	Basic Business 0301 Business Education 0302 English 0501 General Off. Educ. 0303 Language Arts 0502 Marketing 0400	<b>APPLIED COMMUNICATION</b> A course designed to assist students in developing and refining job-related communication skills; reading, writing/composition, listening, speaking, problem-solving, thinking, visual and nonverbal skills, all interwoven in a manner that prepares the students for the world of work outside the classroom. The course is designed to integrate the study of literature with skills needed in the workplace.	<b>COURSE DESCRIPTION CHANGE</b>	<b>030601</b>	0301 Basic Business 0302 Business Education 0501 English 0502 Language Arts 0400 Marketing	<b>APPLIED COMMUNICATION</b> Students will reinforce communication skills needed in business, management and administrative occupations by using reading strategies to learn meaning, technical concepts, vocabulary and following directions. Students will compose and compare written and electronic communications to convey technical concepts and company information develop and deliver formal and informal presentations related to a broad range of business topics, apply active listening skills to obtain and clarify information, and exhibit people skills to deal positively with a variety of personalities and diverse individuals. Students will interpret and use tables, charts, and figures to support written and oral communication, and locate, organize, and reference written information from various sources to communicate with coworkers and clients/participants.  <b>Target Level: Grades 9-12</b>
			<b>NEW COURSE</b>	<b>030801</b>	0301 Basic Business 0302 Business Education 0400 Marketing	<b>INTRODUCTION TO RISK MANAGEMENT AND INSURANCE</b> This course is designed as an introduction to the basic principles and terminology of insurance. The course includes key definitions, organizational, and regulatory views of the insurance industry; the purpose and features of homeowners, automobile, commercial property, workers' compensation and casualty insurance policies; financial and professional liability coverages; the value of loss control and claims management to managing insurance costs; life and health insurance fundamentals; and the role of government in providing insurance such as Social Security.  <b>Target Level: Grades 10-12</b>

## Career Education - Business, Marketing and Management Career Field (030...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Clearing Endorsements	New Description
			NEW COURSE	030802	0301 Basic Business 0302 Business Education 0400 Marketing	<p><b>SECURITIES AND INSURANCE</b> This is a one-semester course that provides an in-depth look at two sectors of the financial services industry from the perspectives of the consumer and the industry specialist. Students will analyze the front and back office operations in both the securities and insurance sectors, examine career paths in both areas, and gain insight into the current issues faced by the industry. An emphasis is placed on examining the impact of technology on these finance sectors and on evaluating career paths available in each area.</p> <p><b>Target Level: Grades 10-12</b></p>
			NEW COURSE	030803	0301 Basic Business 0302 Business Education 0400 Marketing	<p><b>BANKING AND CREDIT</b> This course presents a survey of the principles and practices of banking and credit in the United States. The students learn the major functions of banks and other depository institutions, their in-house operations and procedures, central banking through the Federal Reserve System and modern trends in the banking industry. The credit component provides an overview of credit functions and operations including credit risk evaluation, loan creation, and debt collection.</p> <p><b>Target Level: Grades 9-12</b></p>
030900	Basic Business 0301 Business Education 0302 General Office Educ. 0303 Marketing 0400	<p><b>BUSINESS AND CONSUMER LAW</b> A course designed to present the study of the legal rights and responsibilities necessary to be informed and productive citizens, employees, employers and consumers in the free enterprise system.</p>	COURSE NAME AND DESCRIPTION CHANGE	030900	0301 Basic Business 0302 Business Education 0400 Marketing	<p><b>BUSINESS LAW</b> A course designed to present the study of the legal rights and responsibilities necessary to be informed and productive citizens, employees, employers, and consumers in the free enterprise system. Key concepts include contracts and torts, the role of courts, regulation, litigation and constitutional issues including civil and criminal law.</p> <p><b>Target Level: Grades 10-12</b></p>
031800	Basic Business 0301 Business Education 0302 Economics 1503 General Office Educ. 0303 Marketing 0400 Social Science 1501	<p><b>BUSINESS ECONOMICS</b> A course designed to help students understand economic principles as applied to current events and issues. Emphasis includes economics systems and structures, supply and demand, opportunity costs, inflation, price mechanisms, markets, role of competition, money and monetary policy, role of labor organizations and productivity.</p>	NO CHANGE	031800	0301 Basic Business 0302 Business Education 0400 Marketing 1503 Economics 1501 Social Science	<p><b>BUSINESS ECONOMICS</b> A course designed to help students understand economic principles as applied to current events and issues. Emphasis includes economic systems and structures, supply and demand, opportunity costs, inflation, price mechanisms, markets, role of competition, money and monetary policy, role of labor organizations, and productivity.</p> <p><b>Target Level: Grades 9-12</b></p>

## Career Education - Business, Marketing and Management Career Field (030...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Clearing Endorsements	New Description
031805	Basic Business 0301 Business Education 0302 General Office Educ. 0303 Marketing 0400	<b>E-COMMERCE</b> This course is designed to help students master the concepts and skills for conducting business electronically. Emphasis is on entrepreneurial applications of conducting business electronically as well as economics, social, legal and ethical issues related to electronic business. Skill development in web page construction will be incorporated, including understanding software and Internet capabilities. Students may have the opportunity to develop sites for selling goods/services/ideas.	<b>COURSE NAME DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>031805</b>	0302 Business Education 0400 Marketing	<b>E-BUSINESS</b> This course is designed for those entrepreneurial students who are interested in learning how to develop their own product or service into an Internet-based business through the creation of a business plan and website. Students will study the responsibilities of an employee and/or employer in today's business environment and will apply business ethics, regulations, and safe guards to protect the business.  <b>Target Level: Grades 10-12</b>
032300	Basic Business 0301 Business Education 0302 General Office Educ. 0303 Marketing 0400 Middle Grades/Bus. Ed 1812	<b>INTRODUCTION TO BUSINESS</b> The study of nature, functions, and nurturance of human relationships in family and individual units.	<b>COURSE NAME AND DESCRIPTION CHANGE</b>	<b>032300</b>	0301 Basic Business 0302 Business Education 0400 Marketing	<b>INTRODUCTION TO BUSINESS, MARKETING &amp; MGMT</b> This course is designed as an introductory overview of the Business, Marketing and Management Career Field. The course introduces students to finance, marketing, and management. Units of study include scope and function of business and economic systems, forms of business ownership, legal and ethical issues in business and career opportunities in a business administration career.  <b>Target Level: Grades 9-10</b>
			<b>NEW COURSE</b>	<b>032400</b>	0302 Business Education 0400 Marketing	<b>COLLEGE INTRODUCTION TO BUSINESS</b> This college-level course provides a survey of the structure and functions of business. Included in the course is an overview of business organization, economics, management, marketing, and finance. This course may be available for articulated or dual credit at a postsecondary institution.  <b>Target Level: Grades 11-12</b>
032600	Basic Business 0301 Business Education 0302 General Office Educ. 0303 Marketing 0400 Middle Grades/Bus. Ed 1812	<b>ENTREPRENEURSHIP</b> A course designed to introduce students to the rewards and risks of owning or operating a business enterprise. Emphasis is placed on the mastery of skills needed to plan, organize, finance and manage a small business. Instructional strategies may include the development of a business plan or the operation of a school-based business.	<b>COURSE NAME DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>032600</b>	0302 Business Education 0400 Marketing	<b>COLLEGE INTRODUCTION TO ENTREPRENEURSHIP</b> A course designed for students with a career interest in entrepreneurship. Emphasis is placed on the evaluation of the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The student will understand the role of entrepreneurial businesses in the United States and the impact on our national and global economy. Instructional strategies may include the development of a business plan, operation of a school-based business, or actual creation of a student-run business. Course content should be based on the content standards for entrepreneurship. This course may be available for articulated or dual credit at a postsecondary institution.  <b>Target Level: Grades 10-12</b>

## Career Education - Business, Marketing and Management Career Field (030...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Clearing Endorsements	New Description
032801		<b>BUSINESS TECHNOLOGY/BUSINESS PROCEDURES</b>	<b>DROP COURSE</b>	<b>032801</b>		
032802	Basic Business 0301 Business Education 0302 General Office Educ. 0303 Marketing 0400	<b>BUSINESS MANAGEMENT</b> A business course designed to provide basic theory of business organization and management. The course gives a general overview of national and international business and the social and economic environments of business. It emphasizes the basic concepts of management and the characteristics, organization and operation of business as a major sector of the economy.	<b>COURSE NAME AND DESCRIPTION CHANGE</b>	<b>032802</b>	0301 Basic Business 0302 Business Education 0400 Marketing	<b>MANAGEMENT AND LEADERSHIP</b> A business course designed to provide basic theory of business organization and management. The course gives a general overview of national and international business and the social and economic environments of business. It emphasizes the basic concepts of management and leadership within the business organization, and the characteristics, organization, and operation of business as a major sector of the economy. Students will investigate management issues involved in planning, organizing, controlling, and leading an organization.  <b>Target Level: Grades 10-12</b>
033000	Basic Business 0301 Business Education 0302 Economics 1503 General Office Educ. 0303 Marketing 0400 Middle Grades/Bus. Ed 1812 Middle Gr./Soc. Science 1820	<b>PERSONAL FINANCE/CONSUMER ECONOMICS</b> A course designed to assist students in personal financial management skills. Students learn to manage their resources and to make sound personal financial decisions. Units of study include budgeting, credit, insurance, saving and investing, home ownership, banking, taxes, wills and estates.	<b>COURSE NAME, DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>033000</b>	0301 Basic Business 0302 Business Education 0400 Marketing 1503 Economics	<b>PERSONAL FINANCE</b> A course designed to assist students in personal financial management skills. Students learn to manage their resources and to make sound personal financial decisions. Units of study include budgeting, credit, insurance, saving and investing, home ownership, banking, taxes, wills, and estates.  <b>Target Level: Grades 9-12</b>
			<b>NEW COURSE</b>	<b>033001</b>	0301 Basic Business 0302 Business Education 0400 Marketing	<b>BUSINESS FINANCE</b> This course introduces principles of business and management. Topics include basic business principles, personal finance, management, systems thinking, and the current environment for business in a multinational marketplace. Students will interpret data to develop short- and long-term budgetary plans, produce accurate financial reports, and make business decisions. Students will develop product knowledge related to financial and investment planning and insurance and annuity products. Students will develop a financial plan that includes savings, investing, borrowing, risk management, and retirement.  <b>Target Level: Grades 11-12</b>
			<b>NEW COURSE</b>	<b>033002</b>	Business Education 0302 Economics 1503 Marketing 0400	<b>COLLEGE PERSONAL FINANCIAL MANAGEMENT</b> This college-level course is designed to provide knowledge of personal financial management. Students learn to manage their resources and to make sound personal financial decisions, interpret data to develop short- and long-term budgetary plans, and develop product knowledge related to financial and investment planning and insurance and annuity products. Students will develop a financial plan that includes savings, investing, borrowing, risk management, and retirement. This course may be available for articulated or dual credit at a postsecondary institution.  <b>Target Level: Grades 11-12</b>

## Career Education - Business, Marketing and Management Career Field (030...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Clearing Endorsements	New Description
033410		<b>INTRODUCTION TO INFORMATION TECHNOLOGY</b>	<b>DROP COURSE</b>	<b>033410</b>		
033420		<b>BUSINESS COMPUTER APPLICATIONS</b>	<b>DROP COURSE</b>	<b>033420</b>		
033421		<b>ADVANCED BUSINESS COMPUTER APPLICATION</b>	<b>DROP COURSE</b>	<b>033421</b>		
033501	Basic Business 0301 Business Education 0302 General Off. Educ. 0303 Middle Grades/Bus. Ed. 1812	<b>KEYBOARDING APPLICATIONS</b> A course designed for students to learn touch techniques and proper keystroking while continuing to develop composition and proofreading skills as well as speed and accuracy. Students will demonstrate keyboarding proficiency in document formatting (personal letters, reports, tables). Other forms of input technology (speech recognition, wireless devices, voice-activated and handwriting table applications) may be introduced.	<b>ENDORSEMENT CHANGE</b>	<b>033501</b>	0301 Basic Business 0302 Business Education 0400 Marketing 1812 Middle Grades/Bus. Ed 2701 Information Technology	<b>KEYBOARDING APPLICATIONS</b> A course designed for students to learn touch techniques and proper keystroking while continuing to develop composition and proofreading skills as well as speed and accuracy. Students will demonstrate keyboarding proficiency in document formatting (personal letters, reports, tables). Other forms of input technology (speech recognition, wireless devices, voice-activated, and handwriting recognition applications) may be introduced.  <b>Target Level: Middle/Junior High</b>
033502		<b>KEYBOARDING APPLICATIONS ADVANCED</b>	<b>DRO P COURSE</b>	<b>033502</b>		
			<b>NEW COURSE</b>	<b>033422</b>	0301 Basic Business 0302 Business Education 0400 Marketing 1812 Middle Grades/Bus. Ed. 2701 Information Technology 2700 Computer Science	<b>COMPUTER APPLICATIONS</b> A course designed for students to improve touch method keyboarding skills and to develop handwriting recognition and speech recognition skills. Instruction emphasizes improved techniques for increased speed and accuracy and composition at the keyboard. Students will be introduced to word processing, electronic presentation, and spreadsheet applications.  <b>Target Level: Middle/Junior High</b>
033600		<b>INTERACTIVE MEDIA AND WEB DESIGN</b>	<b>DROP COURSE</b>	<b>033600</b>		
033601		<b>NETWORK SYSTEMS</b>	<b>DROP COURSE</b>	<b>033601</b>		
034100	Basic Business 0301 Business Education 0302 General Office Educ. 0303 Marketing 0400	<b>INTERNATIONAL BUSINESS</b> A course designed to provide a specialized course for students with a career interest in international trade. The course offers opportunities for students to develop an understanding of the various careers in international trade, finance, shipping and marketing. Fundamental concepts, principles and theories in an international setting are considered. Students may combine classroom instruction with occupational experiences in international trade-related businesses.	<b>DESCRIPTION CHANGE</b>	<b>034100</b>	0301 Basic Business 0302 Business Education 0400 Marketing	<b>INTERNATIONAL BUSINESS</b> A specialized course where students learn how businesses meet the challenges of culture, political, and business differences. Trade barriers, letters of credit, importing, exporting, international economies, financing, social/cultural differences, and career opportunities will be explored.  <b>Target Level: Grades 10-12</b>

## Career Education - Business, Marketing and Management Career Field (030...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Clearing Endorsements	New Description
037100		<b>COOPERATIVE BUSINESS INTERNSHIP</b>	<b>DROP COURSE</b>	<b>037100</b>		
090203	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>FOOD MANAGEMENT, PRODUCTION AND SERVICES</b> Preparation for paid employment in managerial productions and service level jobs in institutional, commercial or other food industry occupations. Included may be study of foods, and their nutritive value, quantity food preparation, safety and sanitary precautions.  <b>Target Level: Grades 10-12</b>	<b>COURSE NAME DESCRIPTION CHANGE and NEW CODE</b>	<b>035000</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>FOOD SERVICE MANAGEMENT I</b> Preparation for employment in commercial, institutional or other food industry service and management careers. Included may be a study of the nutritive value of foods, quantity food preparation, safety and sanitary, and customer relations.  <b>Target Level: Grades 10-12</b>
			<b>NEW COURSE</b>	<b>035001</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>FOOD SERVICE MANAGEMENT II</b> A continuation of quantity food preparation, nutrition and safety with emphasis on purchasing and inventory control, controlling foodservice costs, menu planning, marketing and legal issues. It is recommended that students be eligible for ProStart certification by the end of the Food Service Management sequence.  <b>Target Level: Grades 10-12</b>
040400	Marketing 0400	<b>FINANCIAL SERVICES MARKETING</b>	<b>DROP COURSE</b>	<b>040400</b>		
044101	Marketing 0400	<b>BEGINNING MARKETING</b> A course of study that provides a sound foundation in the principles and concepts of economics, the fundamentals of marketing, and the free market as well as other economic systems. The beginning marketing course is usually part of a two-year marketing program.	<b>COURSE NAME DESCRIPTION AND ENDORSEMENT CHANGE AND NEW CODE</b>	<b>038100</b>	0400 Marketing 0301 Basic Business 0302 Business Education	<b>MARKETING</b> A course of study that provides a sound foundation in the principles of economics and the fundamentals of marketing. The curriculum provides the foundational skills and knowledge in economics, communication skills/interpersonal skills, professional development, business, management, and entrepreneurship. Application of academic concepts and technology are integrated throughout the curriculum.  <b>Target Level: Grades 10-12</b>
047101	Marketing 0400	<b>ADVANCED MARKETING</b> Advanced marketing (Marketing II) is a capstone course focusing on the study of the marketing functions as they relate to the student's career interest(s). Emphasis is placed on the application of economic knowledge, marketing mathematics, computer/technology applications, decision making (critical thinking), communication and management techniques..	<b>COURSE DESCRIPTION AND ENDORSEMENT CHANGE AND NEW CODE</b>	<b>038101</b>	0302 Business Education 0400 Marketing	<b>ADVANCED MARKETING</b> This course focuses on the in-depth study of the marketing functions in actual business/economic situations. Emphasis is placed on the application of economics, mathematics, technology, decision making/critical thinking, and management techniques. This course advances the skills and knowledge students acquired in Marketing. Marketing internships may be used to reinforce and advance classroom content.  <b>Target Level: Grades 10-12</b>

## Career Education - Business, Marketing and Management Career Field (030...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Clearing Endorsements	New Description
044400	Marketing 0400	<b>FASHION MARKETING/MERCHANDISING</b> A course which provides the foundation in preparing students for a wide range of careers available throughout the fashion industry. Special emphasis is given to the study of fashion designers, manufacturing, wholesaling, promotion and retailing of fashion items.	<b>COURSE NAME DESCRIPTION AND ENDORSEMENT CHANGE AND NEW CODE</b>	<b>038200</b>	0400 Marketing 0302 Business Education.	<b>FASHION MARKETING</b> A course that provides the foundation in preparing students for a wide range of careers available throughout the fashion industry. Special emphasis is given to the study of fashion designers, manufacturing, wholesaling, promotion, and retailing of fashion items.  <b>Target Level: Grades 10-12</b>
041801	Marketing 0400	<b>HOSPITALITY AND RECREATION MARKETING</b> This course provides instruction in skills and knowledge within the context of the fields of hospitality management (restaurant and lodging management) and recreational ventures such as entertainment, relaxation, and sports-related businesses. In-depth instruction and practical experience in marketing and management concepts, principles and practices related to the hospitality and recreation industries are fundamental components of this course.	<b>COURSE NAME DESCRIPTION AND ENDORSEMENT CHANGE AND NEW CODE</b>	<b>038300</b>	0302 Business Education 0400 Marketing	<b>HOSPITALITY AND TOURISM</b> This course provides instruction in skills and knowledge within the context of the fields of hospitality management and tourism ventures such as convention bureaus, destination markets, and travel agencies. In-depth instruction and practical experience in marketing and management concepts, principles, and practices related to the hospitality and tourism industries are fundamental components of this course.  <b>Target Level: Grades 9-12</b>
041800	Marketing 0400	<b>SPORTS AND ENTERTAINMENT MARKETING</b> This course provides students with the marketing and management concepts, principles and practices used in the marketing and management of entertainment venues, visual and performing art venues, sports teams and arenas, and other related fields of endeavor. An academy approach to instruction may be used as well as cooperative on-the-job training.	<b>COURSE DESCRIPTION AND ENDORSEMENT CHANGE AND NEW CODE</b>	<b>038400</b>	0400 Marketing 0302 Business Education	<b>SPORTS AND ENTERTAINMENT MARKETING</b> This course provides students with the marketing and management concepts, principles, and practices used in the marketing and management of entertainment venues, visual and performing art venues, sports teams, and arenas.  <b>Target Level: Grades 10-12</b>
044001		<b>EXPLORATION OF MARKETING</b>	<b>DROP COURSE</b>	<b>044001</b>		
044200		<b>ADVERTISING</b>	<b>DROP COURSE</b>	<b>044200</b>		
044300		<b>RETAILING</b>	<b>DROP COURSE</b>	<b>044300</b>		
044500		<b>ENTREPRENEURSHIP/SMALL BUSINESS MGMT</b>	<b>DROP COURSE</b>	<b>044500</b>		
044600		<b>E-COMMERCE MARKETING</b>	<b>DROP COURSE</b>	<b>044600</b>		
0460000		<b>INTERNATIONAL MARKETING</b>	<b>DROP COURSE</b>	<b>046000</b>		
047200		<b>COOPERATIVE MARKETING INTERNSHIP</b>	<b>DROP COURSE</b>	<b>047200</b>		

***Career Education - Business, Marketing and Management Career Field (030...)***

<b>OLD COURSES</b>			<b>NEW COURSES</b>			
<b>Code</b>	<b>Clearing Endorsements</b>	<b>Description</b>	<b>Status</b>	<b>Code</b>	<b>Clearing Endorsements</b>	<b>New Description</b>
039930 – 039934	Basic Business 0301 Business Education 0302 Computer Science 2700 General Office Educ. 0303 Middle Gr./Bus. Ed 1812	<b>BUSINESS, OTHER</b> Business courses not listed or classified under the above codes. Using codes 039930 through 039934 means you can add five “other” courses by using one code for each one of the five courses	<b>COURSE DESCRIPTION CHANGE</b>	039930 – 039934	0301 Basic Business 0302 Business Education 0400 Marketing	<b>BUSINESS, MARKETING, AND MANAGEMENT OTHER</b> Courses not otherwise listed. Using codes 039930 through 039934 means you can add five “other” courses by using one code for each one of the five courses.  <b>Target Level: Grades 9-12</b>
049930 – 049934	Marketing 0400	<b>MARKETING, OTHER</b> Marketing, management or entrepreneurship courses not listed or classifiable under the above codes.  Using codes 049930 through 049934 means you can add five “other” courses by using one code for each one of the five courses	<b>DROP COURSE</b>			

***Career Education - Communication and Information Systems Career Field (270...)***

<b>OLD COURSES</b>			<b>NEW COURSES</b>			
<b>Code</b>	<b>Clearing Endorsements</b>	<b>Description</b>	<b>Status</b>	<b>Code</b>	<b>Endorsements</b>	<b>New Description</b>
			<b>NEW COURSE</b>	<b>270200</b>	0302 Business Education 1706 T & I Graphic Arts 0510 Journalism and Mass Communications 0503 Journalism	<p><b>AUDIO/VIDEO PRODUCTION</b> Students will explore career opportunities in the audio-video industries. Students will demonstrate use of audio-video production equipment including microphones, lighting requirements and camera operations. Students will demonstrate script writing and computer-based development of audio-video production and editing.</p> <p><b>Target Level: Grades 10-12</b></p>
			<b>NEW COURSE</b>	<b>270210</b>	0302 Business Education 0503 Journalism 0510 Journalism and Mass Comm 1706 T & I Graphic Arts	<p><b>DIGITAL PHOTOGRAPHY</b> Students will learn photographic principles and techniques common to both digital and traditional photography with a career emphasis. Students will learn about features common on digital cameras and artistic considerations. Students will use image editing software to learn principles of altering images for both image improvement and artistic considerations, as well as for use in visual communications.</p> <p><b>Target Level: Grades 10-12</b></p>
			<b>NEW COURSE</b>	<b>270220</b>	0503 Journalism 0510 Journalism and Mass Comm 0502 Language Arts	<p><b>PUBLICATION JOURNALISM</b> Students will explore career opportunities in journalism including media companies, radio and television stations, newspapers and news magazines, and other news outlets. Students will study the history of journalism and its role in society and develop an awareness of cultural, regional, and diversity issues. Specific content will include writing processes used for various journalism media, including how to obtain information for writing the story, developing the story for print, on-line and broadcast, learning how photographs support the story, and application of knowledge of the similarities and differences in editorial, feature, and news writing styles.</p> <p><b>Target Level: Grades 10-12</b></p>
			<b>NEW COURSE</b>	<b>270230</b>	0503 Journalism 0510 Journalism and Mass Comm 0502 Language Arts	<p><b>BROADCASTING</b> Students will explore careers in the fields of radio and television. Students will develop and emphasize writing skills, define terminology associated with television broadcasting, learn digital video and audio editing, and use studio recording equipment. Students will develop a television project, a radio project, and an on-line project.</p> <p><b>Target Level: Grades 10-12</b></p>

## Career Education - Communication and Information Systems Career Field (270...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
			NEW COURSE	270240	0302 Business Education 2700 Computer Science 2701 Information Technology 1706 T & I Graphic Arts 0510 Journ and Mass Comm 0503 Journalism	<b>DESKTOP PUBLISHING</b> Students will develop skill in the electronic procedures of producing and editing publications. Students will create, format, illustrate, design, layout, edit/revise, and print publications including electronically produced newsletters, flyers, brochures, reports, advertising materials and other publications. Students will demonstrate document composition and communication competencies.  <b>Target Level: Grades 10-12</b>
171900	1000 Industrial Tech 1700 Other T & I Education 1706 T & I Graphic Arts	<b>T &amp; I GRAPHIC ARTS</b> A study of the theory, laboratory and shop work related to all phases of typesetting, layout, composition, presswork, lithography, photoengraving and other graphic	NAME DESCRIPTION ENDORSEMENT AND CODE CHANGE	270250	1000 Industrial Tech 1700 Other T & I Education 1706 T & I Graphic Arts 0510 Journ and Mass Comm 0503 Journalism	<b>PRINTING TECHNOLOGY</b> Students will develop knowledge of the processes required for the production of various printed products including paper, non-paper, and specialty products. Students will study copy layouts, composition, desktop publishing, photography, bindery work, job planning, and reproduction.  <b>Target Level: Grades 10-12</b>
270300		<b>INTRODUCTION TO INFORMATION TECHNOLOGY</b>	DROP COURSE	270300		
270401	2700 Computer Science 2701 Information Technology 8888 Other Endorsement	<b>COMPUTER LANGUAGE I</b> A course designed to teach problem-solving skills through the use of languages such as Visual Basic and C++. The following structured programming concepts might be included: top-down design, output design, hierarchy chart, program design, coding and testing, flow charting, editing and debugging.	NAME DESCRIPTION CHANGE	270401	2700 Computer Science 2701 Information Technology 1100 Mathematics 8888 Other Endorsement	<b>PROGRAMMING I</b> A course designed to teach problem-solving skills through the use of languages such as Visual Basic, C++, and HTML. The following structured programming concepts might be included: top-down design, output design, hierarchy chart, program design, coding and testing, flow charting, editing and debugging.  <b>Target Level: Grades 10-12</b>
270402	2700 Computer Science 2701 Information Technology 8888 Other Endorsement	<b>COMPUTER LANGUAGE II</b> A course designed to review the program development process through the introduction and use of languages such as: Visual Basic, Java, C++, PASCAL, FORTRAN, COBOL, RPG and Machine Language.	NAME DESCRIPTION CHANGE	270402	2700 Computer Science 2701 Information Technology 1100 Mathematics 8888 Other Endorsement	<b>PROGRAMMING II</b> Students will demonstrate the program development process through the introduction and use of languages such as C++, Visual Basic, Java, HTML, SQL, RPG, COBOL, and Assembler.  <b>Target Level: Grades 10-12</b>

## Career Education - Communication and Information Systems Career Field (270...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
			NEW COURSE	270403	2700 Computer Science 2701 Information Technology 1100 Mathematics	<p><b>PROGRAMMING III</b> Students will demonstrate advanced skills in the program development process through expanded use of programming language. Languages may include, but are not limited to C++, Visual Basic, Java, HTML, SQL, RPG, COBOL and Assembler. Students demonstrating advanced level programming knowledge and skills may be exposed to collaborative environments that simulate project environments.</p> <p><b>Target Level: Grades 11-12</b></p>
270501	Computer Science 2700 Information Technology 2701 Other Endorsement 8888	<p><b>COMPUTER APPLICATIONS I</b> A course designed to include basic skills in the areas of word processing, database management, spreadsheet applications, electronic presentation, Internet, electronic communication, graphics, desktop publishing and basic web design. Students identify ethical issues pertaining to information systems and gather information about careers in technology.</p>	NAME DESCRIPTION CHANGE	270501	0301 Basic Business 0302 Business Education 2700 Computer Science 2701 Information Technology 0400 Marketing 8888 Other Endorsement	<p><b>INFORMATION TECHNOLOGY APPLICATIONS I</b> Students will demonstrate basic skills in the areas of word processing, spreadsheet applications, database applications, electronic presentation, Internet use, security issues, and electronic communication. Students manage computer operations and file storage, identify ethical issues pertaining to information systems, and learn about information technology careers.</p> <p><b>Target Level: Grades 9-10</b></p>
270502	Computer Science 2700 Information Technology 2701 Other Endorsement 8888	<p><b>COMPUTER APPLICATIONS II</b> A course designed to assist students in developing proficiency in computer and technology applications. Advanced units of instruction may cover database management, trouble shooting, electronic communication, desktop publishing, Internet, interactive media, operating systems, network systems, presentation and web design. Students identify ethical issues pertaining to information systems and gather information about careers in technology. Programming may or may not be part of this course. Students may be given the opportunity to complete industry certification requirements.</p>	NAME DESCRIPTION ENDORSEMENT CHANGE	270502	0301 Basic Business 0302 Business Education 2700 Computer Science 2701 Information Technology 8888 Other Endorsement	<p><b>INFORMATION TECHNOLOGY APPLICATIONS II</b> Students will develop skills in advanced word processing and spreadsheet applications as well as integrating applications using word processing, spreadsheet, database and electronic presentation software. Students will develop skills in desktop publishing, including page layout and formatting, and web page development by creating and editing web pages. Students will demonstrate knowledge of advanced operating systems principles, basic computer troubleshooting, Internet security issues, ethical issues pertaining to information systems, and virus protection.</p> <p><b>Target Level: Grades 9-10</b></p>
			NEW COURSE	270503	0302 Business Education 2700 Computer Science 2701 Information Technology	<p><b>INFORMATION TECHNOLOGY APPLICATIONS III</b> Students will work with a variety of software to develop items, such as desktop-published documents, digital media, podcasts, and E-portfolios. Students will develop skills in storyboarding, digital video capturing and editing, beginning animation, photo editing and web design. A project-based approach is used through the integration of a variety of digital media.</p> <p><b>Target Level: Grades 10-12</b></p>

## Career Education - Communication and Information Systems Career Field (270...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
			NEW COURSE	270504	2700 Computer Science 2701 Information Technology	<b>INFORMATION TECHNOLOGY FUNDAMENTALS</b> Students are introduced to information technology and voice, video, and data communications and will demonstrate knowledge and problem-solving skills in the area of operating systems and computer hardware and understand information technology's ethical issues. Units would include, but not be limited to storage and drives, system boards, processors, memory and peripherals. Students may have the opportunity to build a computer, install the operating systems, and add peripherals. Help-desk skills may be included in the course.  <b>Target Level: Grades 10-12</b>
270601	Computer Science 2700 Information Technology 2701 Other Endorsement 8888	<b>NETWORK SYSTEMS</b> A course designed to provide students the opportunity to understand and work with hubs, switches and routers. Students will develop an understanding of LAN (local area network), WAN (wide area network), wireless connectivity and Internet-based communication with strong emphasis on LAN function, design and installation practices. Skills acquired in the design, installation, maintenance and management of network systems will assist students in obtaining network certifications	NAME DESCRIPTION CHANGE	270601	2700 Computer Science 2701 Information Technology 8888 Other Endorsement	<b>NETWORK SYSTEMS</b> Students will demonstrate knowledge of working with voice, video, and data networks, including hubs, switches and routers. Students will develop an understanding of LAN (local area network), WAN (wide area network), wireless connectivity and Internet-based communication with strong emphasis on LAN function, design, and installation practices.  <b>Target Level: Grades 10-12</b>
270602	0302 Business Education  2700 Computer Science 2701 Information Technology 8888 Other Endorsement	<b>INTERACTIVE MEDIA AND WEB DESIGN</b> A course designed as a capstone course for students to create, design and produce interactive media products and services. The course emphasizes the development of digitally-generated and/or computer-enhanced media.	NAME DESCRIPTION CHANGE	270602	0302 Business Education 2700 Computer Science 2701 Information Technology 8888 Other Endorsement	<b>DIGITAL MEDIA</b> Students will create, design and produce digital media programs including sound, video, graphics, text, animation and motion graphics. Emphasis will be placed on effective use of tools for interactive multimedia production including storyboarding, visual development, project management and web processes.  <b>Target Level: Grades 10-12</b>
100702	1000 Industrial Tech 1700 Other T & I Education 1706 T & I Graphic Arts 0	<b>COMMUNICATION/GRAPHIC ARTS</b> The study of information and skills concerned with graphics reproduction, as well as related factors such as occupations, economics and consumer information  <i>(Was Ind. Tech/T &amp; I Course)</i>	NAME DESCRIPTION ENDORSEMENT AND CODE CHANGE	270603	1000 Industrial Tech 1700 Other T & I Education 1706 T & I Graphic Arts 0302 Business Education 0400 Marketing	<b>GRAPHIC DESIGN</b> Students will apply artistic and computer techniques to communicate ideas and information to customer audiences through illustration and other forms of digital or printed media. Students will demonstrate concept design, layout, and color theory.  <b>Target Level: Grades 10-12</b>

***Career Education - Communication and Information Systems Career Field (270...)***

<b>OLD COURSES</b>			<b>NEW COURSES</b>			
<b>Code</b>	<b>Clearing Endorsements</b>	<b>Description</b>	<b>Status</b>	<b>Code</b>	<b>Endorsements</b>	<b>New Description</b>
			<b>NEW COURSE</b>	<b>270604</b>	0302 Business Education 2700 Computer Science 2701 Information Technology	<b>WEB DESIGN AND DEVELOPMENT</b> Students will demonstrate knowledge of web design and languages, including HTML, and utilize web design software to develop web pages. Students will apply principles and elements of design using images, hyperlinks, tables, forms, and cascading style sheets. Students may also maintain a school web site.  <b>Target Level: Grades 10-12</b>
			<b>NEW COURSE</b>	<b>270605</b>	0302 Business Education 2700 Computer Science 2701 Information Technology	<b>DATABASE DESIGN AND DEVELOPMENT</b> A course designed to provide an introduction to the concepts of relational databases, the application of databases to business situations, and the management of relational databases and the tools associated with them. Students will utilize basic SQL syntax.  <b>Target Level: Grades 11-12</b>
279930 - 279934	2700 Computer Science 2701 Information Technology 8888 Other Endorsement	<b>COMPUTER EDUCATION, OTHER</b> Programs or courses not otherwise listed or classifiable.	<b>NAME DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>279930</b> - <b>279934</b>	0302 Business Education 2700 Computer Science 2701 Information Technology 8888 Other Endorsement	<b>COMMUNICATION AND INFORMATION SYSTEMS, OTHER</b> Programs or courses not otherwise listed or classifiable.  Using codes 279930 through 279934 means you can add five “other” courses by using one code for each one of the five courses.  <b>Target Level: Grades 9-12</b>

## Career Education - Environmental and Agricultural Systems Career Field (010...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
011000		<p><b>INTRODUCTION TO AGRICULTURE/NATURAL RESOURCES SYSTEMS</b> This comprehensive course provides orientation to and instruction in agriculture experience program and basic record keeping, introduction to leadership development and the FFA organization and career exploration.</p>	<b>NAME AND COURSE DESCRIPTION CHANGE</b>	011000	0100 Agriculture	<p><b>INTRODUCTION TO ENVIRONMENTAL AND AGRICULTURE SCIENCE</b> The introductory course for the Agriculture, Food and Natural Resources Career Cluster providing a knowledge base and technical skills in all aspects of the industry. Learners will be exposed to a broad range of agriculture, food and natural resources careers, cluster foundation knowledge and skills, introduction to leadership development, the FFA organization and career exploration. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
011001		<p><b>COMPREHENSIVE AGRICULTURE/NATURAL RESOURCES ANIMAL SCIENCE</b> Year-long course in animal science and related careers including instruction in the livestock industry, livestock evaluation and selection, managing livestock enterprises, nutrition and genetics, marketing, processing livestock products and record keeping. Other instruction may include companion animals, leadership, FFA and the Supervised Agricultural Experiences (SAE)</p>	<b>COURSE DESCRIPTION CHANGE</b>	011001	0100 Agriculture	<p><b>COMPREHENSIVE AGRICULTURE/NATURAL RESOURCES ANIMAL SCIENCE</b> Year-long course in animal science and related careers including instruction in the livestock industry, livestock evaluation and selection, managing livestock enterprises, nutrition and genetics, marketing, processing livestock products and record keeping. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
011002		<p><b>COMPREHENSIVE AGRICULTURE/NATURAL RESOURCES PLANT AND SOIL SCIENCE</b> Year-long course in plant and soil science and related careers including instruction in crop science/management, soil science, surveying and field mapping, Global Positioning Systems (GPS), genetics forage management, sustainable agriculture, alternative crops, processing plant commodities and technology. Other instruction may include horticulture, leadership FFA and the Supervised Agriculture Experiences (SAE).</p>	<b>COURSE DESCRIPTION CHANGE</b>	011002	0100 Agriculture	<p><b>COMPREHENSIVE AGRICULTURE/NATURAL RESOURCES PLANT AND SOIL SCIENCE</b> Year-long course in plant and soil science and related careers including instruction in crop science/management, soil science, surveying and field mapping, Global Positioning Systems (GPS), genetics forage management, sustainable agriculture, alternative crops, processing plant commodities and technology. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>

## Career Education - Environmental and Agricultural Systems Career Field (010...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
011003		<p><b>COMPREHENSIVE AGRICULTURE/NATURAL RESOURCES AGRIBUSINESS/FARM MANAGEMENT</b>                      Year-long course in agriculture/farm management and related careers including instruction in agribusiness management, horticulture, farm management, marketing, computer usage, record keeping and analysis, entrepreneurship, international agriculture, agricultural law, and technology. Other instruction may include leadership, FFA and the Supervised Agriculture Experience (SAE).</p>	<b>COURSE DESCRIPTION CHANGE</b>	011003	0100 Agriculture	<p><b>COMPREHENSIVE AGRICULTURE/NATURAL RESOURCES AGRIBUSINESS/FARM MANAGEMENT</b>                      Year-long course in agriculture/farm management and related careers including instruction in agribusiness management, horticulture, farm management, marketing, record keeping and analysis, entrepreneurship, international agriculture, and agricultural law. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
011004		<p><b>ANIMAL SCIENCE</b>                      Instruction provided in a semester animal science and related careers course includes common livestock anatomy, livestock, animal reproduction, artificial insemination and waste management ( for ecology). Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	<b>COURSE DESCRIPTION CHANGE</b>	011004	0100 Agriculture	<p><b>ANIMAL SCIENCE</b>                      A course focusing on the basic scientific principles and processes that are involved in animal physiology, breeding, nutrition, and care in preparation for an animal systems career major. Topics include animal diseases, introduction to animal science, animal nutrition, animal science issues, career opportunities and animal evaluation Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
011005		<p><b>LIVESTOCK PRODUCTION</b>                      Instruction provided in semester livestock production and related careers course includes introduction to the livestock industry, feeding livestock, maintaining animal health, beef cattle management, swine management, sheep management, dairy cattle management and marketing livestock/livestock products. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE)</p>	<b>NAME AND COURSE DESCRIPTION CHANGE</b>	011005	0100 Agriculture	<p><b>ADVANCED ANIMAL SCIENCE</b>                      This course includes advanced scientific principles and communication skills that build on the knowledge and skills learned in Introduction to Animal Systems. Topics include animal waste management, animal science economics, decision making, global concerns in the industry, genetics, and breeding. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
011006		<p><b>SMALL ANIMAL CARE</b>                      Instruction provided in a semester long small animal care and related careers course including animal care/management, zoo keeping, lag animals, pet shops, dog grooming, kennel operations and veterinary assistant. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	<b>NAME AND COURSE DESCRIPTION CHANGE</b>	011006	0100 Agriculture	<p><b>COMPANION ANIMALS</b>                      A course providing instruction on animal husbandry topics related to small animals that are served by a veterinarian. This course includes breeding, grooming, care and marketing of companion animals. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>

## Career Education - Environmental and Agricultural Systems Career Field (010...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
011007		<p><b>PLANT AND SOIL SCIENCE</b> Instruction provide in a semester long plant and soil science and related careers course includes introduction to plant science, basic plant processes, plant growth/development, plant disease identification/control, elementary study of soils, fertilizers and soil conservation practices. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	NAME AND COURSE DESCRIPTION CHANGE	011007	0100 Agriculture	<p><b>PLANT SCIENCE</b> This course focuses on knowledge, information, and skills related to the science of plant production and agronomy. The curriculum is carried out through lecture, application, and experience to provide the necessary skills for careers in horticulture, agricultural production and management, and science. The content includes plant growth and reproduction, biotechnology and research, fertilizers, plant and tree identification, controlling weeds and pests, and sage and proper use of agricultural chemicals. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
011008		<p><b>CROP PRODUCTION</b> Instruction provided in a semester long crop production and related careers course includes Nebraska crops, planning cropping systems, seed selection, land preparation, planting, harvesting, storage, crop chemicals, marketing and specific crop production areas. Other instruction may include leadership FFA and Supervised Agricultural Experiences (SAE).</p>	NAME AND COURSE DESCRIPTION CHANGE	011008	0100 Agriculture	<p><b>ADVANCED PLANT SCIENCE</b> This course includes advanced scientific principles and communication skills that build on knowledge and skills learned in Introduction to Plant Systems. Topics include plant science economics, decision making, global concerns in the industry, genetics, and breeding. Work-based learning strategies are used to reinforce content, including but not limited to internships, agriscience projects, apprenticeships and supervised agriculture experiences. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
			NEW COURSE	011009	0100 Agriculture	<p><b>AGRIBUSINESS</b> This course covers skills necessary for entry into employment or furthering education in an agriculture business. The course includes the study of business organizations, business structures, job responsibilities, job applications and interviewing, human relations, marketing, selling, displaying, using business machines, management and entrepreneurship skills. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>

***Career Education - Environmental and Agricultural Systems Career Field (010...)***

<b>OLD COURSES</b>			<b>NEW COURSES</b>			
<b>Code</b>	<b>Clearing Endorsements</b>	<b>Description</b>	<b>Status</b>	<b>Code</b>	<b>Endorsements</b>	<b>New Description</b>
			<b>NEW COURSE</b>	<b>011010</b>	0100 Agriculture	<p><b>ADVANCED AGRIBUSINESS</b>                      This course builds on the knowledge and skills covered in the Introduction to Ag Marketing, Business and Entrepreneurship. Content includes developing a mission statement to guide business activities, agribusiness leadership and management in the free enterprise system, economic principals, budgeting, finance, risk management, business law, marketing and careers in agribusiness. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
			<b>NEW COURSE</b>	<b>011011</b>	0100 Agriculture	<p><b>AGRICULTURAL SALES</b>                      This course covers the fundamentals and techniques of successful selling, developing sales personality and the selling cycle. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
			<b>NEW COURSE</b>	<b>011014</b>	0100 Agriculture	<p><b>EQUINE SCIENCE</b>                      A course focusing on the basic scientific principles and processes related to equine physiology, breeding, nutrition and care in preparation for a career in the equine industry. Skills in biology, chemistry and mathematics are reinforced in this course, Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
			<b>NEW COURSE</b>	<b>011015</b>	0100 Agriculture	<p><b>VETERINARY SCIENCE</b>                      Introduces students to the basics of animal care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>

## Career Education - Environmental and Agricultural Systems Career Field (010...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
			NEW COURSE	011016	0100 Agriculture	<p><b>BIOTECHNOLOGY IN ANIMAL SCIENCE</b> This course provides instruction in the technologically advanced world of animal systems and life sciences, with exposure to the latest techniques and advances in animal biotechnology. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
012000		<p><b>HORTICULTURE</b> Instruction provided in a semester long horticulture and related careers course includes an over view of the horticulture industry, basic plant science, soil science, greenhouse operations, pest management, horticulture plant tools/equipment, lawn care/maintenance, gardening, floriculture, plant taxonomy, plant propagation, house plants, nursery/bedding plants and vegetable production. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	COURSE DESCRIPTION CHANGE	012000	0100 Agriculture	<p><b>HORTICULTURE</b> This course focuses on the broad field of horticulture, with emphasis on the scientific and technical knowledge for a career in horticulture. Topics in this course include plant growth and development, plant nutrition, media selection, basic plant identification, pest management, chemical disposal, and customer relations. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
012001		<p><b>LANDSCAPING, NURSERY AND GARDENING</b> Instruction provided in a semester long landscaping, nursery, gardening and related careers course includes landscape design, plant identification/selection, landscape practices, nursery practices, care/use of ornamental shrubs, turf/grounds maintenance, vegetable gardening, fruit production, landscaping/nursery/gardening industry and growing structures. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	NAME AND COURSE DESCRIPTION CHANGE	012001	0100 Agriculture	<p><b>LANDSCAPE AND NURSERY MANAGEMENT</b> Introduces students to the principles of design, methods of establishing and maintaining landscapes, and landscape business management procedures. Includes arranging plants, objects, and earth in the landscape; covers culture and maintenance of plants. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
012002		<p><b>FLORICULTURE AND GREENHOUSE MANAGEMENT</b> Instruction provided in a semester long floriculture/greenhouse management and related careers course includes potted plant production, growing media, cultural operations, plant growing structures, potted plant production, retail floristry principles, floral plant identification and construction of floral design. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	NAME AND COURSE DESCRIPTION CHANGE	012002	0100 Agriculture	<p><b>FLORICULTURE</b> Introduces business procedures, design principles, and production techniques used in retail and wholesale floral businesses. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>

## Career Education - Environmental and Agricultural Systems Career Field (010...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
			NEW COURSE	012003	0100 Agriculture	<p><b>TURF MANAGEMENT</b> Introduces procedures to establish, manage, and maintain ornamental or recreational turf, to prepare and maintain athletic fields and playing surfaces and to produce and market turf. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
			NEW COURSE	012004	0100 Agriculture	<p><b>BIOTECHNOLOGY IN PLANT SCIENCE</b> Introduces the scientific theories and principles used in the production and management of plants for food, feed, fiber, soil conservation, and aesthetic value. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
013000		<p><b>NATURAL RESOURCE MANAEMENT</b> Instruction provided in a semester long natural resource management and related careers course includes natural resource management orientation/awareness, water conservation, wildlife management, pollution, forest resources, resources management, government and the environment and a natural resources practicum. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	NAME AND COURSE DESCRIPTION CHANGE	013000	0100 Agriculture	<p><b>NATURAL RESOURCES</b> A course that provides an opportunity for students to increase awareness of the close ties among living organisms as well as natural and environmental concerns with the interrelationships of living organisms and the world around us. Students are exposed to careers related to natural resources systems. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
013001		<p><b>WILDLIFE MANAGEMENT</b> Instruction provided in a semester long wildlife management and related careers course includes the importance of wildlife management, wildlife/fish management history, administration, ecology, wildlife/fish species, management of special wildlife areas and a fish/wildlife practicum. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	COURSE DESCRIPTION CHANGE	013001	0100 Agriculture	<p><b>WILDLIFE MANAGEMENT</b> This course has an emphasis on the conservation of natural resources including outdoor recreation topics and provides students with the opportunity to understand and appreciate the importance of maintaining the land and ecological systems that enable non-domesticated animals to thrive. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities</p> <p><b>Target Level: Grades 9-12</b></p>

***Career Education - Environmental and Agricultural Systems Career Field (010...)***

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
013002		<p><b>ENVIRONMENTAL AGRICULTURE: ENERGY, NATURAL RESOURCES AND THE ENVIRONMENT</b>                      Instruction provided in a semester long environmental agriculture course: energy, natural resources, the environment and related careers course includes the importance and scope of natural resources/energy/environment, environment policies, population demographics, water resources management, urban/agricultural water use, waste water management, air quality, hazardous materials and natural resources for energy. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	<p align="center"><b>NAME AND COURSE DESCRIPTION CHANGE</b></p>	013002	0100 Agriculture	<p><b>ENVIRONMENTAL SERVICE SYSTEMS</b>                      This course provides science-based, practical experience in environmental science including agricultural/industrial chemical issues, habitat preservation/restoration, remediation of damaged resources, conservation practices, environmental law and current environmental issues. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities</p> <p><b>Target Level: Grades 9-12</b></p>
			<p align="center"><b>NEW COURSE</b></p>	013003	0100 Agriculture	<p><b>SCIENCE OF EARTH SYSTEMS</b>                      This course introduces students to the importance g efforts in understanding and caring for Earth and its systems. It brings together the interactions that occur in the living and non-living world, and provides students with a solid understanding of the processes that take place on and around Earth and the synergies that exist between them. Topics covered include the role of science and technology in society; matter and energy; astronomy; geology; meteorology; oceanography; biology; environmental science. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities</p> <p><b>Target Level: Grade 9-12</b></p>
			<p align="center"><b>NEW COURSE</b></p>	013004	0100 Agriculture	<p><b>ENVIRONMENTAL SCIENCE</b>                      Explores biological, physical, and social aspects of the environment and environmental issues including methods to abate or control environmental pollution and collateral damage. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grade 9-12</b></p>

***Career Education - Environmental and Agricultural Systems Career Field (010...)***

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
			NEW COURSE	013005	0100 Agriculture	<p><b>ECOLOGY OF AGRICULTURE</b> Ecology of Agriculture is the study of the interactions between living organisms and their environment. In Ecology of Agricultural students will examines the ecology of agricultural systems and the natural resources required to sustain them. The focus of the course is to discover and understand the principles behind the interactions that occur in agroecosystems, and to use these principles to develop more sustainable methods for managing agroecosystems. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities</p> <p><b>Target Level: Grades 9-12</b></p>
014000		<p><b>FOOD SCIENCE</b> Instruction provided in a semester long food science and related careers course includes the food science industry, food packaging/labeling, sensory evaluation of foods, marketing food products, constituents of food, nutritive aspects of food constituents, operation of food industry, food microbiology, food processing and food science practicum. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	NAME AND COURSE DESCRIPTION CHANGE	014000	0100 Agriculture 0903 Family/Consumer Science 0902 Fam/Cnsmr Reltd Occ	<p><b>INTRODUCTION TO FOOD SCIENCE</b> A course that introduces students to the principles, applications and science of food and food processing and production. Students will learn the scientific principles and practice scientific applications involved in the food industry including food science, food processing, microbiology, toxicology, regulations concerning the protection of the food supply and organic production of food and nutrition. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities</p> <p><b>Target Level: Grades 9-12</b></p>
			NEW COURSE	014001	0100 Agriculture 0903 Family/Consumer Science 0902 Fam/Cnsmr Reltd Occ	<p><b>ADVANCED FOOD SCIENCE</b> Students will apply food science principles to enhance product development with particular emphasis on USDA/FDA standards, and nutritional analysis and evaluation of food groups. Students will analyze product preparation options to prepare products for distribution and utilize preservation methods to develop food preservation programs. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities</p> <p><b>Target Level: Grades 9-12</b></p>

***Career Education - Environmental and Agricultural Systems Career Field (010...)***

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
			NEW COURSE	014002	0100 Agriculture	<p><b>BIOTECHNOLOGY IN FOOD PRODUCTS AND PROCESSING SYSTEM</b>                      Introduces the scientific theories and principles used in the food products and processing systems. The food processing industry is the oldest and largest industry using biotechnological processes. Further development of food products and processes based on biotechnology, will be discussed. Topics covered include fermentation, immobilized biocatalyst technology, and production of additives and processing aids, as well as the development of new opportunities for food biotechnology. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities</p> <p><b>Target Level: Grade 9-12</b></p>
015000		<p><b>AGRICULTURAL BUSINESS MANAGEMENT</b>                      Instruction provided in a semester long agricultural business management and related careers course includes types of business arrangements, attributes of successful managers, agricultural accounting concepts and government programs. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE)</p>	SAME	015000		<p><b>AGRICULTURAL BUSINESS MANAGEMENT</b>                      Instruction provided in a semester long agricultural business management and related careers course includes types of business arrangements, attributes of successful managers, agricultural accounting concepts and government programs. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities</p> <p><b>Target Level: Grade 9-12</b></p>
016000		<p><b>COMPREHENSIVE AGRICULTURE/NATURAL RESOURCES AGRICULTURAL MECHANICS/EQUIPMENT/STRUCTURES/TECHONOLOGIES</b>                      Year-long course in agricultural mechanics and related careers including instruction in tools and equipment, large and small engines, power, welding, carpentry, building construction farm operations, electricity, farm equipment setup and maintenance and safety. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	NAME AND COURSE DESCRIPTION CHANGE	016000	0100 Agriculture	<p><b>POWER, STRUCTURAL, AND TECHNICAL SYSTEMS</b>                      This course introduces selected major areas of agricultural mechanics technology including small engine operation and repair, metal fabrication, woodworking, and electrical wiring,. Learning activities include basic understanding, skill development and problem-solving. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>

***Career Education - Environmental and Agricultural Systems Career Field (010...)***

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
			NEW COURSE	016003	0100 Agriculture	<p><b>ADVANCED POWER, STRUCTURAL AND TECHNICAL SYSTEMS</b>                      Provides advanced-level experiences in selected major areas of agricultural mechanics technology; includes small engine maintenance and repair, metal fabrication, concrete construction, building construction, plumbing, electrical wiring, maintenance of agricultural machinery, equipment and tractors, and soil and water conservation. Learning activities include basic understanding, skill development and problem-solving. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grade 9-12</b></p>
			NEW COURSE	016004	0100 Agriculture 1000 Industrial Technology 1700 T&I Occupations-Other	<p><b>AGRICULTURAL MECHANICS AND TECHNOLOGY</b>                      This course is designed to provide students with a more in-depth study of agricultural power and machinery. This course also provides the opportunity to explore the many career possibilities in the field of agricultural power and machinery. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
			NEW COURSE	016005	0100 Agriculture 1000 Industrial Technology 1704 T&I Metals 1700 T&I Occupations-Other	<p><b>METAL FABRICATION</b>                      This course provides an in-depth study of metals and fabrication with metal products. It also provides the opportunity to explore the careers in agricultural metal fabrication. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>
016002	0100 Agriculture 1000 Industrial Technology 1810 Middle Grades Ag 1816 Middle Grades ITE	<p><b>WOODS AND CONSTRUCTION</b>                      Instruction provided in a semester includes basic safety, drawing/sketching, bill of material, fasteners, rafter framing, concrete, spray painting, plumbing, building structures and the surveying level. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).</p>	NAME, COURSE DESCRIPTION AND ENDORSEMENT CHANGE	016002	0100 Agriculture 1000 Industrial Technology 1704 T&I Construction 1700 T&I Occupations-Other	<p><b>STRUCTURAL FABRICATION</b>                      This course provides an in-depth study of agricultural construction. It also provides the opportunity to explore the many career possibilities in the field of agricultural construction. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.</p> <p><b>Target Level: Grades 9-12</b></p>

## Career Education - Environmental and Agricultural Systems Career Field (010...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
017000		<b>LEADERSHIP AND HUMAN RESOURCE DEVELOPMENT</b> Instruction provided in a semester long leadership, human resource development and related careers course includes leadership in a community, leadership concepts/applications, characteristics of an effective leader, characteristics of an effective manager and related practicum. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE).	<b>NAME AND COURSE DESCRIPTION CHANGE</b>	<b>017000</b>	0100 Agriculture	<b>LEADERSHIP</b> Instruction provided in a semester long leadership, human resource development and related careers course includes leadership in a community, leadership concepts/applications, characteristics of an effective leader, characteristics of an effective manager and related practicum. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities  <b>Target Level: Grades 11-12</b>
017100		<b>AGRICULTURE COOPERATIVE EDUCATION CLASS</b>	<b>DROP COURSE</b>	<b>017100</b>		
018000		<b>AGRICULTURAL ENRICHMENT (AWARENESS)</b>	<b>DROP COURSE</b>	<b>018000</b>		
018001		<b>AGRICULTURAL CAREER EXPLORATION</b>	<b>DROP COURSE</b>	<b>018001</b>		
018002	0100 Agriculture 1810 Middle Grades/Ag Ed	<b>AGRICULTURAL ENRICHMENT AND CAREER EXPLORATION</b>	<b>NAME AND COURSE DESCRIPTION CHANGE</b>	<b>018002</b>	0100 Agriculture 1810 Middle Grades/Ag Ed	<b>CAREERS AND LITERACY OF AGRICULTURE</b> Agricultural knowledge enrichment and career exploration instruction is provided. Other instruction may include leadership, FFA and Supervised Agricultural Experiences (SAE),  <b>Target Level: Middle/Junior High</b>
019930- 019934	0100 Agriculture 1810 Middle Grades/Ag Ed	<b>AGRICULTURE, OTHER</b> Programs or courses not listed or classified. This code may be used for such courses as: Agricultural Education Project Records, Independent Study Student Assistant, Aquaculture, International Agriculture	<b>COURSE DESCRIPTION CHANGE</b>	<b>019930</b> - <b>109934</b>	0100 Agriculture 1810 Middle Grades/Ag Ed	<b>AGRICULTURE, OTHER</b> Programs or courses not listed or classified. This code may be used for such courses as: Independent Study , Aquaculture, International Agriculture

## Career Education - Health Sciences Career Field (070...)

<b>OLD COURSES</b>			<b>NEW COURSES</b>			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
077200	0700 Health Occupations 0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse	<p><b>EXPLORATION OF HEALTH CARE OCCUPATIONS</b> A course to introduce Health Care Careers within the five pathways. This course may provide experiences along with information and knowledge related to the health care field.</p> <p><b>Target Level: Grades 6-8</b></p>	<b>NAME AND DESCRIPTION CHANGE</b>	<b>077200</b>	0700 Health Occupations 0903 Famly/Consmr Science 2510 School Nurse	<p><b>EXPLORATION OF HEALTH SCIENCES</b> A course to introduce Health Science careers within the five pathways. This course may provide experiences along with information and knowledge related to the health care field.</p> <p><b>Target Level: Middle/Junior High</b></p>
079901		<b>HEALTH RELATED OCCUPATIONS</b>	<b>DROP COURSE</b>	<b>079901</b>		
077300	0700 Health Occupations 0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse	<p><b>INTRODUCTION TO HEALTH SCIENCES</b> A course to increase the Knowledge and skills of Health Care Careers within the five pathways. Topics covered may include (but not limited to) health care are: health care delivery, patient care, (including assessment of vital signs, body mechanics, and diet), identification and use of medical equipment and supplies, medical terminology, hygiene and disease prevention, first aid and CPR procedures, laboratory procedures, ethical and legal responsibilities.</p> <p><b>Target Level: Grades 9-12</b></p>	<b>ENDORSEMENT CHANGE</b>	<b>077300</b>	0700 Health Occupations 0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse 1303 Biology 1301 Natural Science 1819 General Science	<p><b>INTRODUCTION TO HEALTH SCIENCES</b> A course to increase the Knowledge and skills of Health Care Careers within the five pathways. Topics covered may include (but not limited to) health care are: health care delivery, patient care, (including assessment of vital signs, body mechanics, and diet), identification and use of medical equipment and supplies, medical terminology, hygiene and disease prevention, first aid and CPR procedures, laboratory procedures, ethical and legal responsibilities.</p> <p><b>Target Level: Grades 9-12</b></p>
077301	0700 Health Occupations 0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse	<p><b>ADVANCED HEALTH SCIENCE</b> A course to increate the knowledge and skills of health science careers. Topics covered may include (but not limited to) ethics and professionalism, HIPAA, JACHO, careers specific to body systems, topics related to hospital/clinic/business, medical language and job shadowing/volunteering</p> <p><b>Target Level: Grades 9-12</b></p>	<b>ENDORSEMENT CHANGE</b>	<b>077301</b>	0700 Health Occupations 0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse 1303 Biology 1301 Natural Science 1819 General Science	<p><b>ADVANCED HEALTH SCIENCE</b> A course to increate the knowledge and skills of health science careers. Topics covered may include (but not limited to) ethics and professionalism, HIPAA, JACHO, careers specific to body systems, topics related to hospital/clinic/business, medical language and job shadowing/volunteering</p> <p><b>Target Level: Grades 9-12</b></p>
077400	0700 Health Occupations 0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse	<p><b>INTRODUCTION TO NURSING</b> A course designed with a special emphasis on the knowledge and skills required of nurses and nursing assistants. Topics may include normal growth and development; bathing, feeding, dressing and transporting patients; basic pharmacology; doctor nurse, and patient relationships and roles; medical and professional ethics; death and dying; and care of various kinds of patients (chronically ill, children, new mothers, etc.)</p> <p><b>Target Level: Grades 9-12</b></p>	<b>ENDORSEMENT AND NAME CHANGE</b>	<b>077400</b>	0700 Health Occupations 0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse 1303 Biology 1301 Natural Science 1819 General Science	<p><b>INTRODUCTION TO NURSING</b> A course designed with a special emphasis on the knowledge and skills required of nurses and nursing assistants. Topics may include normal growth and development; bathing, feeding, dressing and transporting patients; basic pharmacology; doctor nurse, and patient relationships and roles; medical and professional ethics; death and dying; and care of various kinds of patients (chronically ill, children, new mothers, etc.)</p> <p><b>Target Level: Grades 9-12</b></p>

## Career Education - Health Sciences Career Field (070...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
077500	0700 Health Occupations 0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse 1303 Biology 1301 Natural Science 1819 General Science	<b>INTRODUCTION TO SPORTS MEDICINE</b> This course is designed for students who may be interested in a career in Sports Medicine. This course should feature the prevention, recognition, treatment, and rehabilitation of activities caused by physical activity or athletics. Topics may include taping and bandaging, proper use of protective padding, treatment modalities, anatomy and physiology, medical terminology. Students may learn to measure cardio respiratory endurance, flexibility, body composition, and blood pressure. CPR/AED certification is a prerequisite for this course or a required outcome of the course.  <b>Target Level: Grades 9-12</b>	<b>ENDORSEMENT CHANGE</b>	<b>077500</b>	0700 Health Occupations 0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse 1303 Biology 1301 Natural Science 1819 General Science	<b>INTRODUCTION TO SPORTS MEDICINE</b> This course is designed for students who may be interested in a career in Sports Medicine. This course should feature the prevention, recognition, treatment, and rehabilitation of activities caused by physical activity or athletics. Topics may include taping and bandaging, proper use of protective padding, treatment modalities, anatomy and physiology, medical terminology. Students may learn to measure cardio respiratory endurance, flexibility, body composition, and blood pressure. CPR/AED certification is a prerequisite for this course or a required outcome of the course.  <b>Target Level: Grades 9-12</b>
077600	0700 Health Occupations 0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse 1303 Biology 1301 Natural Science 1819 General Science	<b>MEDICAL TERMINOLOGY</b> This course is designed to help students learn medical language by analyzing their components. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions.  <b>Target Level: Grades 9-12</b>	<b>ENDORSEMENT CHANGE</b>	<b>077600</b>	0700 Health Occupations 0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse 1303 Biology 1301 Natural Science 1819 General Science	<b>MEDICAL TERMINOLOGY</b> This course is designed to help students learn medical language by analyzing their components. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions.  <b>Target Level: Grades 9-12</b>
077000	0700 Health Occupations 0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse	<b>CLINICAL NUTRITION</b> The principles of nutrition and its relationship to individual health throughout the life cycle including how the nutrients have an effect on personal health. This course may encompass principles and concepts of sports nutrition and/or clinical nutrition.  <b>Target Level: Grades 9-12</b>	<b>NO CHANGE</b>	<b>077000</b>	0700 Health Occupations 0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse	<b>CLINICAL NUTRITION</b> The principles of nutrition and its relationship to individual health throughout the life cycle including how the nutrients have an effect on personal health. This course may encompass principles and concepts of sports nutrition and/or clinical nutrition.  <b>Target Level: Grades 9-12</b>
077100		<b>HEALTH OCCUPATIONS COOP EDUCATION CLASS</b>	<b>DROP COURSE</b>	<b>077100</b>		
077930-077934	0700 Health Occupations 0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse 1303 Biology 1301 Natural Science 1819 General Science	<b>HEALTH SCIENCES – OTHER</b> Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences  <b>Target Level: Grades 9-12</b>	<b>ENDORSEMENT CHANGE</b>	<b>077930-077934</b>	0700 Health Occupations 0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ 2510 School Nurse 1303 Biology 1301 Natural Science 1819 General Science	<b>HEALTH SCIENCES – OTHER</b> Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences  <b>Target Level: Grades 9-12</b>

## Career Education - Human Services and Resources Career Field (090...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
090001	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking 1813 Middle Grades-FCS	<b>EXPLORATORY FAMILY AND CONSUMER SCIENCES</b> The first course offered in a sequence of courses in which students explore several of the subject matter areas in Family and Consumer Sciences. The intent is to help students understand the breadth of the work of the family and begin to examine the interconnections of family, career and community. This course is commonly taught in the middle/junior high schools but may be used for a 9th grade course if that is the first course offered.	<b>COURSE DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090001</b>	0903 Famly/Consmr Science 1813 Middle Grades-FCS	<b>EXPLORATORY FAMILY AND CONSUMER SCIENCES</b> Students explore several of the subject matter areas in family and consumer sciences. The intent is to help students take personal responsibility in and understand the breadth of the work of the family and begin to examine the interconnections of family, career and community.  <b>Target Level: Middle/Junior High</b>
090002	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking 1813 Middle Grades-FCS	<b>INTRODUCTION TO FAMILY AND CONSUMER SCIENCES</b> The second course offered in a sequence of courses in which students continue to be introduced to the subject matter areas in family and consumer sciences. The intent is to help students understand the breadth of the work of the family and continuing to examine the interconnections of family, career, and community. This course is commonly taught in the middle/junior high areas.	<b>COURSE DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090002</b>	0903 Famly/Consmr Science 1813 Middle Grades-FCS	<b>INTRODUCTION TO FAMILY AND CONSUMER SCIENCES</b> Students continue to be introduced to the subject matter areas in family and consumer sciences. The intent is to help students understand the breadth of and social responsibility inherent in the work of the family and continuing to examine the interconnections of family, career, and community.  <b>Target Level: Middle/Junior High</b>
090003	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking 1813 Middle Grades-FCS	<b>COMPREHENSIVE FAMILY AND CONSUMER SCIENCES</b> Study, including content from several of the subject matter areas in Family and Consumer Sciences, emphasizing basic principles and interrelationships among these areas as well as the reasoning processes needed to address concerns of individuals, families, and society. The focus is on making reasoned decisions and taking responsible action related to the work of the family and examining the interconnections of family, career and community.	<b>ENDORSEMENT CHANGE</b>	<b>090003</b>	0903 Famly/Consmr Science 1813 Middle Grades-FCS	<b>COMPREHENSIVE FAMILY AND CONSUMER SCIENCES</b> Study, including content from several of the subject matter areas in Family and Consumer Sciences, emphasizing basic principles and interrelationships among these areas as well as the reasoning processes needed to address concerns of individuals, families, and society. The focus is on making reasoned decisions and taking responsible action related to the work of the family and examining the interconnections of family, career and community.  <b>Target Level: Middle/Junior High</b>
090004	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking	<b>INTEGRATED FAMILY AND CONSUMER SCIENCES</b> An advanced comprehensive study that examines recurring concerns from several of the subject matter areas in Family and Consumer Sciences emphasizing basic principles and interrelationships among these areas as well as the reasoning processes needed to address concerns of individuals, families and society. The focus is on making reasoned decisions and taking responsible action related to the work of the family and examining the interconnections of family, career and community.	<b>COURSE DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090004</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>INTEGRATED FAMILY AND CONSUMER SCIENCES</b> An advanced comprehensive study that examines the recurring concerns surrounding families, making reasoned decisions related to those concerns and taking responsible action related to their decisions. Utilizes the context of the family to examine leadership, ethics, productivity, self direction and social responsibility. Also examines the interconnections of family, career and community responsibilities.  <b>Target Level: Grades 10-12</b>

## Career Education - Human Services and Resources Career Field (090...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
090102	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking	<b>PARENTING/CHILD DEVELOPMENT</b> Study concerned with parenting readiness, parenting decisions, and parenting practices and/or a study of child development (physical, mental, emotional and social) and the impact of a child on family life.	<b>NAME DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090102</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>HUMAN DEVELOPMENT</b> Study of human development (physical, mental, emotional and social) from infant through adolescence or the entire life span. Includes how to develop positive interactions with and guiding the development of each age.  <b>Target Level: Grades 10-12</b>
090103	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking	<b>CLOTHING AND TEXTILES</b> The social, psychological and physiological aspects of clothing and textiles. Includes selection, construction, maintenance and alteration of textile products.	<b>COURSE DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090103</b>	0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>CLOTHING AND TEXTILES</b> Instruction which provides students with an understanding of the social, psychological and physiological aspects of clothing and textiles; fabric and apparel design; selection, construction, maintenance and alteration of textile products; and, exposure to careers related to clothing and fashion design/marketing.  <b>Target Level: Grades 10-12</b>
090104	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking	<b>CONSUMER ECONOMICS</b> A course that includes a study of wants and needs; values, goals, and standards; the change process; understanding the economic system; resource management and decision-making, life-style choices, career exploration and job-seeking skills; budgeting and financial management (includes banking, credit, investments, insurance, crisis management, planning for children, housing, transportation, food); and consumer behavior (includes consumer rights and responsibilities, comparative shopping, consumer protection and impact of marketing/advertising).	<b>NAME DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090104</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>LIFE AND CAREER ESSENTIALS – FINANCIAL LITERACY</b> A financial literacy course that provides students with the tools to take charge of their personal financial well-being and to make sound personal financial decisions. Units of study include budgeting, credit, insurance, savings and investments, home ownership, banking and taxes. Life/work literacy concepts such as workplace issues and community resources are examined.  <b>Target Level: Grade 12</b>
090105	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking	<b>INDEPENDENT LIVING/ADULT LIVING</b> Comprehensive, practical, instruction focusing on mastery of effective independent living and survival skills with underlying themes of consumerism, decision making and problem solving.	<b>NAME DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090105</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>LIFE AND CAREER ESSENTIALS– RELATIONSHIP LITERACY</b> Application of critical thinking, decision-making and problem solving skills to issues impacting adult relationships. Includes self-understanding, establishing and maintaining positive relationships in the family and workplace, crisis management and building family strengths. Life/work literacy concepts such as wellness across the lifespan and stress management are examined.  <b>Target Level: Grade 12</b>

## Career Education - Human Services and Resources Career Field (090...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
090106	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking	<b>FAMILY RELATIONS/HUMAN RELATIONS</b> The study of nature, functions, and nurturance of human relationships in family and individual units.	<b>NAME DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090106</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>FAMILY RELATIONSHIPS</b> The study of the family as an institution and the roles and responsibilities of family members. Would include concepts such as communication, establishing and maintaining a couple relationship, exploring strong families, the impact of children in families, parenting responsibilities and conflict management.  <b>Target Level: Grades 10-12</b>
090107	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking	<b>NUTRITION AND FOOD</b> The principles of nutrition and its relationship to individual health; the selection, preparation and care of food; meal management; food economics and ecology; and maximizing the food dollar.	<b>COURSE DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090107</b>	0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>NUTRITION AND FOOD</b> Provides students with knowledge and skills about food preparation, with a strong emphasis on nutrition and nutritional analysis, balanced diets, and satisfying special dietary needs. Includes safety and sanitation, proper use of equipment, meal planning and preparation, current food issues, the role of food in the family and global society and the demonstration of teamwork skills.  <b>Target Level: Grades 10-12</b>
090108		<b>HOME MANAGEMENT</b>	<b>DROP COURSE</b>	<b>090108</b>		
			<b>NEW COURSE</b>	<b>090115</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>SPORTS NUTRITION</b> Addresses the special nutritional needs of athletes and all persons who are physically active. Includes training diets, pre and post competition food intake, nutritional supplements, weight management and eating disorders. Exploration of careers requiring understanding of sports nutrition.  <b>Target Level: Grades 10-12</b>
090109 (1.471)	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking	<b>HOUSING AND HOME FURNISHINGS</b> Study of physical, psychological and social influences of housing on people. Emphasis may be on the varied types of housing: cost; exterior and interior design; selection, use and care of home furnishings and equipment; and use of available resources for achieving improved living space to meet individual and family needs.	<b>COURSE DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090109</b>	0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>HOUSING AND HOME FURNISHINGS</b> Instruction which provides students with an understanding of the physical, psychological and social influences of housing; housing styles and options, exterior and interior design; selection, use and care of home furnishings and equipment; use of available resources for achieving improved living space to meet individual and family needs; and, exposure to careers related to housing and home furnishings.  <b>Target Level: Grades 10-12</b>

## Career Education - Human Services and Resources Career Field (090...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
090110	0902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking 0801 Health 2304 Health &Phys Educ 1813 Middle Grades FCS 1815 Middle Grades H & PE	<b>FAMILY HEALTH</b> Instruction related to establishing and maintaining a lifestyle which promotes personal fitness, family health and related consumer skills. May include an examination of all aspects of health (physical, social, emotional and mental), nutrition and fitness (including weight control), substance use and abuse, home safety and family life education (including death and dying).	<b>ENDORSEMENT CHANGE</b>	<b>090110</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 0801 Health 2304 Health & Phys Educ 1813 Middle Grades-FCS 1815 Middle Grades H & PE	<b>SAME AS CURRENT TITLE/DESCRIPTION</b>  <b>Target Level: Grades 6-12</b>
090111	0902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking 1508 Psychology 1501 Social Science	<b>APPLIED PSYCHOLOGY</b> A course that uses the theoretical principles of psychology with the practical application of examples relevant to students. Students will learn how behavior relates to an individual's sense of control and thinking to contribute more positively to society through studying the concepts of: the study of behavior, lifespan (development psychology), personality, behaving with others (social psychology) and physiological aspects of behavior.	<b>ENDORSEMENT CHANGE</b>	<b>090111</b>	0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ 1508 Psychology 1501 Social Science	<b>SAME AS CURRENT TITLE AND DESCRIPTION</b>  <b>Target Level: Grades 10-12</b>
090112	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking	<b>FAMILY AND CONSUMER SCIENCES CAREERS</b> Study in which students explore own interests and abilities in relationship to potential career choices; develop a life plan for achieving individual, family and career goals; examine the reciprocal nature of work and family; and demonstrate problem solving, teamwork, communication, conflict resolution, leadership and self-management skills.	<b>NAME DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090112</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>INTRODUCTION TO HUMAN SERVICES AND RESOURCES</b> Students will experience how the concepts of communication, ethics, leadership and teamwork relate to the Human Services and Resources Career Field. Students will consider these concepts as applied to their multiple roles of family member, wage earner and citizens. Clusters to be explored in this career field are: (1) Human Services, (2) Government & Public Administration, (3) Law, Public Safety & Security and (4) Education & Training.  <b>Target Level: Grades 9-12</b>
090113	902 Fam/Cnsmr Rltd Occ 1208 Family/Cons SVCS 0903 Family/Consmr Sci 0901 Homemaking 0100 Agriculture	<b>FOOD SCIENCE</b> Instruction provided in a semester food science and related careers course including the food science industry, food packaging/labeling, sensory evaluation of foods, marketing food products, constituents of foods, nutritive aspects of food constituents, operation of food industry, food microbiology, food processing and food sciences applications.	<b>COURSE DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>090113</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 0100 Agriculture	<b>FOOD SCIENCE</b> Instruction which provides students with an understanding of the food science industry, food packaging/labeling, sensory evaluation of foods, marketing food products, constituents of foods, nutritive aspects of food constituents, operation of food industry, food microbiology, food processing and food science applications, and, exposure to careers related to food science.  <b>Target Level: Grades 10-12</b>

***Career Education - Human Services and Resources Career Field (090...)***

<b>OLD COURSES</b>			<b>NEW COURSES</b>			
<b>Code</b>	<b>Clearing Endorsements</b>	<b>Description</b>	<b>Status</b>	<b>Code</b>	<b>Endorsements</b>	<b>New Description</b>
090114		<b>ENTREPRENEURSHIP IN FAMILY AND CONSUMER SCIENCES</b>		<b>090114</b>		
			<b>NEW COURSE</b>	<b>090206</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<p><b>FASHION DESIGN</b> Addresses the history of fashion, fabric art and printing, use of creativity to illustrate fashion concepts, and the application of artistic principles and techniques to the design of apparel and accessories. May include computer assisted designing, labor and cost analysis, and appropriate construction techniques. Instruction requires students to demonstrate information and media literacy skills.</p> <p><b>Target Level: Grades 10-12</b></p>
			<b>NEW COURSE</b>	<b>090116</b>	0903 Famly/Consmr Science 1813 Middle Grades-FCS	<p><b>RELATIONSHIPS</b> Study concerned with interpersonal relationships among peers, family members and in the workplace. Would include concepts such as communication, establishing and maintaining a positive relationship, conflict management, employability, leadership development and career development. May include the Skills for Adolescence (Quest) curriculum.</p> <p><b>Target Level: Middle/Junior High</b></p>
			<b>NEW COURSE</b>	<b>090117</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<p><b>CHILD CARE/PARENTING</b> Study of human development (physical, mental emotional and social) from conception through pre-school. Major emphasis is on parenting theories and practices, providing a safe environment that optimizes development, and recognition of abuse and neglect.</p> <p><b>Target Level: Grades 10-12</b></p>
			<b>NEW COURSE</b>	<b>090118</b>	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<p><b>ELDER CARE</b> Study of the biological, physiological, social and psychological needs and concerns of the elderly, and dealing with the aging process, death and dying in a realistic manner. May also offer the opportunity to explore various careers.</p> <p><b>Target Level: Grades 10-12</b></p>

## Career Education - Human Services and Resources Career Field (090...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
090201	0902 Fam/Cnsmr Rltd Occ	<b>CARE AND GUIDANCE OF CHILDREN</b> Preparation for paid employment in occupations in child care and guidance at entry, assistant, and management levels. Study by cover such areas as: child growth and development, nutrition, behavior, guidance, recreation and play activities, etc.	NAME DESCRIPTION AND ENDORSEMENT CHANGE	090201	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>EARLY CHILDHOOD EDUCATION I</b> Study would focus on preschool aged children and include areas such as: creating a learning environment, interacting with children, creating learning activities, health and safety, and nutrition. May also include parenting practices. It is recommended that students attain CPR certification by the end of this course.  <b>Target Level: Grades 10-12</b>
090202	0902 Fam/Cnsmr Rltd Occ	<b>CLOTHING MANAGEMENT, PRODUCTION AND SERVICES-OCCUPATIONAL</b>	DROP COURSE	090202		
			NEW COURSE	090119	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>EARLY CHILDHOOD EDUCATION II</b> An examination of various types of early childhood, the licensure requirements related to each, program planning and evaluation, and working with special needs children. It is recommended that students complete the educational requirements for Child Development Associate certification by the end of the two-course sequence.  <b>Target Level: Grades 10-12</b>
32022	8888 Other Endorsements	<b>EDUCATION AND TRAINING</b> This code is used for courses that prepare students for careers in the Education and Training Career Cluster	NAME DESCRIPTION AND ENDORSEMENT CHANGE	090300	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 8888 Other Endorsements	<b>CAREERS IN EDUCATION</b> Introduces students to the principles underlying teaching and learning from preschool through adult education. Topics would include classroom management, leadership and human relations skills, teaching strategies, responsibilities of teachers, legal parameters and the structure of the formal and informal educational system.  <b>Target Level: Grades 10-12</b>
090204	0902 Fam/Cnsmr Rltd Occ	<b>HOME FURNISHINGS, EQUIPMENT AND SERVICES-OCCUPATIONAL</b>	DROP COURSE	090204		
			NEW COURSE	090310	0903 Famly/Consmr Science 0902 Fam/Cnsmr Reltd Occ 8888 Other Endorsements	<b>EXPERIENCING TEACHING</b> Provides students with volunteer experience in fields related to education. Goals are cooperatively set by student and supervising teacher so that students increase their understanding about the roles and responsibilities of a teacher. May include experiencing teaching in a controlled setting by designing learning experiences and giving presentations. Classroom instruction could include questioning, developing objectives and assessments, safety practices, IEP development and technology applications.  <b>Target Level: Grades 10-12</b>

***Career Education - Human Services and Resources Career Field (090...)***

<b>OLD COURSES</b>			<b>NEW COURSES</b>			
<b>Code</b>	<b>Clearing Endorsements</b>	<b>Description</b>	<b>Status</b>	<b>Code</b>	<b>Endorsements</b>	<b>New Description</b>
090205	0902 Fam/Cnsmr Reltd Occ	<b>INSTITUTIONAL, HOME MANAGEMENT- SUPPORT SERVICES- OCCUPATIONAL</b>	<b>DROP COURSE</b>	<b>090205</b>		
			<b>NEW COURSE</b>	<b>090207</b>	0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ	<b>HOME FURNISHINGS PRODUCTION</b> Students plan, select and construct upholstery, slip covers, draperies and other window treatments, and other home accessories. Includes interior design principles, proper use of equipment, employability skills and exposure to careers related to home furnishings. May be taught from an entrepreneurial perspective.  <b>Target Level: Grades 10-12</b>
			<b>NEW COURSE</b>	<b>090400</b>	8888 Other Endorsement	<b>LAW, PUBLIC SAFETY AND SECURITY</b> An exploration of the five pathways of this career cluster: correction services, emergency and fire management services, law enforcement services, legal services and security and protective services, including exposure to careers within all pathways.  <b>Target Level: Grades 10-12</b>
			<b>NEW COURSE</b>	<b>090410</b>	8888 Other Endorsement	<b>INTRODUCTION TO CRIMINAL JUSTICE</b> An overview of the history, development and philosophies for crime control and the role of law enforcement within a democratic society. Topics would include an examination of the criminal justice system with an emphasis on the police, the courts (prosecution and defense) and the correctional agencies, and exposure to careers related to criminal justice.  <b>Target Level: Grades 10-12</b>
			<b>NEW COURSE</b>	<b>090500</b>	8888 Other Endorsement	<b>INTRODUCTION TO FIRE AND EMERGENCY SERVICES</b> An introduction to fire prevention and control including the chemistry of combustion, factors that influence fire and safety procedures. May also introduce students to the organization and regulations of fire departments, emergency medical procedures and fire investigation techniques.  <b>Target Level: Grades 10-12</b>

***Career Education - Human Services and Resources Career Field (090...)***

<b>OLD COURSES</b>			<b>NEW COURSES</b>			
<b>Code</b>	<b>Clearing Endorsements</b>	<b>Description</b>	<b>Status</b>	<b>Code</b>	<b>Endorsements</b>	<b>New Description</b>
097100		<b>OCC FCS - COOPERATIVE CLASS</b>	<b>DROP COURSE</b>	<b>097100</b>		
099930-099934	0902 Fam/Cnsmr Rltd Occ	<b>FAMILY AND CONSUMER SCIENCES, OTHER</b> - Family and Consumer Sciences courses not otherwise listed or classifiable. May include Skills for Adolescence (Quest), Technology and Living, Home Management.	<b>NAME DESCRIPTION AND ENDORSEMENT CHANGE</b>	<b>099930</b> - <b>099934</b>	0903 Family/Consmr Science 0902 Fam/Cnsmr Reltd Occ 8888 Other Endorsement	<b>HUMAN SERVICES AND RESOURCES, OTHER</b> Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security; and/or Government and Public Administration.
099970-099974	0902 Fam/Cnsmr Rltd Occ	<b>OCCUPATIONAL FAMILY AND CONSUMER SCIENCES, OTHER</b>	<b>DROP COURSE</b>	<b>099970</b> - <b>099974</b>		

## Career Education - Industrial, Manufacturing, and Engineering Systems Career Field (100...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
100100		<p><b>CONSTRUCTION</b> The study of the technology and/or socio-economic contributions of those industries concerned with residential, industrial and transportation structures. Learning activities are usually centered around scaled structures, involve research, design, engineering, masonry, carpentry, etc.</p>	NAME COURSE DESCRIPTION CHANGE	100100	1000 Industrial Technology 1701 T&I Construction 1700 T&I Occupations-Other	<p><b>INTRODUCTION TO THE BUILT ENVIRONMENT</b> A core course for the Architecture and Construction Career Cluster which will build a knowledge base and technical skills in all aspects of the industry. Learners will be exposed to a broad range of architecture and construction careers and cluster foundation knowledge and skills. Participation in SkillsUSA will reinforce cluster knowledge and skills.</p> <p><b>Target: 9-12</b></p>
			NEW COURSE	100110	1000 Industrial Technology 1701 T&I Construction 1700 T&I Occupations-Other	<p><b>PRINCIPLES OF CONSTRUCTION</b> This course provides an overview of the total construction process. Students will develop problem-solving and critical-thinking skills by identifying the relationship between available resources and requirements of a project/problem to accomplish realistic planning.</p> <p><b>Target: 9-12</b></p>
			NEW COURSE	100120	1000 Industrial Technology 1701 T&I Construction 1700 T&I Occupations-Other	<p><b>APPLICATIONS IN CONSTRUCTION</b> Students will develop skills that relate to the construction industry. Course content will include steps for managing project assignments in a timely manner and development of skills for working as individuals and as team members to accomplish assignments. Students will complete a capstone construction project as a part of the course that utilizes the knowledge and skills learned in the pathway.</p> <p><b>Target: 11-12</b></p>
100300		<p><b>COMMUNICATIONS/DRAFTING</b></p>	DROP COURSE	100300		
			NAME COURSE DESCRIPTION CHANGE	100130	1000 Industrial Technology 1705 T&I Drafting 1700 T&I Occupations-Other	<p><b>THE LANGUAGE OF ARCHITECTURE AND CONSTRUCTION</b> A core course that will build the skills necessary to understand what is being communicated through drawings and documents, and in turn, convey ideas, duties, and tasks to others in a form representing the industry. Students will use and follow industry specific verbal and visual skills to accomplish workplace/jobsite communications.</p> <p><b>Target: 9-12</b></p>

## Career Education - Industrial, Manufacturing, and Engineering Systems Career Field (100...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
100301		COMMUNICATIONS/COMPUTER AIDED DRAFTING (CAD)	DROP COURSE	100301		
			NEW COURSE	100131	1000 Industrial Technology 1705 T&I Drafting 1700 T&I Occupations-Other	<p><b>INTRODUCTION TO ARCHITECTURE TECHNOLOGY</b> Students will integrate structural systems, environmental systems, safety systems, building envelope systems, and building service systems to design buildings. Students will review traditional project phases and various roles to plan for and implement phases within a project. Students will develop preliminary drawings and computer-generated plans that will be used in design and pre-construction.</p> <p><b>Target: 10-12</b></p>
			NEW COURSE	100140	1000 Industrial Technology 1705 T&I Drafting 1700 T&I Occupations-Other	<p><b>PRINCIPLES OF DESIGN AND PRE-CONSTRUCTION</b> This course provides an overview of processes used in design and pre-construction. Students will develop problem-solving and critical-thinking skills by identifying the relationship between available resources and requirements of a project/problem to accomplish realistic planning.</p> <p><b>Target: 9-12</b></p>
			NEW COURSE	100141	1000 Industrial Technology 1705 T&I Drafting 1700 T&I Occupations-Other	<p><b>APPLICATIONS IN DESIGN AND PRE-CONSTRUCTION</b> Students will develop skills that relate to design and pre-construction. Course content will include steps for managing project assignments in a timely manner and development of skills for working as individuals and as team members to accomplish assignments. Students will complete a capstone project that utilizes the knowledge and skills learned in the design and pre-construction pathway.</p> <p><b>Target: 10-12</b></p>
100401		<p><b>COMMUNICATIONS/ELECTRONICS</b> A category of information and skills concerned with energy including theory, applications and control as they relate to electrically powered equipment; to various kinds of communications equipment; and to relate factors such as occupations, economics and consumer education.</p>	NAME COURSE DESCRIPTION CHANGE	100401	1000 Industrial Technology 1703 T&I Electricity-Electronics 1700 T&I Occupations-Other	<p><b>ELECTRONICS - COMPREHENSIVE</b> Electronics – Comprehensive courses provide a survey of the theory, terminology, equipment, and practical experience in the skills needed for careers in the electronic field as well as typically cover the theory of electricity. Course topics may include AC, DC, analog, and integrated circuitry and solid state and digital devices, amplifiers, and semiconductors. Skills covered involve the repair, maintenance, and building of electronic equipment such as radios, television sets, and industrial equipment.</p> <p><b>Target: 10-12</b></p>

## Career Education - Industrial, Manufacturing, and Engineering Systems Career Field (100...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
100402		CONSTRUCTION/ELECTRICITY	DROP COURSE	100402		
			NEW COURSE	100403	1000 Industrial Technology 1703 T&I Electricity-Electronics 1700 T&I Occupations-Other	<b>DIGITAL ELECTRONICS</b> Students will explore the application of electronic circuits and devices. Students use their knowledge of both computer simulation and breadboards to design, build and test their own circuits. Students will use a mathematical logic approach to simplify complex circuits.  <b>Target: 10-12</b>
			NEW COURSE	100404	1000 Industrial Technology 1701 T&I Construction 1703T&I Electricity-Electronics 1700T&I Occupations-Other	<b>ELECTRICITY IN THE CONSTRUCTION INDUSTRY</b> The study of various mechanical, electrical and electronics systems in residential, commercial and industrial structures. Basic electrical/electronic theory as it relates to heating and air conditioning, illumination and automated systems are included throughout the course. Basic consumer knowledge about generation of electricity, its transmission and distribution will also be included.  <b>Target: 9-12</b>
			NEW COURSE	100405	1000 Industrial Technology 1703 T&I Electricity-Electronics 1700 T&I Occupations-Other	<b>ELECTRICITY – COMPREHENSIVE</b> Comprehensive courses provide a survey of the theory, terminology, equipment, and practical experience in the skills needed for careers in the electrical field. These courses typically include AC and DC circuitry, safety, and the National Electrical Code and may cover such skills as those involved in building circuits; wiring residential, commercial, and/or industrial buildings; installing lighting, power circuits, and cables; and estimating job costs.  <b>Target: 9-12</b>
100500		<b>TECHNOLOGY EDUCATION</b> Industrial technology courses that expose students to new and emerging technologies that affect our industrial/technical society. A wide range of technologies may be covered that focus on the instructional clusters of: communications, manufacturing, transportation and construction. Examples of instruction may include, but not be limited to: lasers. Fiber optics, electronics, robotics, computer technologies, CAD/CAM, computer graphics design and audiovisual communications.	NAME COURSE DESCRIPTION CHANGE	100500	1000 Industrial Technology 1816 Middle Grades/Industrial Tech 1700 T&I Occupations-Other	<b>TECHNOLOGY EDUCATION</b> Industrial technology courses that expose students to new and emerging technologies that affect our industrial/technical society. A wide range of technologies may be covered that focus on the instructional clusters of: communications, manufacturing, transportation and construction. Examples of instruction may include, but not be limited to: lasers. Fiber optics, electronics, robotics, computer technologies, CAD/CAM, computer graphics design and audiovisual communications.  <b>Target: 7-10</b>

## Career Education - Industrial, Manufacturing, and Engineering Systems Career Field (100...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
100501	1000 Industrial Technology 1816 Middle Grades/Industrial Tech 1700 T&I Occupations-Other	<b>TECHNOLOGY ENGINEERING DESIGN</b> Research and development course provides students the opportunity to focus on one or more areas of industrial technology. Students pursue new knowledge or solve technological problems by designing and building prototypes and working models. Appropriate information is learned and integrated studies are applied in order to complete projects. This code should also be used for "Project Lead The Way" (pre-engineering) courses.	<b>NAME COURSE DESCRIPTION CHANGE</b>	<b>100501</b>	1000 Industrial Technology 1816 Middle Grades/Ind Tech 1700 T&I Occupations-Other	<b>GATEWAY TO TECHNOLOGY</b> Students will understand how the use of math, science and technology are used to solve everyday problems. They will demonstrate competency by using "activity oriented" instructional units that relate technology to students' daily lives.  <b>Target: Middle/Junior High</b>
100503		<b>PRINCIPLES OF TECHNOLOGY I</b> Principles of Technology is an applied physics course designed to prepare students more effectively for technical careers. The course includes instruction and application of principles of physics such as force transformers, power, energy, resistance, rate, work, force, momentum waves and vibrations, energy converters, transducers radiating optical systems. Application of the principles is conducted in a laboratory setting which demonstrates the use of these principles by workers in technical occupations. Note: A two year curriculum for this course has been designed and is most effective when team taught by a Physics teacher and an Industrial Technology teacher.	<b>NO CHANGE</b>	<b>100503</b>	1000 Industrial Technology 1700 T&I Occupations-Other	<b>PRINCIPLES OF TECHNOLOGY</b> Principles of Technology is an applied physics course designed to prepare students more effectively for technical careers. The course includes instruction and application of principles of physics such as force transformers, power, energy, resistance, rate, work, force, momentum waves and vibrations, energy converters, transducers radiating optical systems. Application of the principles is conducted in a laboratory setting which demonstrates the use of these principles by workers in technical occupations. Note: A two year curriculum for this course has been designed and is most effective when team taught by a Physics teacher and an Industrial Technology teacher  <b>Target: 9-12</b>
100504		<b>PRINCIPLES OF TECHNOLOGY II</b>	<b>DROP COURSE</b>	<b>100504</b>		
100700	1000 Industrial Technology 1816 Middle Grades/Industrial Tech	<b>INDUSTRIAL TECHNOLOGY, GENERAL</b> The study of two or more separate and somewhat distinct aspects of industry and technology. Learning experiences involve activities such as experimenting, designing, construction, evaluating and using a variety of tools, materials and processes.	<b>NAME COURSE DESCRIPTION CHANGE</b>	<b>100700</b>	1000 Industrial Technology 1816 Middle Grades/Ind Tech	<b>EXPLORING INDUSTRIAL, MANUFACTURING AND ENGINEERING SYSTEMS</b> The study of two or more separate and somewhat distinct aspects of industry and technology. Learning experiences involve activities such as experimenting, designing, construction, evaluating and using a variety of tools, materials and processes.  <b>Target: Middle/Junior High</b>
100702		<b>GRAPHIC ARTS</b>	<b>DROP COURSE</b>	<b>100702</b>		
100800		<b>CONSTRUCTION/HOME MAINTENANCE</b> The study of the tools, materials and processes involved in the upkeep and repair of the home, its equipment and devices. Learning activities are centered on typical problems encountered by the homeowner and include simple maintenance, repairs and construction.	<b>NAME COURSE DESCRIPTION CHANGE</b>	<b>100800</b>	1000 Industrial Technology 1701 T&I Construction 1700 T&I Occupations-Other	<b>PRINCIPLES OF MAINTENANCE AND OPERATIONS</b> This course provides an overview of processes used in maintenance and operations occupations within the architecture and construction cluster. Students will develop problem-solving and critical-thinking skills by identifying the relationship between available resources and requirements of a project/problem to accomplish realistic planning  <b>Target: 9-12</b>

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OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
171000		<p><b>CONSTRUCTION AND MAINTENANCE TRADES</b> Classroom and laboratory experiences concerned with the erection, installation, maintenance or repair of buildings, highways and any other structures or components of the built environment using a variety of materials.</p>	<b>NAME COURSE DESCRIPTION AND CODE CHANGE</b>	<b>100150</b>	1000 Industrial Technology 1701 T&I Construction 1700 T&I Occupations-Other	<p><b>RESTORATION AND REPAIR OF EXISTING STRUCTURES</b> Students will apply skills to restore or repair existing structures. Students will develop skills of using basic troubleshooting procedures to solve maintenance problems. Students will learn evaluation strategies to assess problems and plan solutions; identify the tools, materials and human resources needed to complete the work, and complete the work to restore to the original condition.</p> <p><b>Target: 11-12</b></p>
			<b>NEW COURSE</b>	<b>100160</b>	1000 Industrial Technology 1700 T&I Occupations-Other	<p><b>PRINCIPLES OF ENGINEERING</b> A course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.</p> <p><b>Target: 9-12</b></p>
			<b>NEW COURSE</b>	<b>100161</b>	1000 Industrial Technology 1700 T&I Occupations-Other	<p><b>INTRODUCTION TO ENGINEERING DESIGN</b> This course encourages students to use a problem-solving model to improve existing products and invent new ones. They learn how to apply this model to solve any problems, even outside of the classroom. Students use sophisticated three-dimension modeling software to communicate the details of these products. Emphasis is placed on analyzing potential solutions and communicating ideas to others.</p> <p><b>Target: 9-12</b></p>
			<b>NEW COURSE</b>	<b>101901</b>	1000 Industrial Technology 1704 T&I Metals 1700 T&I Occupations-Other	<p><b>COMPUTER INTEGRATED MANUFACTURING</b> Students will learn concepts of robotics and automated manufacturing by creating three-dimensional designs with modeling software and producing models of their designs.</p> <p><b>Target: 10-12</b></p>

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OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
			NEW COURSE	100162	1000 Industrial Technology 1705 T&I Drafting 1700 T&I Occupations-Other	<b>CIVIL ENGINEERING AND ARCHITECTURE</b> This course utilizes teams of students to collaborate on the development of community-based building projects and conceptual design for project presentations.  <b>Target: 10-12</b>
			NEW COURSE	100163	1000 Industrial Technology 1705 T&I Drafting 1700 T&I Occupations-Other	<b>ENGINEERING DESIGN AND DEVELOPMENT</b> An engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem.  <b>Target: 10-12</b>
			NEW COURSE	100164	1000 Industrial Technology 1705 T&I Drafting 1700 T&I Occupations-Other	<b>AEROSPACE ENGINEERING</b> Through hands-on engineering projects, students learn about aerodynamics, astronautics, space-life sciences, and systems engineering.  <b>Target: 10-12</b>
			NEW COURSE	100165	0100 Agriculture 1000 Industrial Technology	<b>BIOTECHNICAL ENGINEERING</b> An overview of relevant subjects from the diverse fields of bio-technology, bio-engineering, bio-medical engineering, and bio-molecular engineering enable students to apply and concurrently develop secondary-level knowledge and skills in biology, physics, technology, and mathematics. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities  <b>Target Level: Grades 11-12</b>
101400		MANUFACTURING/METALWORKING	DROP COURSE	101400		

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OLD COURSES			NEW COURSES				
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description	
101600		<b>TRANSPORTATION/POWER/AUTOMOTIVE MECHANICS</b> A category of information and skills concerned with the various forms of power including its generation, transmission and utilization.	NAME COURSE DESCRIPTION CHANGE	<b>101600</b>	1000 Industrial Technology 1702 T&I Auto Mechanics 1700 T&I Occupations-Other	<b>INTRODUCTION TO THE TRANSPORTATION, DISTRIBUTION AND LOGISTICS INDUSTRY (SMALL ENGINES / MOTORCYCLES)</b> Students will be introduced to the broad array of occupations in the Transportation, Distribution and Logistics Cluster by exploring these careers and examining how they match their personal interests and aptitudes. Students will develop information and skills concerned with the various forms of power including its generation, transmission and utilization. Participation in SkillsUSA will reinforce these cluster knowledge and skills.  <b>Target: 9-12</b>	
				<b>NEW COURSE</b>	<b>101610</b>	1000 Industrial Technology 1700 T&I Occupations-Other	<b>DISTRIBUTION – COMPREHENSIVE</b> Distribution – Comprehensive courses provide students with knowledge and skills related to the safe and efficient delivery of commodities to various markets. Course content typically includes the comparative advantages of various forms of transportation, distribution networks, processes for tracking large shipments of material, transportation of goods in a safe and secure manner, and packaging.  <b>Target: 10-12</b>
170300		<b>AUTOMOTIVE SERVICES</b> Classroom and laboratory experiences which include training in all phases of automotive maintenance and repair work on all types of automotive vehicles. Included may be training in the use of technical manuals and a variety of hand and power tools.		NAME COURSE DESCRIPTION AND CODE CHANGE	<b>101620</b>	1000 Industrial Technology 1702 T&I Auto Mechanics 1700 T&I Occupations-Other	<b>MOBILE EQUIPMENT PREVENTATIVE MAINTENANCE SYSTEMS / BASIC CARE</b> Students will develop and manage preventative maintenance plans and systems to meet business and equipment manufacturer requirements. Other content will include learning to monitor and evaluate the performance of maintenance plans and systems including compliance with safety and environmental requirements, and monitoring and maintaining information on the availability of parts, materials, supplies, and the management of inventory levels.  <b>Target: 10-12</b>

## Career Education - Industrial, Manufacturing, and Engineering Systems Career Field (100...)

OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
			NEW COURSE	101630	1000 Industrial Technology 1702 T&I Auto Mechanics 1700 T&I Occupations-Other	<p><b>MOBILE EQUIPMENT MAINTENANCE AND REPAIR</b> This course focuses on maintaining and improving facilities, equipment and system performance. Students will develop and manage repair plans by identifying and describing facility and mobile equipment reliability/performance problems including those associated with electrical/electronic, fluid power, mechanical systems, and computer control systems. Students will determine repair procedures and equipment, materials, parts, supplies, and labor requirements to accomplish repairs. Students will also develop plans for improving facilities, equipment, and system performance.</p> <p><b>Target: 11-12</b></p>
			NEW COURSE	101640	1000 Industrial Technology 1702 T&I Auto Mechanics 1700 T&I Occupations-Other	<p><b>AUTOMOTIVE BODY REPAIR AND REFINISHING</b> A course that provides students with knowledge and skills regarding the repair and refinishing of damaged or used cars. Course content may include (but is not limited to) stretching and shrinking auto body sheet metal; welding skills; frame and metal straightening; repair of fiberglass and synthetic materials; removing, repairing, and installing auto body parts.</p> <p><b>Target: 11-12</b></p>
101900		<p><b>MANUFACTURING/WOODWORKING</b> A category of information and skills concerned with woodworking including various manufactured wood products, the technology employed in the manufacture and construction of products using woods as well as factors such as occupations, economic and consumer information.</p>	NAME COURSE DESCRIPTION CHANGE	101900	1000 Industrial Technology 1704 T&I Metals 1700 T&I Occupations-Other	<p><b>INTRODUCTION TO MANUFACTURING / MECHATRONICS</b> This course prepares students for careers in manufacturing and for postsecondary education. The main focus is a core structure study in hydraulics, pneumatics, electrical, material testing, sensors, electric and pneumatic robot operations and an introduction to programmable logic controllers</p> <p><b>Target: 9-12</b></p>
173605		<p><b>MILLWORK AND CABINETMAKING</b> Classroom and shop experiences concerned with woodworking occupations other than construction carpentry. The use of various hand and power tools is emphasized. Specialized class and practical work experience concerned with production of products such as window frames, moldings, trim, and panels and with the making of kitchen cabinets and office equipment. Instruction includes planning layout, blueprint reading, and working with various kinds of woods.</p>	NAME COURSE DESCRIPTION AND CODE CHANGE	101920	1000 Industrial Technology 1701 T&I Construction 1700 T&I Occupations-Other	<p><b>MANUFACTURING - WOODS</b> Students will learn procedures necessary to produce a product to satisfy customer desires. This course includes content related to conducting an in-depth investigation to identify customer needs, verifying that needed resources are available, setting up production equipment, using process control data, inspecting the product, documenting product and process against customer requirements, and checking for specified quantities and proper documentation to prepare a final product for shipping or distribution.</p> <p><b>Target: 10-12</b></p>

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OLD COURSES			NEW COURSES			
Code	Clearing Endorsements	Description	Status	Code	Endorsements	New Description
101400		<p><b>MANUFACTURING/METALWORKING</b> A category of information and skills concerned with metals including the products manufactured from metals; the technology employed in the production, processing and use of metals; related factors such as occupations, economics and consumer information; and the operations used in cutting and fabricating metal products.</p>	NAME COURSE DESCRIPTION CHANGE	101400	1000 Industrial Technology 1704 T&I Metals 1700 T&I Occupations-Other	<p><b>MANUFACTURING – METALS</b> Students will learn procedures necessary to produce a product to satisfy customer desires. This course includes content related to conducting an in-depth investigation to identify customer needs, verifying that needed resources are available, setting up production equipment, using process control data, inspecting the product, documenting product and process against customer requirements, and checking for specified quantities and proper documentation to prepare a final product for shipping or distribution.</p> <p><b>Target: 10-12</b></p>
172300		<p><b>METALWORKING OCCUPATIONS</b> Organized, specialized learning experiences which include theory, laboratory and shop work related to the planning, manufacturing, assembling, testing and repairing of parts, mechanisms, machines, and structures in which materials are cast, formed, shaped, molded, heat treated, cut, twisted, bent, pressed, stamped, fused, marked or otherwise worked upon.</p>	NAME COURSE DESCRIPTION AND CODE CHANGE	101930	0100 Agriculture 1000 Industrial Technology 1704 T&I Metals 1700 T&I Occupations-Other	<p><b>MANUFACTURING – WELDING</b> Students will learn procedures necessary to produce a product to satisfy customer desires. This course includes content related to conducting an in-depth investigation to identify customer needs, verifying that needed resources are available, setting up production equipment, using process control data, inspecting the product, documenting product and process against customer requirements, and checking for specified quantities and proper documentation to prepare a final product for shipping or distribution.</p> <p><b>Target: 10-12</b></p>
			NEW COURSE	101940	0100 Agriculture 1000 Industrial Technology 1704 T&I Metals 1700 T&I Occupations-Other	<p><b>MANUFACTURING - ADVANCED WELDING</b> Provides advanced-level experiences in instruction in metals, welding and related careers course includes metal equipment identification/maintenance/safe usage, oxyacetylene, oxyacetylene welding/cutting, arc welding, arc welding/cutting, mig/tig/plasma arc welding/cutting and related practicum. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities</p> <p><b>Target Level: Grade 9-12</b></p>
			NAME COURSE DESCRIPTION CHANGE	109930 - 109934	1000 Industrial Technology 1700 T&I Occupations-Other	<p><b>INDUSTRIAL, MANUFACTURING AND ENGINEERING OTHER</b> IMES courses not otherwise listed or classified.</p>

***Career Education - Industrial, Manufacturing, and Engineering Systems Career Field (100...)***

<b>OLD COURSES</b>			<b>NEW COURSES</b>			
<b>Code</b>	<b>Clearing Endorsements</b>	<b>Description</b>	<b>Status</b>	<b>Code</b>	<b>Endorsements</b>	<b>New Description</b>
170300		AUTOMOTIVE SERVICES	DROP COURSE	170300		
171000		CONSTRUCTION AND MAINTENANCE TRADES	DROP COURSE	171000		
171300		DRAFTING OCCUPATIONS	DROP COURSE	171300		
171400		ELECTRICAL OCCUPATIONS	DROP COURSE	171400		
171450		PRINCIPLES OF TECHNOLOGY I (CAREER & TECHNICAL EDUCATION)	DROP COURSE	171450		
171451		PRINCIPLES OF TECHNOLOGY II (CAREER & TECHNICAL EDUCATION)	DROP COURSE	171451		
171500		ELECTRONICS OCCUPATIONS.	DROP COURSE	171500		
171900		T & I GRAPHIC ARTS	DROP COURSE	171900		
172300		METALWORKING OCCUPATIONS	DROP COURSE	172300		
173605		MILLWORK AND CABINETMAKING	DROP COURSE	173605		
177100		TRADE AND INDUSTRIAL COOPERATIVE EDUCATION CLASS	DROP COURSE	177100		
179930-179934		T & I OCCUPATIONS, OTHER	DROP COURSE	179930 - 179934		