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| **AGRIBUSINESS AND NATURAL RESOURCE COURSES** |

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| **Orientation to Agriscience and Career Planning** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 81001100 | 6-8 | ORIEN TO AGSCI & C P |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Agriculture, Food and Natural Resources career cluster. The content includes but is not limited to a focus on understanding the agricultural food system, environmental resources, strategies used to produce and market agricultural products, and an exploration of research through the use of the scientific method. Reinforcement of academic skills occurs through the classroom instruction and applied laboratory procedures.  Curriculum will align with Common Core State Standards. | | |

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| **Exploration of Agriscience** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 81002100 | 6-8 | EX OF AGRISCI |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Agriculture, Food and Natural Resources career cluster. The content includes but is not limited to instruction that explores the tasks, training, education and physical requirements of a broad range of agriscience and natural resources careers. Reinforcement of academic skills occurs through the classroom instruction and applied laboratory procedures.  Curriculum will align with Common Core State Standards. | | |
| *The district may earn weighted vocational FTE funding for four (4) semesters per individual middle school student. The following unweighted basic general agriculture course is to be used to enroll a particular student in an agriculture course ONLY after the student has been counted for four semesters of weighted vocational FTE.* | | |

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| **Introduction to Agriculture, Food, & Natural Resources (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8021100 | 6-8 | INTRO TO AG, FOOD, NR |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Agriculture, Food & Natural Resource career cluster. The content includes but is not limited to agricultural literacy, importance of agriculture, the role of science, math, reading, writing, geography, history, and technology in agriculture, plants and animals, and sources of consumer goods from agriculture. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. | | |
| Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Introduction to Agriculture, Food, & Natural Resources and Career Planning (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8021110 | 6-8 | INTRO TO AG & CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Agriculture, Food & Natural Resource career cluster. The content includes but is not limited to agricultural literacy, importance of agriculture, the role of science, math, reading, writing, geography, history, and technology in agriculture, plants and animals, and sources of consumer goods from agriculture. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. In addition upon completion of this course the student will have an understanding of the workplace in regards to the need for career planning, changing careers and the concept of lifelong learning. Students will acquire self-awareness in regards to their interests, values and skills needed to make career choices. Furthermore, students will be able to use the internet to access career information as well as identify skills that are transferable from one occupation to another.  Curriculum will align with Common Core State Standards. | | |

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| **Fundamentals of Agriculture, Food, & Natural Resources Systems (Year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8021300 | 6-8 | FUND OF AG SYSTEMS |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Agriculture, Food, and Natural Resources career cluster. The content includes but is not limited to agricultural literacy, importance of agriculture, role of science, math, reading, writing, geography, history, and technology in agriculture, production of livestock, plants, and vegetables in agriculture. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. After successfully completing this course students will be able to differentiate between animal welfare and ethical treatment of animals, explain skills and principles used in dairy production, livestock production, poultry production, and vegetable production. Students will also be able to demonstrate skills used in nursery production, apply scientific and technical skills in production agriculture, and manage leadership and communication skills.  Curriculum will align with Common Core State Standards. | | |

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| **Fundamentals of Agriculture, Food, & Natural Resources Services (Year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8021400 | 6-8 | FUND OF AG SYSTEMS |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Agriculture, Food, and Natural Resources career cluster. The content includes but is not limited to agricultural literacy, importance of agriculture, role of science, math, reading, writing, geography, history, and technology in agriculture, production of livestock, plants, and vegetables in agriculture. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Skills developed within this course include but are not limited to completing a profit/loss statement, create a photo story, conduct soil tests, construct an irrigation system, design a landscape, inventory an ecosystem, construct a floral design, explain/demonstrate proper care for a small animal, and more.  Curriculum will align with Common Core State Standards. | | |

**BUSINESS, MANAGEMENT, & ADMINISTRATION**

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| **M/J Business Keyboarding (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8200110 | 6-8 | BUS KEYBOARDING |
| This course is designed to provide instruction in introductory keyboarding, introductory word processing, introductory electronic presentation, introductory computer hardware, introductory Internet, and soft skills for business applications. These competencies provide the skills necessary to ensure increased productivity and efficient utilization of equipment. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J Computer Applications in Business 1**  **(semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8200520 | 6-8 | CPTR APPL BUSINESS 2 |
| Course is designed to provide instruction in intermediate keyboarding, intermediate word processing, intermediate electronic presentation, intermediate computer hardware, intermediate Internet, introductory spreadsheet, and soft skills for business applications. These competencies provide the skills necessary to ensure increased productivity and efficient utilization of equipment. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J Computer Applications in Business 2**  **(semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8200210 | 6-8 | CPTR APPL BUSINESS 2 |
| Course is designed to provide instruction in advanced keyboarding, advanced word processing, advanced hardware, advanced Internet, intermediate spreadsheet, introductory digital design, and soft skills for business applications. These competencies provide the skills necessary to ensure increased productivity and efficient utilization of equipment. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J Computer Applications in Business 3 (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8200211 | 6-8 | CPTR APPL BUSINESS 3 |
| This course is designed to provide instruction in advanced spreadsheet, intermediate digital design, introductory database, introductory web design, and soft skills for business applications. These competencies provide the skills necessary to ensure increased productivity and efficient utilization of equipment. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J Computer Applications in Business 4 (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8200212 | 6-8 | CPTR APPL BUSINESS 4 |
| This course is designed to provide instruction in intermediate database, intermediate web design, introductory programming, and soft skills for business applications. These competencies provide the skills necessary to ensure increased productivity and efficient utilization of equipment. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Introduction to Business, Management and Administration (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8370350 | 6-8 | INTRO BUSINESS |
| Beginning with a broad overview of the Business, Management and Administration career cluster, students are introduced to the terminology, careers, history, required skills, and technologies associated with each pathway. They will be provided with opportunities to do research using various web search engines to locate information, manage information technology components, and identify security-related ethical and legal IT issues associated with the Business Administration, Accounting, Administrative Support, Human Resources, and Operations Management career pathways. Students will also acquire and demonstrate characteristics and responsibilities of organizational leaders, effective communication skills, and beginning leadership skills.  Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Introduction to Business, Management and Administration and Career Planning (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8370360 | 6-8 | INTRO BUSINESS & CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Business, Management and Administration career cluster. The content includes but is not limited to fundamental knowledge and skills related to business functions in the Business, Management and Administration cluster. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Standards also covered in this course deal with understanding the workplace, self-awareness, exploring careers, goal setting and decision making, workplace skills, career and education planning, and job search. The curriculum will be aligned to the Common Core State Standards. | | |

**INFORMATION TECHNOLOGY**

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| **M/J – Exploring Information Technology Careers (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9009350 | 6-8 | EXPLOR IT CAREERS |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Information Technology career cluster. The content includes but is not limited to terminology, careers, history, required skills, and technologies associated with Network Systems, Information Support and Services, Web and Digital Communications, and Programming and Software Development pathways. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures.  Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Exploring Information Technology Careers & Career Planning (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9009360 | 6-8 | EXPLOR IT CAREERS/CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Information Technology career cluster. The content includes but is not limited to terminology, careers, history, required skills, and technologies associated with Network Systems, Information Support and Services, Web and Digital Communications, and Programming and Software Development pathways. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Fundamentals of Networking and Information Support (year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9009400 | 6-8 |  |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Information Technology career cluster. The content includes but is not limited to foundational knowledge and skills related to computer networks, information support structure, internet safety and ethics, operating systems, Open Systems Interface (OSI), Structured Query Language (SQL), and database design, structure, and operation in the information technology industry. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Fundamentals of Web and Software Development (year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9009500 | 6-8 |  |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Information Technology career cluster. The content includes but is not limited to foundational knowledge and skills related to web and software development, internet safety and ethics, operating systems, HTML, webpage design, web design software, programming languages, and software applications in the information technology industry.  Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Information & Communications Technology (ICT) Essentials 1 (year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9009110 | 6-8 | INFO & COMM TECH 1 |
| This course introduces students to core concepts associated with computers and their use. The content includes hands-on opportunities to explore various software applications, including the creation of a template-based webpage and a basic computer program, programming instruction with the use of Alice from Carnegie Mellon University, internet safety and ethics, fundamental spreadsheet skills, presentation and graphics software, webpage construction, operation and function, use of GUI authoring tool, and fundamental computer programming and logic. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Information & Communications Technology (ICT) Essentials 2 (year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9009120 | 6-8 |  |
| This course builds on ICT Essentials 1 and provides greater depth and more complex concepts and the skills/knowledge to master these concepts. Students will be provided opportunities to extend their skills with various software applications by creating more complex documents and using more complex functions, internet safety policies and ethics, complex spreadsheet functions, digital and multimedia technologies, and web authoring tools. Students will also be exposed to structured programming and the creation of a more complex computer program. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Information & Communications Technology (ICT) Essentials 3 (year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9009130 | 6-8 |  |
| This course builds on ICT Essentials 1 and ICT Essentials 2 and provides greater depth and more complex concepts and the skills/knowledge to master these concepts. In addition to working with network concepts, students will be provided opportunities to further extend their skills with various software applications by creating more complex documents, using more complex functions and technologies, Web 2.0, database, digital photography and imaging, video production, video and audio editing, Audacity, and interactive programs. Students will continue their exposure to computer programming and the creation of more complex computer programs. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J Business Leadership Skills (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8200120 | 6-8 | BUS LEAD SKS |
| The purpose of this course is to provide a comprehensive exploration of the core business themes. Students are exposed to concepts that may be further studied in individual programs in grades 9-12. Students will cover content that includes accounting, administrative support, digital publishing, entrepreneurship, international business, management, software applications and leadership skills. They will use current and emerging computer technology and software as well as information management tools. Students will learn appropriate communication skills for the workplace, tactics for conflict management, and applying mathematical strategies to business applications. The curriculum will be aligned to the Common Core State Standards. | | |
| ***\*\* This course is not eligible for Perkins funding.*** | | |

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| **Introduction to Information Technology (year course) High School Credit Course** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8207310 | 8 | INTROD TO INFO TECH |
| This course is designed to provide an introduction to information technology concepts and careers, as well as, the impact information technology has on the world, people, and industry. The content includes information technology career research, emerging technologies, operating systems, office productivity software, and specialized software applications. Students will be introduced to electronic communications techniques including e-mail and Internet services. Additional coverage will include web page design features such as basic HTML, DHTML, and XML web commands. The appropriate soft skills for developing and maintaining professional business relationships will also be covered. The curriculum will be aligned to the Common Core State Standards. | | |
| **\*NOTE REGARDING HIGH SCHOOL CREDIT COURSES** | | |
| Students earning and A or B and scoring 80% or higher on proficiency tests which include interpretive listening and reading, interpersonal communication and presentational speaking and writing, may earn high school credit for Intermediate and Advanced world language courses at the end of the school year. This credit shall apply to graduation requirements but shall not be used for grade level promotion (except to grade 12), or acceleration of graduation. Grades for courses that offer high school credit in middle school will be used to calculate high school class rank and grade point average. "For the purpose of determining the valedictorian and salutatorian a graduating 12th grader may drop high school credit courses taken in middle school from the calculation if the courses are not needed for graduation."  High school course numbers will be used only to award credit to students who meet the criteria at the end of the school year. Students will initially be enrolled in an M/J course. The M/J course number will be changed to the appropriate high school course number for those students who meet the criteria to earn high school credit. Parents who do not want their child to earn high school credit must sign and return the credit Non-Acceptance Form (PCS 2-3125) provided by the student's teacher or guidance counselor. | | |

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| **Arts, A/V Technology and Communication Career Cluster** |

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| **M/J Careers in Fashion and Interior Design (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8209100 | 6-8 | CAR IN FASH & INT |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in interior design and fashion design. The content includes but is not limited to the development of leadership skills, communication skills, and employability skills; resource management; exploration of design careers; working with textiles and elements of design; basic sewing skills; clothing choices; technology in the design industry; and completion of projects related to fashion and interior design. Curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J Careers in Fashion and Interior Design and Career Planning (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 82092000 | 6-8 | CAR IN FASH & INT & C P |
| This course is the same as Careers in Fashion and Interior Design, except that it has included the career and education planning competencies. | | |

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| **Education and Training Career Cluster** |

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| **\*Introduction to Education and Training (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8440350 | 6-8 | INTRO ED & TRAIN |
| Beginning with a broad overview of the Education and Training career cluster, students are introduced to the terminology, careers, history, required skills, and technologies associated with each pathway in the Education and Training career cluster. Additionally, they will be provided with opportunities to acquire and demonstrate beginning leadership skills.  The content includes but is not limited to planning, managing and providing educations and training services, and related learning support services. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Curriculum will be aligned to the Common Core State Standards.  The length of this course is one semester.  It may be offered for two semesters when appropriate. When offered for one semester, it is recommended that it be at the exploratory level and more in-depth when offered for two semesters. | | |

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| **M/J Fundamentals of Careers in Education**  **(semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8409100 | 6-8 | CAREERS IN EDUC |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the field of education. The content includes but is not limited to the development of leadership skills, communication skills, and employability skills; resource management; exploration of careers in the field of education; the importance of health and safety in the learning environment; children’s nutritional needs; developmental stages of children and appropriate learning activities; observation of children; and the use of technology in education-related careers. Curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J Fundamentals of Careers in Education and Career Planning (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8409200 | 6-8 | CAREERS IN EDUC & C P |
| This course is the same as Fundamentals of Careers in Education (8409100) except that it has included the career and education planning competencies. | | |

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| **Hospitality and Tourism Career Cluster** |

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| **\*Exploring Hospitality and Tourism** | | | | |
| **Course #** | **Grade(s)** | | **Abbreviated Title** | |
| 8850350 | 6-8 | | EXPL HOSP & TOUR | |
| The content includes but is not limited to the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services. Students are introduced to the terminology, careers, history, required skills, and technologies associated with each pathway in the Hospitality and Tourism career cluster Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Students will apply leadership and communication skills with information technology tools. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Curriculum will be aligned to the Common Core State Standards.  The length of this course is one semester.  It may be offered for two semesters when appropriate. When offered for one semester, it is recommended that it be at the exploratory level and more in-depth when offered for two semesters. | | | | |
| **M/J Fundamentals of Culinary Careers (semester)** | | | | |
| **Course #** | | **Grade(s)** | | **Abbreviated Title** |
| 8809200 | | 6-8 | | CULINARY CAREERS |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding culinary careers found within the hospitality industry. The content includes but is not limited to the development of leadership skills, communication skills, and employability skills; resource management; exploration of careers in the culinary; food safety and sanitation; safe, proper use of culinary tools/equipment; interpreting recipes and developing menus; basic food preparation skills; front-of-the-house and back-of-the-house responsibilities; artistic presentation of food; and the use of technology in the culinary field.  Curriculum will be aligned to the Common Core State Standards. | | | | |

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| **M/J Fundamentals of Culinary Careers and Career Planning (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8809300 | 6-8 | CULINARY CAREERS |
| This course is the same as Fundamentals of Culinary Careers (8809200) except that it has included the career and education planning competencies. | | |

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| **Human Services Career Cluster** |

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| **\*Introduction to Human Service Careers** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8960350 | 6-8 |  |
| The purpose of this course is to provide students information regarding careers in the Human Services career cluster. The Human Services Career Cluster prepares you for jobs that relate to families and human needs. Whether you want to be a social worker, a childcare provider or a hairdresser, you will be addressing human needs. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures.  Curriculum will be aligned to the Common Core State Standards.  The length of this course is one semester.  It may be offered for two semesters when appropriate. When offered for one semester, it is recommended that it be at the exploratory level and more in-depth when offered for two semesters. | | |

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| **\*Fundamentals to Human Service Careers** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8960300 | 6-8 | Fund Hum Serv Car |
| This course is designed to develop competencies in the area of human services. The content includes communications, safety, child development services, counseling and mental health services, family and community services, personal care services, consumer service and leadership skills. Laboratory-based activities are an integral part of this course. These include safe use and application of appropriate technology. Course content integrates the use of science, mathematics, reading, writing, and communication skills.  Curriculum will be aligned to the Common Core State Standards.  The length of this course is one semester.  It may be offered for two semesters when appropriate. When offered for one semester, it is recommended that it be at the exploratory level and more in-depth when offered for two semesters. | | |

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| **M/J Personal Development (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 85002300 | 6-8 | PERSONAL DEVELOP |
| The purpose of this course is to assist students with the development of self-esteem. Students will learn to develop positive skills in communication, decision-making, and interpersonal relationships. Students will also explore substance abuse, peer pressure, and self-improvement through healthy choices. Instruction and learning activities are provided in a laboratory setting using hands-on learning experiences. | | |
| \*\***This course is not eligible for Perkins funding.** | | |

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| **These courses are recommended for students in the sixth grade but not required.** |

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| **M/J Career Discovery (semester)** | | | | | |
| **Course #** | | **Grade(s)** | | **Abbreviated Title** | |
| 85001400 | | 6-8 | | CAR DISC | |
| The purpose of this course is to provide students’ preliminary experiences with skills related to a variety of careers. Course content will consist of instruction in making career choices and basic employability skills. The development of leadership and organization skills is also explored. Students will be encouraged to participate in career related learning experiences such as job shadowing or school-based enterprises. | | | | | |
| **\*\*This course is not eligible for Perkins funding.** | | | | | |
| **\*Orientation to Career Clusters (semester)** | | | | | |
| **Course #** | | **Grade(s)** | | **Abbreviated Title** | |
| 8000400 | | 6-8 | | Orient Car | |
| This course is a broad overview of the seventeen career clusters offered in Florida. This course provides hands-on introductory activities for each career cluster as well as opportunities to acquire and demonstrate beginning leadership skills. The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the seventeen career clusters. This course is a compilation of modules for each of the seventeen career clusters. It is designed to provide flexibility in course offerings. Any number of modules can be selected to comprise a course that meets the needs of students.  Refer to http://www.careerclusters.org for additional information and resources. | | | | | |
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| **Explanation of Symbols** | |
| **Symbol** | **Explanation** |
| \* | Course may be offered 2 semesters when appropriate. |
| **\*\*** | This course is not eligible for Perkins funding. |

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| **HEALTH SCIENCE EDUCATION COURSES\*** |

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| **Orientation to Health Occupations (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 84001100 | 6-8 | ORIEN TO HEALTH OCCS |
| The purpose of this course is to acquaint students with career opportunities and job requirements in health occupations which will enable students to consider career objectives and interests. Students will be provided with basic information about the kinds of jobs and workers involved the various career paths, financial rewards, occupational hazards, and educational requirements. Information concerning the practices for promoting good health is included. Special projects that are related to occupational clusters are provided. Integration of the curriculum with English, Math and Science is encouraged. Guest speakers from industry make an important contribution to the effectiveness of this program/course. Curriculum will be aligned to the Common Core State Standards. | | |

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| **Exploration of Health Occupations and Career Planning (semester)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8400210 | 6-8 | EXPL HLTH OCCS & C P |
| The purpose of this course is to give students initial exposure to the skills and attitudes associated with a broad range of occupations relating to careers in health, including job requirements and tasks performed, to assist students in making informed decisions regarding their future academic and occupational goals. Special projects that are related to each occupational cluster are provided, including role playing activities related to specific careers, visualizing x-rays, crutch walking, operating the microscope, making orthopedic casts, and specific lab procedures. Team teaching and integration of English, Math, and Science is encouraged. Guest speakers from industry make an important contribution to the effectiveness of this course. Curriculum will be aligned to the Common Core State Standards. | | |
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| **Introduction to Health Science (semester)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8709350 | 6-8 | INTRO HEALTH SCI |
| The purpose of this course is to assist students with information regarding careers in the Health Science career cluster. Students will explore proper terminology, characteristics, history, and skills required for careers in therapeutic services, diagnostics services, health informatics, medical support services and biotechnology research and development. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Curriculum will be aligned to the Common Core State Standards.  The length of this course is one semester. It may be offered for two semesters when appropriate. When offered for one semester, it is recommended that it be at the exploratory level and more in-depth when offered for two semesters. | | |

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| **INDUSTRIAL EDUCATION** |

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| **Introduction to Architecture & Construction (Semester Course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8109350 | 6-8 | INTRO ARCH & CONST |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Architecture & Construction career cluster. The content includes but is not limited to careers in designing, planning, managing, building and maintaining the built environment. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. | | |
| Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Introduction to Architecture & Construction & Career Planning (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8109360 | 6-8 | INTRO ARCH & CONS/CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Architecture & Construction career cluster. The content includes but is not limited to careers in designing, planning, managing, building and maintaining the built environment. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. In addition upon completion of this course the student will have an understanding of the workplace in regards to the need for career planning, changing careers and the concept of lifelong learning. Students will acquire self-awareness in regards to their interests, values and skills needed to make career choices. Students will be able to demonstrate personal qualities needed in the workplace such as dependability, punctuality, responsibility, integrity, and getting along with others. Students will also be able to demonstrate skills to complete a job application as well as a job interview. Furthermore, students will be able to use the internet to access career information as well as identify skills that are transferable from one occupation to another.  Curriculum will align with Common Core State Standards. | | |

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| **Fundamentals of Architecture & Construction (Year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8130300 | 6-8 | FUND OF ARCH & CONST |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Architecture and Construction career cluster. The content includes but is not limited to investigating careers, reading and drawing plans and constructing models. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Laboratory activities are an integral part of this program. These activities include instruction in the use of safety procedures, tools, equipment, materials, and processes related to these occupations. Equipment and supplies should be provided to enhance hands-on experiences for students.  Curriculum will align with Common Core State Standards. | | |

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| **FINANCE AND MARKETING EDUCATION** |

**FINANCE**

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| **M/J – Fundamentals of Finance - (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8540400 | 6-8 | FUND OF FINANCE |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Finance career cluster. It provides students with opportunities to become familiar with related careers and develop fundamental knowledge and skills in various economic systems, financial securities, banking concepts, global trade and banking functions, credit, consumer lending, and customer service in the United States. Instruction in information systems, related electronic skills, and software applications are also included. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Introduction to Finance (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8540350 | 6-8 | INTRO TO FINANCE |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Finance career cluster. The content includes but is not limited to instruction in elements of the financial industry: planning; management; finance; economics; technical and production skills; underlying principles of technology; labor issues; community issues and health, safety, and environmental issues; risk management liability; and health, life, and disability insurance. The path begins with an overview of globalization, including world factors pushing organizations to expand into other markets in order to remain viable. Students explore cultural and political differences that affect organizational operations and decision making. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Introduction to Finance and Career Planning (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8540360 | 6-8 |  |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Finance career cluster. The content includes but is not limited to instruction in elements of the financial industry: planning; management; finance; economics; technical and production skills; underlying principles of technology; labor issues; community issues and health, safety, and environmental issues; risk management liability; and health, life, and disability insurance. The path begins with an overview of globalization, including world factors pushing organizations to expand into other markets in order to remain viable. Students explore cultural and political differences that affect organizational operations and decision making. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Standards also covered in this course deal with understanding the workplace, self-awareness, exploring careers, goal setting and decision making, workplace skills, career and education planning, and job search. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J – Fundamentals of Marketing Occupations (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9380300 | 6-8 | FUND OF MARKETING |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Marketing Sales and Service career cluster. The content includes but is not limited to exposure to the skills and attitudes associated with a broad range of occupations relating to careers in marketing as well as reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Students will learn fundamentals of marketing as it relates to E-Marketing, Professional Sales, Marketing, Management, Entrepreneurship, Distribution and Logistics, Marketing Communications and Promotion, and Buying and Merchandising. This course will be aligned to the Common Core Standards. | | |

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| **M/J - Introduction to Marketing Sales and Service (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9309350 | 6-8 | INTRO MKT SAL & SR |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Marketing Sales and Service career cluster. The content includes but is not limited to exposure to the skills and attitudes associated with a broad range of occupations relating to careers in marketing as well as reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Students will be introduced to career pathways relating to E-Marketing, Professional Sales, Marketing, Management, Entrepreneurship, Distribution and Logistics, Marketing Communications and Promotion, and Buying and Merchandising. The curriculum will be aligned to the Common Core State Standards. | | |

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| **M/J - Introduction to Marketing Sales and Service Career Planning (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9309360 | 6-8 | INTRO MKT & CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Marketing Sales and Service career cluster. The content includes but is not limited to exposure to the skills and attitudes associated with a broad range of occupations relating to careers in marketing as well as reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Students will be introduced to career pathways relating to E-Marketing, Professional Sales, Marketing, Management, Entrepreneurship, Distribution and Logistics, Marketing Communications and Promotion, and Buying and Merchandising. Standards also covered in this course deal with understanding the workplace, self-awareness, exploring careers, goal setting and decision making, workplace skills, career and education planning, and job search The curriculum will be aligned to the Common Core State Standards. | | |

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| **PUBLIC SERVICE** |

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| **Introduction to Government and Public Service and Career Planning (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8900360 | 6-8 | INTRO GOV & PS/CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Government and Public Administration career cluster. The content includes but is not limited to education and information services; natural resource management; public administration; social and economic services; urban, rural and community development; transportation industry; public safety, corrections and judicial services; national defense occupations. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Fundamentals of Government and Public Administration (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8900500 | 6-8 | FUND OF GOV & PS |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Government and Public Administration career cluster. The content includes but is not limited to education and information services; natural resource management; public administration; social and economic services; urban, rural and community development; transportation industry; public safety, corrections and judicial services; national defense occupations. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Exploration of Criminal Justice Occupations**  **(Semester Course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8900220 | 6-8 | EXP OF CJ OCCS |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Law, Public Safety & Security career cluster. The student will be provided with basic information about the kinds of jobs and workers involved, the various career paths, occupational hazards, educational requirements, financial rewards, interpersonal and communication skills, and employability skills required.Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Introduction to Law, Public Service and Security (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9160350 | 6-8 |  |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Introduction to Law, Public Safety and Security career cluster Thousands of challenging educational and training opportunities are offered in the highly skilled Law, Public Safety, Corrections and Security Career Cluster. These opportunities continue to expand in the areas of corporate, industrial, homeland security and public safety. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Introduction to Law, Public Service and Security & Career Planning (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9160360 | 6-8 | INTRO LAW & PS & CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Introduction to Law, Public Safety and Security career cluster Thousands of challenging educational and training opportunities are offered in the highly skilled Law, Public Safety, Corrections and Security Career Cluster. These opportunities continue to expand in the areas of corporate, industrial, homeland security and public safety. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **TECHNOLOGY EDUCATION COURSES\*** |

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| **M/J Introduction to Technology (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 86000100 | 6-8 | INTRO TECHNOLOGY |
| Introduction to Technology students will work independently and cooperatively studying units in the characteristics, core concepts, and relationships among technologies. Hands-on work may include but not be limited to attributes of design, engineering, troubleshooting, research & design, invention, innovation, product systems, agriculture and related biotechnologies, manufacturing, construction, as well as the use and related safety knowledge to use technological tools, apparatus, equipment, systems and materials.  This course cannot be funded with Perkins funds and is usually only used for the 6th grade level.  Curriculum will align with Common Core State Standards. | | |

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| **M/J Exploring Technology (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 86000200 | 8 | EXPLOR TECHNOLOGY |
| Exploring Technology may include but not be limited to units of study in Practical Skills, Physics, Flight, Web Design, Computer Graphics & Animation, Digital Video, Robotics, Engineering Bridges and Towers, Digital Design, Energy, Power & Mechanics, Rocketry, Electronics, Research & Design, Audio Broadcasting and Lab Facility Management. Student work includes pre and posttests, research, challenge and application questions, written assessments, and hands-on manipulative work to create projects associated with the unit of study. As an alternative, units of study may be chosen and spread out over longer periods of time depending on teacher choice, budgetary concerns, and individual site-based needs.  Curriculum will align with Common Core State Standards. | | |

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| **Fundamentals of Manufacturing (Year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9260400 | 6-8 | FUND OF MANUFACTUR |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the manufacturing career cluster. This course provides students with opportunities to become familiar with related careers and develop fundamental technological literacy as they learn about the history, systems, and processes of manufacturing. In addition, the course will provide an overview of the safe use of tools and equipment used in the industry. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Introduction to Transportation, Distribution & Logistics (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9590350 | 6-8 | INTRO TO TRANSPORT |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the transportation, distribution and logistics career cluster. This includes but is not limited to coherent and rigorous content aligned with the challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the transportation, distribution and logistics career cluster; providing technical skill proficiency, and competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the transportation, distribution and logistics career cluster. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Introduction to Transportation, Distribution & Logistics & Career Planning (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9590360 | 6-8 | INTRO TO TRANS & CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the transportation, distribution and logistics career cluster. This includes but is not limited to coherent and rigorous content aligned with the challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the transportation, distribution and logistics career cluster; providing technical skill proficiency, and competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the transportation, distribution and logistics career cluster. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. In addition upon completion of this course the student will have an understanding of the workplace in regards to the need for career planning, changing careers and the concept of lifelong learning. Students will acquire self-awareness in regards to their interests, values and skills needed to make career choices. Students will be able to demonstrate personal qualities needed in the workplace such as dependability, punctuality, responsibility, integrity, and getting along with others. Students will also be able to demonstrate skills to complete a job application as well as a job interview. Furthermore, students will be able to use the internet to access career information as well as identify skills that are transferable from one occupation to another.  Curriculum will align with Common Core State Standards. | | |

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| **Fundamentals of Transportation (Year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9590400 | 6-8 | FUND OF TRANSPORT |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the transportation, distribution and logistics career cluster. This course provides students with opportunities to become familiar with related careers and develop fundamental technological literacy as they learn about the history, systems, and processes of transportation. In addition, the course will provide an overview of the safe use of tools and equipment used in the industry. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |
| **Introduction to Energy (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9709350 | 6-8 | INTRO TO ENERGY |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Energy career cluster. The content includes but is not limited to planning, managing and providing support and technical services related to the generation, transmission and distribution of various types of energy along with the design engineering, construction, maintenance, and repair of these systems. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Introduction to Manufacturing (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9260350 | 6-8 | INTRO TO MANUFACTUR |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the manufacturing career cluster. The content includes but is not limited to planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Introduction to Manufacturing and Career Planning (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9260360 | 6-8 | INTRO TO MANUF & CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the manufacturing career cluster. The content includes but is not limited to planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. In addition upon completion of this course the student will have an understanding of the workplace in regards to the need for career planning, changing careers and the concept of lifelong learning. Students will acquire self-awareness in regards to their interests, values and skills needed to make career choices. Students will be able to demonstrate personal qualities needed in the workplace such as dependability, punctuality, responsibility, integrity, and getting along with others. Students will also be able to demonstrate skills to complete a job application as well as a job interview. Furthermore, students will be able to use the internet to access career information as well as identify skills that are transferable from one occupation to another.  Curriculum will align with Common Core State Standards. | | |

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| **Introduction to Energy & Career Planning (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9709360 | 6-8 | INTRO TO ENERGY & CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Energy career cluster. The content includes but is not limited to planning, managing and providing support and technical services related to the generation, transmission and distribution of various types of energy along with the design engineering, construction, maintenance, and repair of these systems. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Fundamentals of Energy (Year course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9790300 | 6-8 | FUND OF ENERGY |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Energy career cluster. The content includes but is not limited to careers in the energy industry, various energy sources, and electrical power generation, transmission and distribution. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Curriculum will align with Common Core State Standards. | | |

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| **Expanded Opportunities for CTAE, Industrial, Technology, Agribusiness & Public Service Education** |

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| **Introduction to Arts, A/V Technology & Communication (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8209350 | 6-8 | INTRO ARTS, A/V |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Arts, A/V Technology & Communication career cluster. The content includes but is not limited to The content includes but is not limited to technology literacy, importance of Arts and AV, the role of science, math, reading, writing, history, and technology in Arts and AV, and Digital Media. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. | | |
| Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Course will align with Common Core State Standards. | | |

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| **Introduction to Arts, A/V Technology & Communication (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8209360 | 6-8 | INTRO ARTS, A/V & CP |
| The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Arts, A/V Technology & Communication career cluster. The content includes but is not limited to The content includes but is not limited to technology literacy, importance of Arts and AV, the role of science, math, reading, writing, history, and technology in Arts and AV, and Digital Media. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. In addition upon completion of this course the student will have an understanding of the workplace in regards to the need for career planning, changing careers and the concept of lifelong learning. Students will acquire self-awareness in regards to their interests, values and skills needed to make career choices. Students will be able to demonstrate personal qualities needed in the workplace such as dependability, punctuality, responsibility, integrity, and getting along with others. Students will also be able to demonstrate skills to complete a job application as well as a job interview. Furthermore, students will be able to use the internet to access career information as well as identify skills that are transferable from one occupation to another.  Course will align with Common Core State Standards. | | |

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| **Fundamentals of A/V and Print Technology (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8260300 | 6-8 | FUND OF A/V,PRINT TE |
| The purpose of this program is to give students an opportunity to apply knowledge and skills related to the area of Arts, A/V Technology and Communication. | | |
| This course will assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in Arts, A/V Technology and Communication career cluster. The content includes but is not limited to the development of leadership skills, communication skills, and employability skills; resource management; exploration of Arts and AV careers. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Course will align with Common Core State Standards. | | |

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| **Fundamentals of Telecommunications (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8260400 | 6-8 | FUND OF TELECOMM |
| The purpose of this program is to give students an opportunity to apply knowledge and skills related to the area of Arts, A/V Technology and Communication. This course will assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in Arts, A/V Technology and Communication career cluster. The content includes but is not limited to the development of leadership skills, communication skills, and employability skills; resource management; exploration of Arts and AV careers; Telecommunications the science and technology of transmitting information electronically by wires or radio signals with integrated encoding and decoding equipment. . Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Course will align with Common Core State Standards. | | |

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| **Fundamentals of Visual and Performing Arts (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8260500 | 6-8 | FUND OF VIS & PA |
| The purpose of this program is to give students an opportunity to apply knowledge and skills related to the area of Arts, A/V Technology and Communication. This course will assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in Arts, A/V Technology and Communication career cluster. The content includes but is not limited to the development of leadership skills, communication skills, and employability skills; resource management; exploration of Visual Arts, Performing Arts, Journalism and Broadcasting careers. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.  Course will align with Common Core State Standards. | | |

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| **Exploration of Communications Technology (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8600030 | 6-8 | EX COMM TECH |
| The purpose of this course is to give students an opportunity to explore the area of communication technology and its associated careers. Activities may include but not be limited to the following: model, evaluate and modify designs to transform ideas into practical solutions, making two and three dimensional representations of the designed solution, using tools, materials, and machines safely to diagnose, repair, and adjust systems, utilize electronic publishing to combine input, editing, and output into a finished product, utilize the components of layouts including type, typography and illustration to electronically manipulate the elements of a published product, develop a web page using appropriate electronic software, generate a product using optical technology.  Course will align with Common Core State Standards. | | |

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| **Exploration of Production Technology (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8600040 | 6-8 | EX PRODUCTION TECH |
| Exploration of Production Technology students will work independently and cooperatively studying units in the characteristics, core concepts, and relationships among technologies. Hands-on work may include but not be limited to attributes of design, engineering, troubleshooting, r & d, invention, innovation, product systems, manufacturing, construction and construction costs, design and plan a product and mass production system as well as the use and related safety knowledge of technological tools, apparatus, equipment, systems and materials. Students will be able to interpret construction plans and blueprints, identify construction materials, and apply skills in carpentry, plumbing, electrical, and masonry.  Course will align with Common Core State Standards. | | |

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| **Exploration of Production Technology & Career Planning (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8600042 | 6-8 | EX OF PDCT TECH & CP |
| Exploration of Production Technology & Career Planning students will work independently and cooperatively studying units in the characteristics, core concepts, and relationships among technologies. Hands-on work may include but not be limited to attributes of design, engineering, troubleshooting, r & d, invention, innovation, product systems, manufacturing, construction and construction costs, design and plan a product and mass production system as well as the use and related safety knowledge of technological tools, apparatus, equipment, systems and materials. Students will be able to interpret construction plans and blueprints, identify construction materials, and apply skills in carpentry, plumbing, electrical, and masonry. Course requirements are consistent with 8600040 Exploration of Production Technology with the addition of career and education requirements.  Course will align with Common Core State Standards. | | |

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| **Exploration of Aerospace Technology (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8600050 | 6-8 | EX AEROSPACE TECH |
| The purpose of this course is to give students an opportunity to explore the area of aerospace technology and its associated careers. Activities may include but not be limited to developing new products and systems to solve problems or to help do things that could not have been done without the help of technology, explain how technological systems can be connected to one another and modify the way they interact, use tools, materials, and machines safely to diagnose, adjust, and repair systems, design and use instruments to gather data, build aerostatic and aerodynamic vehicles, construct a solid-propellant model rocket and work with communications systems such as satellite, helium-neon laser as well as basic systems.  Course will align with Common Core State Standards. | | |

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| **Exploring Technology & Career Planning (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8600220 | 6-8 | EXPLO TECH & CAR PLA |
| Exploring Technology may include but not be limited to units of study in Practical Skills, Physics, Flight, Web Design, Computer Graphics & Animation, Digital Video, Robotics, Engineering Bridges and Towers, Digital Design, Energy, Power & Mechanics, Rocketry, Electronics, Research & Design, Audio Broadcasting and Lab Facility Management. Student work is typically done in pairs whereby activities and partners change every seven to eight days. Student work includes pre and posttests, research, challenge and application questions, written assessments, and hands-on manipulative work to create projects associated with the unit of study. As an alternative, units of study may be chosen and spread out over longer periods of time depending on teacher choice, budgetary concerns, and individual site-based needs. Course requirements are consistent with 8600020 Exploring Technology with the addition of career and education requirements.  Course will align with Common Core State Standards. | | |

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| **Exploration of Transportation Technology (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8600240 | 6-8 | EX TRANS TECH |
| The purpose of this course is to give students an opportunity to explore the area of transportation technology and its associated careers. Activities may include but not be limited to modifying the way technological systems interact with one another, making decisions about the development and use of technologies that put environmental and economic concerns in direct competition with one another, model, test, evaluate and modify designs to transform ideas into practical solutions, making two and three dimensional representations of the designed solution, using tools, materials, and machines safely to diagnose, repair, and adjust systems, disassemble and reassemble and/or perform maintenance on a muscle-powered bicycle, a pneumatic device or hydraulic device, an internal combustion engine, an electrical motor, alternator or generator, construct, maintain/repair a land, water, or air/space vehicle.  Course will align with Common Core State Standards. | | |

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| **Orientation to Career and Technical Occupations (semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 9100310 | 6-8 | ORIEN CAR OCCS |
| The purpose of this course is to acquaint students with career opportunities, job requirements, and tasks performed in a variety of career and technical occupations. The course will give students initial exposure to the skills and attitudes associated with these occupations.  Course will align with Common Core State Standards. | | |
| ***\*\* This course is not eligible for Perkins funding.*** | | |

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| **Exploration of Power & Energy Technology (Semester course)** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8600250 | 6-8 | EX POWER & ENRG TECH |
| The purpose of this course is to give students an opportunity to explore the area of aerospace technology and its associated careers. Activities may include but not be limited to developing new products and systems to solve problems or to help do things that could not have been done without the help of technology, explain how technological systems can be connected to one another and modify the way they interact, use tools, materials, and machines safely to diagnose, adjust, and repair systems, design and use instruments to gather data, build aerostatic and aerodynamic vehicles, construct a solid-propellant model rocket and work with communications systems such as satellite, helium-neon laser as well as basic systems.  Course will align with Common Core State Standards. | | |

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| **M/J Career Courses** | | |
| **Course #** | **Grade(s)** | **Abbreviated Title** |
| 8000200 | 7-8 | M/J Exploratory Career Wheel 1 |
| 8600020 | 7-8 | M/J Exploring Technology |
| 8100110 | 7-8 | M/J Orientation to Agriscience |
| The purpose of the above courses is to enable students to explore careers/career clusters and make informed career choices. Activities enable students to increase self-awareness and develop the specific skills needed in related subject areas to successfully plan for secondary, postsecondary education and the workplace. Career assessment will include interests, aptitudes, and basic skills.  Wheel classes are not eligible for Perkins funding. | | |
| ***See course descriptions for more details under alphabetized subject areas.*** | | |