

## CAREER AND TECHNICAL EDUCATION COURSES

### PLANNING FOR COLLEGE AND CAREER

Students are entering a highly competitive global workforce. Nearly 90 percent of the fastest growing jobs in the US require education beyond high school. Almost all jobs in the foreseeable future will need some form of certification, credential, or postsecondary degree. To become college and career ready, students need 21st century skills, technical knowledge, as well as the English and mathematics knowledge and skills necessary to succeed in entry-level postsecondary courses.

With an emphasis on real world skills, Career and Technical Education connects students to academics and training that will help them be successful in the future. Our goal is that every Wake County Public School student will graduate from high school globally competitive for work and postsecondary education and prepared for life in the 21st century. No matter what their dream, they can pursue it through CTE. Students should see their counselor and Career Development Coordinator to identify courses that will develop the skills they need to become college, career and citizenship ready.

The following are a list of online resources that can assist in planning for college and careers:

College and Career Planning Resources	Web Address
College Foundation of North Carolina	<a href="http://www.cfnc.org">www.cfnc.org</a>
Career One Stop	<a href="http://www.Careeronestop.org">www.Careeronestop.org</a>
Education Planner	<a href="http://www.educationplanner.org">www.educationplanner.org</a>
College Career Life Planning	<a href="http://www.collegecareerlifeplanning.com">www.collegecareerlifeplanning.com</a>
College Board	<a href="http://www.collegeboard.org">www.collegeboard.org</a>
O*NET Online	<a href="http://www.onetonline.org/">www.onetonline.org/</a>
ACT	<a href="http://www.act.org">www.act.org</a>
Kiplinger's Best College Values	<a href="http://www.kiplinger.com/tools/colleges/">www.kiplinger.com/tools/colleges/</a>
My Plan	<a href="http://www.Myplan.com">www.Myplan.com</a>
NC Works Online	<a href="https://www.ncworks.gov/vosnet/Default.aspx">https://www.ncworks.gov/vosnet/Default.aspx</a>
NC Careers	<a href="http://nccareers.org/">http://nccareers.org/</a>

In addition to student interest, previous performance in Career and Technical Education (CTE) courses and teacher recommendation should be considered in course selection. Students are encouraged to complete at least four credits in a pathway or cluster area while in high school. CTE courses are enhanced by an array of work-based learning opportunities . These include content-related projects, job shadowing, supervised work experiences, internships, apprenticeships, cooperative education, and field trips. These are particularly applicable to advanced-level courses.

A Career and Technical Student Organization (CTSO) is an integral part of each program area's curriculum. Any student enrolled in a CTE course is eligible for membership in the Career and Technical Student Organization (CTSO) associated with that program.


The CTOS are:

- DECA for Marketing and Entrepreneurship Education
- Future Business Leaders of America (FBLA) for Business, Finance and Information Technology Education
- FFA for Agricultural Education
- Family, Career and Community Leaders of America (FCCLA) for Family and Consumer Sciences Education
- Health Occupations Students of America (HOSA) for Health Science
- Technology Student Association (TSA) for Technology, Engineering and Design
- SkillsUSA for Trade and Industrial Education

This portion of the Program Planning Guide is arranged by Career Cluster and then by Career Pathway. The courses listed may not be taught at every high school within the district and students are encouraged to request a listing of courses offered at their assigned school. The chart and course listings reflect a recommended order or sequence. Many courses are available for Honors credit and those identified with an asterisk (\*) are considered completer courses for a pathway. Course descriptions include applicable work-based learning activities and the related CTOS. Students may also be eligible to complete an industry-recognized credential as part of their CTE pathway completion. Course descriptions note the aligned credentials.

Career Development Coordinators, counselors, and CTE teachers are valuable resources to consult when selecting courses.

## AGRICULTURE, FOOD AND NATURAL RESOURCES

Pathways	 <b>CareerClusters™</b> <small>PATHWAYS TO COLLEGE &amp; CAREER READINESS</small> <b>Agriculture, Food &amp; Natural Resources</b>				Cluster Enhancement Courses
<b>Animal Systems</b>	AU10 Agriscience Applications	AA21 Animal Science I AA31 Equine Science I	AA23 Animal Science II-Small Animal* AA32 Equine Science II*	CS95 CTE Advanced Studies AA41 Veterinary Assisting	CC45 Career Management BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel MM51 Marketing FH20 Introduction to Culinary Arts & Hospitality ME11 Entrepreneurship I BF10 Principles of Business & Finance CS96 CTE Apprenticeship CS97 CTE Internship
<b>Food Products &amp; Processing Systems</b>	FC11 Principles of Family and Human Services BF05 Personal Finance	FN41 Food and Nutrition I	FN42 Food and Nutrition II* FN43 Food Science and Technology*	CS95 CTE Advanced Studies	
<b>Plant Systems</b>	AU10 Agriscience Applications	AP41 Horticulture I	AP42 Horticulture II* AP44 Horticulture II-Landscaping*	CS95 CTE Advanced Studies	
<b>Power, Structural &amp; Technical Systems</b>	AU10 Agriscience Applications	AS31 Agricultural Mechanics I	AS32 Agricultural Mechanics II* AS33 Agricultural Mechanics II-Small Engines*	CS95 CTE Advanced Studies	

### ANIMAL SYSTEMS

#### **AGRISCIENCE APPLICATIONS**

**AU102X0**

**1 Credit(s)**

Prerequisite: None

This course focuses on integrating biological/physical sciences with technology as related to the environment, natural resources, food production, science, and agribusiness. Topics of instruction include agricultural awareness and literacy, employability skills and introduction to all aspects of the total agricultural industry. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes NC Hunter Safety Course, National Safe Tractor and Machinery Operation Certification, AWS Certified Welder D1.1 Structural Steel

Affiliated CTE Student Organization: FFA

#### **ANIMAL SCIENCE I**

**AA212X0**

**1 Credit(s)**

Prerequisite: None

This course focuses on the basic scientific principles and processes that are involved in animal physiology, breeding, nutrition, and care in preparation for an animal science career major. Topics include animal diseases, introduction to animal science, animal nutrition, animal science issues, career opportunities, and animal evaluation. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes NC Beef Quality Assurance, NC Pork Quality Assurance & Certification

Affiliated CTE Student Organization: FFA

**ANIMAL SCIENCE II - SMALL ANIMAL\*** **AA232X0** **1 Credit(s)**

Prerequisite: AA21 Animal Science I

This course provides instruction on animal science topics related to small animals that are served by a veterinarian. Content related to the breeding, grooming, care and marketing of animals that fit into this category are taught in this course. English language arts, mathematics, and science are reinforced in this class.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: FFA

**ANIMAL SCIENCE II - SMALL ANIMAL (HONORS)\*** **AA235X0** **1 Credit(s)**

Prerequisite: AA21 Animal Science I

In addition to the standard course requirements, Animal Science II- Small Animal, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: FFA

**EQUINE SCIENCE I** **AA312X0** **1 Credit(s)**

Prerequisite: None

This course focuses on the basic scientific principles and processes related to equine physiology, breeding, nutrition, and care in preparation for a career in the equine industry. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: None

Affiliated CTE Student Organization: FFA

**EQUINE SCIENCE II\*** **AA322X0** **1 Credit(s)**

Prerequisite: AA31 Equine Science I

The course focuses on more advanced applications of feeding, breeding, and management practices involved in the horse industry. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: None

Affiliated CTE Student Organization: FFA

**EQUINE SCIENCE II (HONORS)\*** **AA325X0** **1 Credit(s)**

Prerequisite: AA31 Equine Science I

In addition to the standard course requirements, Equine Science II, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: None

Affiliated CTE Student Organization: FFA

**VETERINARY ASSISTING (HONORS)** **AA415X0** **1 Credit(s)**

Prerequisite: None

This course provides instruction for students desiring a career in animal medicine. Topics include proper veterinary practice management and client relations, pharmacy and laboratory procedure, advanced animal care, and surgical/radiological procedures. Applied mathematics, science and writing are integrated throughout the curriculum. Advanced FFA leadership will be infused throughout the curriculum to develop the student's ability to work with the public. All aspects of this course will feature hands-on skill sets designed to enhance experiential learning. English language arts, mathematics, and science are reinforced. Work-based learning strategies appropriate for this course are cooperative education, internship, mentorship, service learning job shadowing and supervised agricultural experience. FFA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skill through authentic experiences. Students who wish to take the Veterinary Assisting Exam developed by Texas Veterinary Medical Association to be a Certified Veterinary Assistant (CVA) Level 1 should complete an additional 500 hours of

supervised agricultural experience (SAE) during their three animal science courses. Two hundred SAE hours focus on the care and management of animals; will be substantiated by records, and conducted under the direct supervision of the agricultural teacher. Hours may be earned any time during the year including summer months. An additional 300 hours of supervised agricultural experience (worked based learning) will be conducted as an internship program in animal medicine under the supervision of a licensed veterinarian or certified veterinary technician who will attest that participating students have mastered a standard set of skills used in animal medicine as identified by the cooperating teacher. Hours may be earned any time during the year including summer months.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: None

Affiliated CTE Student Organization: FFA

## FOOD PRODUCTS & PROCESSING SYSTEMS

### **PRINCIPLES OF FAMILY AND HUMAN SERVICES**                      **FC112X0**                      **1 Credit(s)**

Prerequisite: None

Students learn life literacy skills and individual, family, and community systems in the context of the human services field. Emphasis is placed on human development, professional skills, diversity, analyzing community issues, and life management. Activities engage students in exploring various helping professions, while building essential life skills they can apply in their own lives to achieve optimal wellbeing. English/language arts, social studies, mathematics, science, technology, and interpersonal relationships are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

### **FOODS AND NUTRITION I**                      **FN412X0**                      **1 Credit(s)**

Prerequisite: FC11 Principles of Family and Human Services recommended

This course examines the nutritional needs of the individual. Students learn fundamentals of food production, kitchen and meal management, food groups and their preparation, and time and resource management. English language arts, mathematics, science, and social studies are reinforced.

\*For safety and sanitation reasons, enrollment should not exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**FOODS AND NUTRITION II\*** **FN422X0** **1 Credit(s)**

Prerequisite: FN41 Foods I OR FH21 Culinary Arts and Hospitality I

In this course, students experience the cross-section of nutrition science and food preparation while building skills for an expanding range of career opportunities. Emphasis is placed on health and social responsibility while improving the way people eat. Students come to understand food protection, nutrients, lifespan nutrition, sports nutrition, medical nutrition therapy, American and global foodways, and entrepreneurship. English language arts, social studies, mathematics, and science are reinforced.

\*For safety and sanitation reasons, enrollment should not exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes ServSafe Food Protection Managers Certification

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**FOODS AND NUTRITION II (HONORS)\*** **FN425X0** **1 Credit(s)**

Prerequisite: FN41 Foods I OR FH21 Culinary Arts and Hospitality I

In addition to the standard course requirements Foods II- Enterprise, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

\*For safety and sanitation reasons, enrollment should not exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes ServSafe Food Protection Managers Certification

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**FOODS SCIENCE AND TECHNOLOGY (HONORS)\*** **FN435X0** **1 Credit(s)**

Prerequisite: FN41 Foods I or FH21 Culinary Arts and Hospitality I AND Environmental Science or Physical Science or Biology or Chemistry

This course explores the food industry from the farm to the table using skills in food science, technology, engineering, and mathematics. Government regulations, emerging trends, biotechnology, and technological career opportunities from scientists to technicians will be presented. The student examines production, processing, preparation, preservation, and packaging principles along the farm to table continuum. The student begins to understand how food technology affects the food that he/she eats. English language arts, science, and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Food Science Fundamentals Pre-PAC

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**PERSONAL FINANCE** **BF052X0** **1 Credit(s)**

Prerequisite: None

This course prepares students to understand economic activities and challenges of individuals and families, the role of lifestyle goals in education and career choices, procedures in a successful job search, financial forms used in independent living, and shopping options and practices for meeting consumer needs. The course also prepares students to understand consumer rights, responsibilities, and information, protect personal and family resources, and apply procedures for managing personal finances. English language arts and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes CFNC.org Certified Financial Basics for High School and Beyond, EverFi, WISE

Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

## PLANT SYSTEMS

**AGRISCIENCE APPLICATIONS** **AU102X0** **1 Credit(s)**

Prerequisite: None

This course focuses on integrating biological/physical sciences with technology as related to the environment, natural resources, food production, science, and agribusiness. Topics of instruction include agricultural awareness and literacy, employability skills and introduction to all aspects of the total agricultural industry. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes NC Hunter Safety Course, National Safe Tractor and Machinery Operation Certification, AWS Certified Welder D1.1 Structural Steel

Affiliated CTE Student Organization: FFA

**HORTICULTURE I** **AP412X0** **1 Credit(s)**

Prerequisite: None

This course provides instruction 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, customer relations, and career opportunities. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes North Carolina Certified Plant Professional (CPP), Certified Young Plant Professional (CYPP) , NC Private Pesticide Applicator License

Affiliated CTE Student Organization: FFA

### **HORTICULTURE I (HONORS)**

**AP415X0**

**1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements, Animal Science II- Small Animal, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes North Carolina Certified Plant Professional (CPP), Certified Young Plant Professional (CYPP) , NC Private Pesticide Applicator License

Affiliated CTE Student Organization: FFA

### **HORTICULTURE II\***

**AP422X0**

**1 Credit(s)**

Prerequisite: AP41 (6841) Horticulture I

This course covers instruction that expands scientific knowledge and skills to include more advanced scientific computations and communication skills needed in the horticulture industry. Topics include greenhouse plant production and management, bedding plant production, watering systems, light effects, basic landscape design, installation and maintenance, lawn and turf grass management, and personal development. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes North Carolina Certified Plant Professional (CPP), Certified Young Plant Professional (CYPP) , NC Private Pesticide Applicator License

Affiliated CTE Student Organization: FFA

### **HORTICULTURE II (HONORS)\***

**AP425X0**

**1 Credit(s)**

Prerequisite: AP41 (6841) Horticulture I

In addition to the standard course requirements, Horticulture II, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently



and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes North Carolina Certified Plant Professional (CPP), Certified Young Plant Professional (CYPP) , NC Private Pesticide Applicator License

Affiliated CTE Student Organization: FFA

**HORTICULTURE II-LANDSCAPING\*** **AP442X0** **1 Credit(s)**

Prerequisite: AP41 (6841) Horticulture I

This course provides hands-on instruction and emphasizes safety skills needed by landscape technicians in the field. Students are instructed in interpreting landscape designs, identifying landscape plants, and planting/maintaining trees, shrubs, and turf. Landscape construction is emphasized in the areas of grading and drainage, irrigation, paver installation, and the use/maintenance of landscape equipment. Current topics discussions provide students an understanding of careers and the employability skills needed to enter the landscape industry. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes North Carolina Certified Plant Professional (CPP)

Certified Young Plant Professional (CYPP)

NC Private Pesticide Applicator License

Affiliated CTE Student Organization: FFA

**HORTICULTURE II-LANDSCAPING (HONORS)\*** **AP445X0** **1 Credit(s)**

Prerequisite: AP41 (6841) Horticulture I

In addition to the standard course requirements, Horticulture II – Landscaping, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes North Carolina Certified Plant Professional (CPP)

Certified Young Plant Professional (CYPP)

NC Private Pesticide Applicator License

Affiliated CTE Student Organization: FFA

## POWER, STRUCTURAL & TECHNICAL SYSTEMS

### **AGRISCIENCE APPLICATIONS**

**AU102X0**

**1 Credit(s)**

Prerequisite: None

This course focuses on integrating biological/physical sciences with technology as related to the environment, natural resources, food production, science, and agribusiness. Topics of instruction include agricultural awareness and literacy, employability skills and introduction to all aspects of the total agricultural industry. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes NC Hunter Safety Course, National Safe Tractor and Machinery Operation Certification, AWS Certified Welder D1.1 Structural Steel

Affiliated CTE Student Organization: FFA

### **AGRICULTURAL MECHANICS I**

**AS312X0**

**1 Credit(s)**

Prerequisite: None

This course develops knowledge and technical skills in the broad field of agricultural machinery, equipment, and structures. The primary purpose of this course is to prepare students to handle the day-to-day problems and repair needs they will encounter in their chosen agricultural career. Topics include agricultural mechanics safety, agricultural engineering career opportunities, hand/power tool use and selection, electrical wiring, fencing, paints and preservatives, basic metal working, basic agricultural construction skills related to plumbing, carpentry, basic welding, and leadership development. English language arts, mathematics, and science are reinforced. \*Course enrollment limited to 20 to ensure safety in laboratory settings.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes OSHA 10-Hour General Industry (Agriculture) Certification, AWS Certified Welder D1.1 Structural Steel, National Safe Tractor and Machinery Operation Certification

Affiliated CTE Student Organization: FFA

### **AGRICULTURAL MECHANICS II\***

**AS322X0**

**1 Credit(s)**

Prerequisite: AS31 Agricultural Mechanics I

In this course, the topics of instruction emphasized are non-metallic agricultural fabrication techniques, metal fabrication technology, safe tool and equipment use, human resource development, hot/cold metal working skills and technology, advanced welding and metal cutting skills, working with plastics, plumbing, concrete and masonry, agricultural power and advanced career exploration/decision making. English language arts, mathematics, and science are reinforced.

\*Course enrollment limited to 20 to ensure safety in laboratory settings.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes OSHA 10-Hour General Industry (Agriculture) Certification, AWS Certified Welder D1.1 Structural Steel , National Safe Tractor and Machinery Operation Certification

Affiliated CTE Student Organization: FFA

**AGRICULTURAL MECHANICS II (HONORS)\*** **AS325X0** **1 Credit(s)**

Prerequisite: AS31 Agricultural Mechanics I

In addition to the standard course requirements, Agricultural Mechanics II, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

\*Course enrollment limited to 20 to ensure safety in laboratory settings.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes OSHA 10-Hour General Industry (Agriculture) Certification, AWS Certified Welder D1.1 Structural Steel , National Safe Tractor and Machinery Operation Certification

Affiliated CTE Student Organization: FFA

**AGRICULTURAL MECHANICS II - SMALL ENGINES\*** **AS332X0** **1 Credit(s)**

Prerequisite: AS31 Agricultural Mechanics I

This course is provided for the upper-level agricultural mechanics student who wishes to apply the basic knowledge of small engines acquired through on-line Briggs and Stratton training modules delivered by the agricultural education teacher in a shop setting. The course is intended to provide students with experiential learning opportunities as they perform "hands-on" skills specified in the curriculum under the direct supervision of the agriculture teacher. This "learning to do" philosophy will enable students to understand curriculum content so that they may pass the Briggs and Stratton Competency Exam and receive certification from Briggs and Stratton. English, language arts, mathematics, and science are reinforced.

\*Course enrollment limited to 20 to ensure safety in laboratory settings.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Master Service Technician with Briggs and Stratton

Affiliated CTE Student Organization: FFA

**AGRICULTURAL MECHANICS II - SMALL ENGINES (HONORS)\*** **AS335X0** **1 Credit(s)**

Prerequisite: AS31 Agricultural Mechanics I

In addition to the standard course requirements Agricultural Mechanics II-Small Engines, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.


\*Course enrollment limited to 20 to ensure safety in laboratory settings.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Master Service Technician with Briggs and Stratton

Affiliated CTE Student Organization: FFA

## ARCHITECTURE & CONSTRUCTION

Pathways	 <b>CareerClusters™</b> <small>PATHWAYS TO COLLEGE &amp; CAREER READINESS</small> <b>Architecture &amp; Construction</b>				Cluster Enhancement Courses
<b>Construction</b>	IC00 Core and Sustainable Construction	IC21 Carpentry I  IC61 Drafting I	IC22 Carpentry II *  IC62 Drafting II- Architectural*  CS11 Project Management I	IC23 Carpentry III  IC63 Drafting III- Architectural	CC45 Career Management BD10 Multimedia and Webpage Design BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel MM51 Marketing MI21 Fashion Merchandising AS31 Agricultural Mechanics I FA31 Apparel and Textile Production I ME11 Entrepreneurship I (BFIT & MEE) CS96 CTE Apprenticeship CS97 CTE Internship
<b>Design/Pre-construction</b>	FC11 Principles of Family and Human Services  BF05 Personal Finance  BF10 Principles of Business & Finance	FI51 Interior Design I	FI52 Interior Design II*	FI53 Interior Digital Applications  CS95 CTE Advanced Studies	

### CONSTRUCTION

#### **CORE AND SUSTAINABLE CONSTRUCTION**

**IC002X0**

**1 Credit(s)**

Prerequisite: None

This course covers the National Center for Construction Education and Research (NCCER) Core certification modules required for all of the NCCER curriculum-area programs, and an additional Green module. The course content includes: basic safety, introduction to construction math, introduction to hand tools, introduction to power tools, introduction to blueprints, material handling, basic communication skills, basic employability skills, and “Your Role in the Green Environment”. The additional Green module has been added to provide students with instruction in the green environment, green construction practices, and green building rating systems. Also it will help students better understand their personal impacts on the environment and make them more aware of how to reduce their carbon footprint. English Language Arts and Mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: Yes NCCER and the OSHA 10-Hour Construction Industry Certifications

Affiliated CTE Student Organization: SkillsUSA

**CARPENTRY I****IC212X0****1 Credit(s)**

Prerequisite: IC00 Core and Sustainable Construction

This course covers basic carpentry terminology and develops technical aspects of carpentry with emphasis on the development of introductory skills to include orientation to the trade, building materials, fasteners, and adhesives, hand and power Tools, reading plans and elevations, introduction to concrete, reinforcing materials, and forms, floor system construction procedures, wall and ceiling framing procedures, and basic stair layout. English language arts and mathematics are reinforced.

\*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes NCCER and the OSHA 10-Hour Construction Industry Certifications

Affiliated CTE Student Organization: SkillsUSA

**CARPENTRY II\*****IC222X0****1 Credit(s)**

Prerequisite: IC21 Carpentry I

This course builds on skills mastered in Carpentry I and provides an emphasis on roof framing procedures, roofing applications, thermal and moisture protection, windows and exterior doors installation, exterior finishing, and the introduction to weatherization module. English language arts and mathematics are reinforced.

\*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: Yes NCCER and the OSHA 10-Hour Construction Industry Certifications

Affiliated CTE Student Organization: SkillsUSA

**CARPENTRY II (HONORS)\*****IC225X0****1 Credit(s)**

Prerequisite: IC21 Carpentry I

In addition to the standard course requirements for Carpentry II, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

\*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: Yes NCCER and the OSHA 10-Hour Construction Industry Certifications

Affiliated CTE Student Organization: SkillsUSA

**CARPENTRY III****IC232X0****1 Credit(s)**

Prerequisite: IC22 Carpentry II

This course builds on skills mastered in Carpentry II and develops advanced technical aspects of carpentry with the emphasis on commercial drawing, cold-formed steel framing construction methods, drywall installations, drywall finishing procedures, doors and door hardware installation, and windows, door, floor and ceiling trim procedures. English language arts and mathematics are reinforced.

\*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes NCCER

Affiliated CTE Student Organization: SkillsUSA

**DRAFTING I****IC612X0****1 Credit(s)**

Prerequisite: None

This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas, concepts and trends found in the areas of architecture, manufacturing, engineering, science, and mathematics, sketching and computer assisted design (CAD) skills and techniques. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: Yes Autodesk Auto CAD Certified User

Affiliated CTE Student Organization: SkillsUSA

**DRAFTING II- ARCHITECTURAL\*****IC622X0****1 Credit(s)**

Prerequisite: IC61 Drafting I

This course focuses on the principles, concepts of architectural design , and use of Building Information Modeling (BIM), used in the field of architecture. An emphasis is placed on the use of 3D CAD tools in the design and execution of floor plans , foundation plans, wall sections, and elevation drawings. An understanding of 3D CAD concepts and terms , and the use of 3D CAD software such as REVIT , are essential to this course, and the required method of producing finished drawings. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No  
**Service Learning:** Yes

Aligned Industry Credential: Yes Autodesk Revit Architecture Certified User

Affiliated CTE Student Organization: SkillsUSA

**DRAFTING II- ARCHITECTURAL (HONORS)\*****IC625X0****1 Credit(s)**

Prerequisite: IC61 Drafting I

In addition to the standard course requirements for Drafting II - Architectural, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: Yes Autodesk Revit Architecture Certified User

Affiliated CTE Student Organization: SkillsUSA

**DRAFTING III- ARCHITECTURAL (HONORS) IC635X0 1 Credit(s)**

Prerequisite: IC62 Drafting II- Architectural

This course introduces students to advanced architectural design concepts, and Building Information Modeling (BIM). Emphasis is placed on the continued use of 3D CAD tools and software such as REVIT, in the design and execution of site and foundation plans, electrical/lighting plans, stair/railing design, bath and kitchen details, multi-level floor systems, site development, renderings and walkthroughs, as well as small commercial building and design. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Autodesk Revit Architecture Certified User

Affiliated CTE Student Organization: SkillsUSA

**PROJECT MANAGEMENT I CS112X0 1 Credit(s)**

Prerequisite: None

This course will introduce students to the principles, concepts, and software applications used in the management of projects. Through project-based learning, students will understand how to use the framework of initiating, planning, executing, monitoring and controlling, and closing a project in authentic situations. The core concepts of scope, time, cost, and integration will be examined during this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA),FFA, Family Career and Community Leaders of America (FCCLA), Skill USA, HOSA, and Technology Student Association (TSA)

## DESIGN/PRE-CONSTRUCTION



**PRINCIPLES OF FAMILY AND HUMAN SERVICES****FC112X0****1 Credit(s)**

Prerequisite: None

Students learn life literacy skills and individual, family, and community systems in the context of the human services field. Emphasis is placed on human development, professional skills, diversity, analyzing community issues, and life management. Activities engage students in exploring various helping professions, while building essential life skills they can apply in their own lives to achieve optimal wellbeing. English/language arts, social studies, mathematics, science, technology, and interpersonal relationships are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**INTERIOR DESIGN I****FI512X0****1 Credit(s)**

Prerequisite: None

This course engages students in exploring various interior design professions, while building the content knowledge and technical skills necessary to provide a foundational knowledge of the design industry. Emphasis is placed on the interior design process; human, environmental and behavioral factors; color theory, elements and principles of design; hand sketching/digital design techniques, space planning, selection of products and materials for residential interiors; client relationship building and design communication techniques. English/language arts, mathematics, science, art, and technology are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**INTERIOR DESIGN II \*****FI522X0****1 Credit(s)**

Prerequisite: FI51 Interior Design I

This course prepares students for entry-level and technical work opportunities in the residential and non-residential interior design fields. Students deepen their understanding of design fundamentals and theory by designing interior plans to meet living space needs of specific individuals or families. Topics include application of design theory to interior plans and production, selection of materials, and examination of business procedures. Art and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**INTERIOR DESIGN II (HONORS)\*****FI525X0****1 Credit(s)**

Prerequisite: FI51 Interior Design I

In addition to the standard course requirements Interior Design II, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**INTERIOR DIGITAL APPLICATIONS****FI535X0****1 Credit(s)**

Prerequisite: FI52 Interior Design II

This course prepares students for entry-level and technical work opportunities in interior design. Students apply design skills through Autodesk Revit software to meet clients' needs using components found in residential and commercial spaces. Art and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**PERSONAL FINANCE****BF052X0****1 Credit(s)**

Prerequisite: None

This course prepares students to understand economic activities and challenges of individuals and families, the role of lifestyle goals in education and career choices, procedures in a successful job search, financial forms used in independent living, and shopping options and practices for meeting consumer needs. The course also prepares students to understand consumer rights, responsibilities, and information, protect personal and family resources, and apply procedures for managing personal finances. English language arts and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes CFNC.org Certified Financial Basics for High School and Beyond, EverFi, WISE

Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

**PRINCIPLES OF BUSINESS AND FINANCE****BF102X0****1 Credit(s)**

Prerequisite: None


This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes

Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

## ARTS, AV TECHNOLOGY, & COMMUNICATIONS

Pathways	 <b>Arts, A/V Technology &amp; Communications</b>				Cluster Enhancement Courses
<b>Audio &amp; Video Technology &amp; Film</b>  <b>Printing Technology</b>	BM10 Microsoft Word & PowerPoint	BD10 Multimedia and Webpage Design  IA31 Digital Media  II31 Adobe Visual Design	IA32 Advanced Digital Media*  II32 Adobe Digital Design*  II33 Adobe Video Design*	CS95 CTE Advanced Studies	CC45 Career Management BM20 Microsoft Excel FC11 Principles of Family and Human Services F151 Interior Design I BF10 Principles of Business & Finance BF05 Personal Finance CS96 CTE Apprenticeship CS97 CTE Internship
<b>Visual Arts</b>	BM10 Microsoft Word & PowerPoint  MM51 Marketing  MI21 Fashion Merchandising  TS21 Scientific & Technical Visualization I	FA31 Apparel and Textile Production I  TS31 Game Art Design*  CS11 Project Management I	FA32 Apparel and Textile Production II*  TS32 Advanced Game Art Design	ME11 Entrepreneurship I  CS95 CTE Advanced Studies	

### AUDIO & VIDEO TECHNOLOGY & FILM and PRINTING TECHNOLOGY

#### **MICROSOFT WORD & POWERPOINT**

**BM102XO**

**1 Credit(s)**

Prerequisite: None

Students in the Microsoft Imagine Academy benefit from world-class Microsoft curriculum and software tools to tackle real-world challenges in the classroom environment. In the first part, students will learn to use the newest version of Microsoft Word interface, commands, and features to create, enhance, customize, share and create complex documents, and publish them. In the second part, students will learn to use the newest version of Microsoft PowerPoint interface, commands, and features to create, enhance, customize, and deliver presentations. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) in Word and/or PowerPoint

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

#### **MICROSOFT WORD & POWERPOINT (HONORS)**

**BM105XO**

**1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Microsoft Word & PowerPoint, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students

that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments. Students will be expected to take and pass the Microsoft Office Specialist (MOS) certification exams for Microsoft Word and Microsoft PowerPoint.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) in Word and/or PowerPoint

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MULTIMEDIA AND WEBPAGE DESIGN** **BD102X0** **1 Credit(s)**

Prerequisite: BM10 Microsoft Word and PowerPoint

This course focuses on desktop publishing, graphic image design, computer animation, multimedia production, and webpage design. Communication skills and critical thinking are reinforced through software applications. English language arts and arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No Word and PowerPoint

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**DIGITAL MEDIA** **IA312X0** **1 Credit(s)**

Prerequisite: None

This course is the first in a two part series of courses that provides students with industry knowledge and skills in the overall digital media design field. Areas covered in these two courses include graphics, animation, video, and web design. Industry certifications are used to align curriculum with industry needs. An emphasis is placed on the concepts of graphic design, various digital media technologies, non-linear editing, product development and design, and career development. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** No **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**ADVANCED DIGITAL MEDIA\*** **IA322X0** **1 Credit(s)**

Prerequisite: IA31 Digital Media

This course is the second in a services of courses that provides students with industry knowledge and skills in the overall digital media design field. Areas covered in this course include graphics, animation, video, and web design. An emphasis is placed on the fundamental concepts of graphic design, various digital media technologies, non-linear editing, product development and design, and career development. Art, English language arts, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: Yes: Adobe Creative Cloud: Photoshop, InDesign, Illustrator, Dreamweaver, Premiere

Affiliated CTE Student Organization: SkillsUSA

**ADVANCED DIGITAL MEDIA (HONORS)\*** **IA325X0** **1 Credit(s)**  
Prerequisite: IA31 Digital Media

In addition to the standard course requirements for Advanced Digital Media, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: Yes Adobe Creative Cloud: Photoshop, InDesign, Illustrator, Dreamweaver, Premiere

Affiliated CTE Student Organization: SkillsUSA

**ADOBE VISUAL DESIGN** **II312X0** **1 Credit(s)**  
Prerequisite: None

This course is a project-based course that develops ICT, career, and communication skills in print and graphic design using Adobe tools. This course is aligned to Adobe Photoshop, InDesign, and Illustrator certification. English language arts are reinforced. Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** No **Job Shadowing:** No  
**Mentorships:** No **School Based Enterprises:** No **Service Learning:** No  
Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**ADOBE DIGITAL DESIGN\*** **II322X0** **1 Credit(s)**  
Prerequisite: II31 Adobe Visual Design

This course is a project-based course that develops ICT, career, and communication skills in Web design using Adobe tools. This course is aligned to Adobe Dreamweaver and Flash certification. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** No **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**ADOBE VIDEO DESIGN\*** **II332X0** **1 Credit(s)**

Prerequisite: II31 Adobe Visual Design

This course is a project-based video course that develops career and communication skills in video production using Adobe tools. This course is aligned to Adobe Premiere certification. English language arts are reinforced. Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

## VISUAL ARTS

### **MICROSOFT WORD & POWERPOINT**

**BM102XO**

**1 Credit(s)**

Prerequisite: None

Students in the Microsoft Imagine Academy benefit from world-class Microsoft curriculum and software tools to tackle real-world challenges in the classroom environment. In the first part, students will learn to use the newest version of Microsoft Word interface, commands, and features to create, enhance, customize, share and create complex documents, and publish them. In the second part, students will learn to use the newest version of Microsoft PowerPoint interface, commands, and features to create, enhance, customize, and deliver presentations. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) in Word and/or PowerPoint

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

### **MICROSOFT WORD & POWERPOINT (HONORS)**

**BM105XO**

**1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Microsoft Word & PowerPoint, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments. Students will be expected to take and pass the Microsoft Office Specialist (MOS) certification exams for Microsoft Word and Microsoft PowerPoint.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) in Word and/or PowerPoint

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**APPAREL AND TEXTILE PRODUCTION I****FA312X0****1 Credit(s)**

Prerequisite: None

In this course students are introduced to the apparel and textile industry in the area of design, textiles and apparel engineering. Emphasis is placed on students applying these design and engineering skills to create and produce apparel products. Art, literacy, mathematics, and science are reinforced.

\*For safety reasons, enrollment is not to exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**APPAREL AND TEXTILE PRODUCTION II\*****FA322X0****1 Credit(s)**

Prerequisite: FA31 Apparel I

Students in this course will gain a deeper understanding of design principles, engineering, fabrication and global needs of an ever-changing apparel and textile industry. The course provides a major focus on textile design, textile science, product construction, global manufacturing, and the apparel/textile market while incorporating and scaffolding prerequisite concepts. Emphasis is placed on application of design and engineering skills used to create, produce, and prepare a product for market. Students will also gain the entrepreneurial skills, necessary for successful marketing and distribution of an apparel product. Art, literacy, mathematics, science, and social studies are reinforced throughout.

\*For safety reasons, enrollment is not to exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**APPAREL AND TEXTILE PRODUCTION II (HONORS)\*****FA325X0****1 Credit(s)**

Prerequisite: FA31 Apparel I

In addition to the standard course requirement Apparel and Textile Production II, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

\*For safety reasons, enrollment is not to exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes



Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**ENTREPRENEURSHIP I\*** **ME112X0** **1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In this course, students evaluate the concepts of going into business for themselves and working for or operating a small business. Emphasis is on the exploration of feasible ideas of products/services, research procedures, business financing, marketing strategies, and access to resources for starting a small business. Students develop components of a business plan and evaluate startup requirements. English language arts and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP I (HONORS) \*** **ME115X0** **1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In addition to the standard course requirements for Entrepreneurship I, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**FASHION MERCHANDISING** **MI212X0** **1 Credit(s)**

Prerequisite: None

This course is designed to simulate a comprehensive experience of the business of fashion. The experience should bring alive the economics, distribution, promotion, and retail of fashion, and essential strategies of promoting and selling fashion. Upon completion of the course, students should be ready for the retail of fashion at the entry level of work or post-secondary education. English, mathematics, social studies, and technology are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Marketing Education (DECA); Career and Community Leaders of America (FCCLA)

**SCIENTIFIC AND TECHNICAL VISUALIZATION I**                      **TS212X0**                      **1 Credit(s)**

Prerequisite: None

This course introduces students to the use of complex graphic tools. Emphasis is placed on the principles, concepts, and use of complex graphic and visualization tools as applied to the study of science and technology. Students use complex 2D graphics, animation, editing, and image analysis tools to better understand, illustrate, explain, and present technical, mathematical, and/or scientific concepts and principles. Emphasis is placed on the use of computer-enhanced images to generate both conceptual and data-driven models, data-driven charts, and animations. Science, math, and visual design concepts are reinforced through the course. Activities are structures to integrate physical and social science, mathematics, English language arts, and art.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**GAME ART DESIGN\***    **TS312X0**    **1 Credit(s)**

Prerequisite: TS21 Scientific and Technical Visualization I

This course introduces students to techniques used in the electronic game industry. Students will focus on the principles used in game design including mathematical and virtual modeling. Emphasis is placed on areas related to art, history, ethics, plot development, storyboarding, programming, 2D Visual theory, and interactive play technologies. Students develop physical and virtual games using hands-on experience and a variety of software. Art, English language, arts, mathematics and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** No **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**GAME ART DESIGN (HONORS)\***    **TS315X0**    **1 Credit(s)**

Prerequisite: TS21 Scientific and Technical Visualization I

This course introduces students to techniques used in the electronic game industry. Students will focus on the principles used in game design including mathematical and virtual modeling. Emphasis is placed on areas related to art, history, ethics, plot development, storyboarding, programming, 2D Visual theory, and interactive play technologies. Students develop physical and virtual games using hands-on experience and a variety of software. Art, English language, arts, mathematics and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** No **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**ADVANCED GAME ART AND DESIGN** **TS322X0** **1 Credit(s)**

Prerequisite: TS31 Game Art and Design

This course is a continuation in the study of game design and interactivity. Emphasis is placed on visual design, evaluating, scripting and network protocols, and legal issues as well as 3D visual theory. Students compile a game portfolio. Advanced topics include the use of audio and visual effects, rendering, modeling, and animation techniques. Students work in collaborative teams to develop a final 3 D game project. Art, English language arts, mathematics and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**PROJECT MANAGEMENT I** **CS112X0** **1 Credit(s)**

Prerequisite: None


This course will introduce students to the principles, concepts, and software applications used in the management of projects. Through project-based learning, students will understand how to use the framework of initiating, planning, executing, monitoring and controlling, and closing a project in authentic situations. The core concepts of scope, time, cost, and integration will be examined during this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA),FFA, Family Career and Community Leaders of America (FCCLA), Skill USA, HOSA, and Technology Student Association (TSA)

## BUSINESS MANAGEMENT & ADMINISTRATION

Pathways	 <b>Business Management &amp; Administration</b>				Cluster Enhancement Courses
<b>General Management</b>	BF10 Principles of Business & Finance  BM10 Microsoft Word & PowerPoint  BM20 Microsoft Excel	BA10 Accounting I  CS11 Project Management I	BB40 Business Management *  BB30 Business Law*  ME11 Entrepreneurship I*  BB50 IB Business Management*	ME12 Entrepreneurship II  CS95 CTE Advanced Studies	CC45 Career Management BD10 Multimedia and Webpage Design MM51 Marketing ^ MU92 Strategic Marketing BF05 Personal Finance CS96 CTE Apprenticeship CS97 CTE Internship

### GENERAL MANAGEMENT

#### **PRINCIPLES OF BUSINESS AND FINANCE**

**BF102X0**

**1 Credit(s)**

Prerequisite: None

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes

Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

#### **MICROSOFT WORD & POWERPOINT**

**BM102X0**

**1 Credit(s)**

Prerequisite: None

Students in the Microsoft Imagine Academy benefit from world-class Microsoft curriculum and software tools to tackle real-world challenges in the classroom environment. In the first part, students will learn to use the newest version of Microsoft Word interface, commands, and features to create, enhance, customize, share and create complex documents, and publish them. In the second part, students will learn to use the newest version of Microsoft PowerPoint interface, commands, and features to create, enhance, customize, and deliver presentations. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) in Word and/or PowerPoint

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MICROSOFT WORD & POWERPOINT (HONORS)**

**BM105XO**

**1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Microsoft Word & PowerPoint, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments. Students will be expected to take and pass the Microsoft Office Specialist (MOS) certification exams for Microsoft Word and Microsoft PowerPoint.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) in Word and/or PowerPoint

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MICROSOFT EXCEL**

**BM202X0**

**1 Credit(s)**

Prerequisite: None

Students in Microsoft Imagine Academy benefit from world-class Microsoft curriculum and cutting-edge software tools to tackle real-world challenges in the classroom environment. This class is designed to prepare students for success completion of the Microsoft Office Specialist Excel Core and Excel Expert exams.

Successful candidates for the Microsoft Office Specialist Excel 2016 certification exam will have a fundamental understanding of the Excel environment and the ability to complete tasks independently. They will know and demonstrate the correct application of the principle features of Excel 2016. Candidates create and edit a workbook with multiple sheets, and they use a graphic element to represent data visually. Workbook examples include professional-looking budgets, financial statements, team performance charts, sales invoices, and data-entry logs.

Expert-level candidates for the Excel 2016 exam have an advanced understanding of the Excel environment and have the ability to guide others to the proper use of the program's features.

They create, manage, and distribute professional spreadsheets for a variety of specialized purposes and situations. They customize their Excel environments to meet project needs and to enhance productivity. Expert workbook examples include custom business templates, multiple-axis financial charts, amortization tables, and inventory schedules. Career possibilities may include accountants, financial analysts, data analysts, commercial bankers, and others.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) and/or Access

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MICROSOFT EXCEL (HONORS)**

**BM205X0**

**1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Microsoft Excel, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments. Students will be expected to take and pass the Microsoft Office Specialist (MOS) certification exams for Microsoft Excel.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS)

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**ACCOUNTING I**

**BA102X0**

**1 Credit(s)**

Prerequisite: None

This course is designed to help students understand the basic principles of the accounting cycle. Emphasis is placed on the analysis and recording of business transactions, preparation, and interpretation of financial statements, accounting systems, banking and payroll activities, basic types of business ownership, and an accounting career orientation. Mathematics is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**ACCOUNTING I (HONORS)**

**BA105X0**

**1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Accounting I, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**BUSINESS MANAGEMENT\*** **BB402X0** **1 Credit(s)**  
Prerequisite: BF10 Principles of Business and Finance

This course expands student understanding of management, including customer relationship management, human resources management, information management, knowledge management, product-development management, project management, quality management, and strategic management. Economics, finance, and professional development are also stressed throughout the course. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**BUSINESS MANAGEMENT COOPERATIVE** **BB406X0** **1 Credit(s)**  
Corequisite: Business Management BB40 in the same academic year

Cooperative education is a method of instruction where CTE instruction is combined with paid employment that is directly related to classroom instruction. Students must register for both the CTE classroom course and Cooperative Education Work component during the same academic year. A student must complete a minimum of 135 hours in a work-based experience. In addition to the standards defined in the Cooperative Education Policies and Procedures Manual, the following standards must be followed

**BUSINESS LAW\*** **BB302XO** **1 Credit(s)**  
Prerequisite: BF10 Principles of Business and Finance

This course is designed to acquaint students with the basic legal principles common to all aspects of business and personal law. Business topics include contract law, business ownership including intellectual property, financial law, and national and international laws. Personal topics include marriage and divorce law, purchasing appropriate insurance, renting and owning real estate, employment law, and consumer protection laws. Social studies and English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** Yes

Aligned Industry Credential: None

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**BUSINESS LAW (HONORS)\*** **BB305XO** **1 Credit(s)**  
Prerequisite: BF10 Principles of Business and Finance

In addition to the standard course requirements for Business Law, this Honor- level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently,

and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** Yes

Aligned Industry Credential: None

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP I\*** **ME112X0** **1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In this course, students evaluate the concepts of going into business for themselves and working for or operating a small business. Emphasis is on the exploration of feasible ideas of products/services, research procedures, business financing, marketing strategies, and access to resources for starting a small business. Students develop components of a business plan and evaluate startup requirements. English language arts and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP I (HONORS)\*** **ME115X0** **1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In addition to the standard course requirements for Entrepreneurship I, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP II (HONORS)** **ME125X0** **1 Credit(s)**

Prerequisite: ME11 Entrepreneurship I

In this Honors-level course students develop an understanding of pertinent decisions to be made after obtaining financing to open a small business. Students acquire in-depth understanding of business regulations, risks,



management, and marketing. Students develop a small-business management handbook. Students that successfully complete this course will earn Honors credit. English language arts and social studies are reinforced. Work-based learning strategies appropriate include cooperative education, entrepreneurship, internship, mentorship, school-based enterprise, service learning, and job shadowing. Apprenticeship is not available for this course. DECA (an association for Marketing Education students) and Future Business Leaders of America (FBLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Concepts of Entrepreneurship & Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

### **PROJECT MANAGEMENT I**

**CS112X0**

**1 Credit(s)**

Prerequisite: None


This course will introduce students to the principles, concepts, and software applications used in the management of projects. Through project-based learning, students will understand how to use the framework of initiating, planning, executing, monitoring and controlling, and closing a project in authentic situations. The core concepts of scope, time, cost, and integration will be examined during this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA),FFA, Family Career and Community Leaders of America (FCCLA), Skill USA, HOSA, and Technology Student Association (TSA)

## FINANCE

Pathways	 <b>CareerClusters™</b> <small>PATHWAYS TO COLLEGE &amp; CAREER READINESS</small> <b>Finance</b>				Cluster Enhancement Courses
<b>Business Finance</b>	BF05 Personal Finance  BF10 Principles of Business & Finance  BM20 Microsoft Excel	BA10 Accounting I	BA20 Accounting II *	ME11 Entrepreneurship I  BB30 Business Law  CS95 CTE Advanced Studies	CC45 Career Management BM10 Microsoft Word & PowerPoint MM51 Marketing ^ MU92 Strategic Marketing CS11 Project Management I CS96 CTE Apprenticeship CS97 CTE Internship FC11 Principles of Family and Human Services

### BUSINESS FINANCE

#### PERSONAL FINANCE

**BF052X0**

**1 Credit(s)**

Prerequisite: None

This course prepares students to understand economic activities and challenges of individuals and families, the role of lifestyle goals in education and career choices, procedures in a successful job search, financial forms used in independent living, and shopping options and practices for meeting consumer needs. The course also prepares students to understand consumer rights, responsibilities, and information, protect personal and family resources, and apply procedures for managing personal finances. English language arts and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes CFNC.org Certified Financial Basics for High School and Beyond, EverFi, WISE

Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

#### PRINCIPLES OF BUSINESS AND FINANCE

**BF102X0**

**1 Credit(s)**

Prerequisite: None

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes

Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

**MICROSOFT EXCEL**

**BM202X0**

**1 Credit(s)**

Prerequisite: None

Students in Microsoft Imagine Academy benefit from world-class Microsoft curriculum and cutting-edge software tools to tackle real-world challenges in the classroom environment. This class is designed to prepare students for success completion of the Microsoft Office Specialist Excel Core and Excel Expert exams.

Successful candidates for the Microsoft Office Specialist Excel 2016 certification exam will have a fundamental understanding of the Excel environment and the ability to complete tasks independently. They will know and demonstrate the correct application of the principle features of Excel 2016. Candidates create and edit a workbook with multiple sheets, and they use a graphic element to represent data visually. Workbook examples include professional-looking budgets, financial statements, team performance charts, sales invoices, and data-entry logs.

Expert-level candidates for the Excel 2016 exam have an advanced understanding of the Excel environment and have the ability to guide others to the proper use of the program's features.

They create, manage, and distribute professional spreadsheets for a variety of specialized purposes and situations. They customize their Excel environments to meet project needs and to enhance productivity. Expert workbook examples include custom business templates, multiple-axis financial charts, amortization tables, and inventory schedules. Career possibilities may include accountants, financial analysts, data analysts, commercial bankers, and others.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) and/or Access

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MICROSOFT EXCEL (HONORS)**

**BM205X0**

**1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Microsoft Excel, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments. Students will be expected to take and pass the Microsoft Office Specialist (MOS) certification exams for Microsoft Excel.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS)

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

### **ACCOUNTING I**

**BA102X0**

**1 Credit(s)**

Prerequisite: None

This course is designed to help students understand the basic principles of the accounting cycle. Emphasis is placed on the analysis and recording of business transactions, preparation, and interpretation of financial statements, accounting systems, banking and payroll activities, basic types of business ownership, and an accounting career orientation. Mathematics is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

### **ACCOUNTING I (HONORS)**

**BA105X0**

**1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Accounting I, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

### **ACCOUNTING II (HONORS)\***

**BA205X0**

**1 Credit(s)**

Prerequisite: BA10 Accounting I

This course is designed to provide students with an opportunity to develop in-depth knowledge of accounting procedures and techniques utilized in solving business problems and making financial decisions. Emphasis includes departmental accounting, corporate accounting, cost accounting, and inventory control systems, managerial accounting and budgeting, and further enhancement of accounting skills. Future Business Leaders of America (FBLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Intuit QuickBooks Certified User

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP I** **ME112X0** **1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In this course, students evaluate the concepts of going into business for themselves and working for or operating a small business. Emphasis is on the exploration of feasible ideas of products/services, research procedures, business financing, marketing strategies, and access to resources for starting a small business. Students develop components of a business plan and evaluate startup requirements. English language arts and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP I (HONORS)** **ME115X0** **1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In addition to the standard course requirements for Entrepreneurship I, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**BUSINESS LAW** **BB302X0** **1 Credit(s)**

Prerequisite: BF10 Principles of Business and Finance

This course is designed to acquaint students with the basic legal principles common to all aspects of business and personal law. Business topics include contract law, business ownership including intellectual property, financial law, and national and international laws. Personal topics include marriage and divorce law, purchasing appropriate insurance, renting and owning real estate, employment law, and consumer protection laws. Social studies and English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** Yes

Aligned Industry Credential: None

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**BUSINESS LAW (HONORS)**

**BB305XO**

**1 Credit(s)**

Prerequisite: BF10 Principles of Business and Finance

In addition to the standard course requirements for Business Law, this Honor- level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** Yes

Aligned Industry Credential: None

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

## HEALTH SCIENCE



Pathways					Cluster Enhancement Courses
<b>Therapeutic Services</b>  <b>Diagnostic Services</b>  <b>Health Informatics</b>  <b>Support Services</b>	HU10 Health Team Relations	HB11 Biomedical Technology I  HU40 Health Science I	HB12 Biomedical Technology II*  HU42 Health Science II*  IP21 Emergency Medical Technology I	HH32 Pharmacy Technician  HN43 Nursing Fundamentals  IP22 Emergency Medical Technology II*  CS95 CTE Advanced Studies	AU71 Biotechnology & Agriscience Research I CC45 Career Management BF05 Personal Finance BF10 Principles of Business & Finance BM10 Microsoft Word & PowerPoint BM20 Microsoft Excel CS96 CTE Apprenticeship CS97 CTE Internship FC11 Principles of Family and Human Services FE60 Parenting and Child Development FN41 Foods I IP11 Public Safety I IP12 Public Safety II ME11 Entrepreneurship I MM51 Marketing

### THERAPEUTIC SERVICES, DIAGNOSTIC SERVICES, HEALTH INFORMATICS, SUPPORT SERVICES

#### HEALTH TEAM RELATIONS

**HU102X0**

**1 Credit(s)**

Prerequisite: None

This course is designed to assist potential health care workers in their role and function as health team members. Topics include medical terminology, the history of health care, healthcare agencies, ethics, legal responsibilities, health careers, holistic health, health care trends, cultural awareness, communication, medical math, leadership, and career decision making. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: FHP

**BIOMEDICAL TECHNOLOGY I****HB112X0****1 Credit(s)**

Prerequisite: None

This course challenges students to investigate current trends in health care . Topics include ethics, forensic medicine, infectious diseases, organ transplants, cell biology and cancer, and biomedical research. English language arts and science are reinforced in this course. Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: HOSA Future Health Professionals

**BIOMEDICAL TECHNOLOGY II\*****HB122X0****1 Credit(s)**

Prerequisite: HB11 Biomedical Technology I

This course focuses on genetics, neurobiology, sleep disorder and biological rhythms, bioethics, the evolution of medicine, and use of technology to study cellular and molecular biology. The curriculum was developed by the National Institutes of Health (NIH). Students will learn about careers in biotechnology within the context of the course content. Projects, teamwork, and demonstrations serve as instructional strategies that reinforce the curriculum content. English language arts and science are reinforced in this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: HOSA Future Health Professionals

**BIOMEDICAL TECHNOLOGY II (HONORS)\*****HB125X0****1 Credit(s)**

Prerequisite: HB11 Biomedical Technology I

In addition to the standard course requirements of Biomedical Technology II, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: HOSA Future Health Professionals

**PHARMACY TECHNICIAN (HONORS)****HH325X0****1 Credit(s)**

Prerequisite: HU32 Health Science II

\*\*CTE will fund up to 10 students per school.

This course has self-paced, on-line instruction designed to prepare high school seniors for a pharmacy technician career. Topics included in this course are federal law, medication used in major body systems, calculations, and



pharmacy operations. Mathematics is reinforced in this course. Work-based learning strategies appropriate for this course include an apprenticeship, cooperative education, internship, or mentorship. Health Occupations Students of America (HOSA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills High School Program Planning Guide 2017-18 46 through authentic experiences. This course is accredited by the Accreditation Council for Pharmacy Education (APCE). Upon successful completion of this course and after graduation, the student is eligible to take the Pharmacy Technician Certification Board (PTCB) exam.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: FHP

### **HEALTH SCIENCE I**

**HU402X0**

**1 Credit(s)**

Prerequisite: Biology is recommended as preparation for this course.

This course focuses on human anatomy, physiology and human body diseases and disorders, and biomedical therapies. Students will learn about health care careers within the context of human body systems. Projects, teamwork, and demonstrations serve as instructional strategies that reinforce the curriculum content. English language arts and science are reinforced in this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: FHP

### **HEALTH SCIENCE I (HONORS)**

**HU405X0**

**1 Credit(s)**

Prerequisite: Biology is recommended as preparation for this course.

In addition to the standard course requirements of Health Science I, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be extended to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: FHP

### **HEALTH SCIENCE II\***

**HU422X0**

**1 Credit(s)**

Prerequisite: HU40 Health Science I OR HP71 PLTW Human Body Systems

This course is designed to help students expand their understanding of financing and trends of healthcare agencies, fundamentals of wellness, legal and ethical issues, concepts of teamwork, and effective

communication. Students will learn health care skills, including current CPR and first aid training for healthcare professionals. English language arts and science are reinforced in this course. Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: FHP

**HEALTH SCIENCE II\* (HONORS)**

**HU425X0**

**1 Credit(s)**

Prerequisite: HU40 Health Science I OR HP71 PLTW Human Body Systems

In addition to the standard course requirements Health Science II, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: FHP

**NURSING FUNDAMENTALS**

**HN435X0**

**2 Credit(s)**

Prerequisite: HU42 Health Science II

This course is designed for students interested in medical careers where personal care and basic nursing skills are used. This course is an enhanced adaptation of the North Carolina Division of Health Service Regulation (DHSR) Nurse Aide I (NAI) curriculum and helps prepare students for the National Nurse Aide Assessment (NNAAP). Students who pass the NNAAP become listed on the NC NAI Registry. English language arts mathematics, and science are reinforced.

\*Enrollment is limited per North Carolina Board of Nursing (BON) Administrative Rule 21 NCAC 36.0318(i), which requires the ratio of teacher to nurse aide students be 1:10 or less while in the clinical area. DHSR applies BON Rule to the classroom training area.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** No **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential:

Affiliated CTE Student Organization: FHP

**EMERGENCY MEDICAL TECHNOLOGY I**

**IP212X0**

**1 Credit(s)**

Prerequisite: English II

This course is aligned to the EMT Basic certification available from the North Carolina Office of Emergency Medical Services and is part I of a two course sequence require to meet the mandatory hours of training. The course includes skills in each area, using resources from the community to help deliver instruction to the

students. English language arts are reinforced. Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**EMERGENCY MEDICAL TECHNOLOGY II\***

**IP225XO**

**1 Credit(s)**

Prerequisite: IP21 Emergency Management I and English III

This course is aligned to the EMT Basic certification available from the North Carolina Office of Emergency Medical Services and is part II of a two course sequence require to meet the mandatory hours of training. The course includes skills in each area, using resources from the community to help deliver instruction to the students. English language arts are reinforced.


In addition to the standard course requirements, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

## HOSPITALITY & TOURISM

Pathways	 <b>Hospitality &amp; Tourism</b>				Cluster Enhancement Courses
<b>Restaurants &amp; Food/Beverage Service</b>	FN41 Food and Nutrition I	FH20 Introduction to Culinary Arts & Hospitality FH71 ProStart I FN42 Food and Nutrition II*	FH21 Culinary Arts & Hospitality I FH72 ProStart II*	FH22 Culinary Arts & Hospitality II*  CS95 CTE Advanced Studies	CC45 Career Management BD10 Multimedia & Webpage Design BM10 Microsoft Word & PowerPoint BM20 Microsoft Excel AU11 Agricultural Production & Management I AA31 Equine Science I BF05 Personal Finance CS96 CTE Apprenticeship CS97 CTE Internship FC11 Principles of Family and Human Services
<b>Travel &amp; Tourism</b>	BF10 Principles of Business & Finance  MH31 Sports & Entertainment Marketing I  MM51 Marketing	MH32 Sports & Entertainment Marketing II*  MH42 Hospitality and Tourism*	ME11 Entrepreneurship I  CS11 Project Management I	ME12 Entrepreneurship II  CS95 CTE Advanced Studies	

### RESTAURANTS AND FOOD & BEVERAGE SERVICE

#### **FOODS AND NUTRITION I**

**FN412X0**

**1 Credit(s)**

Prerequisite: FC11 Principles of Family and Human Services recommended

This course examines the nutritional needs of the individual. Students learn fundamentals of food production, kitchen and meal management, food groups and their preparation, and time and resource management. English language arts, mathematics, science, and social studies are reinforced.

\*For safety and sanitation reasons, enrollment should not exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

#### **FOODS AND NUTRITION II\***

**FN422X0**

**1 Credit(s)**

Prerequisite: FN41 Foods I OR FH21 Culinary Arts and Hospitality I

In this course, students experience the cross-section of nutrition science and food preparation while building skills for an expanding range of career opportunities. Emphasis is placed on health and social responsibility while

improving the way people eat. Students come to understand food protection, nutrients, lifespan nutrition, sports nutrition, medical nutrition therapy, American and global foodways, and entrepreneurship. English language arts, social studies, mathematics, and science are reinforced.

\*For safety and sanitation reasons, enrollment should not exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes ServSafe Food Protection Managers Certification

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**FOODS AND NUTRITION II\* (HONORS) FN425X0 1 Credit(s)**  
Prerequisite: FN41 Foods I OR FH21 Culinary Arts and Hospitality I

In addition to the standard course requirements Foods II- Enterprise, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

\*For safety and sanitation reasons, enrollment should not exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes ServSafe Food Protection Managers Certification

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**INTRODUCTION TO CULINARY ARTS AND HOSPITALITY FH202X0 1 Credit(s)**  
Prerequisite: None

In this course, basic safety and sanitation practices leading to a national industry-recognized food safety credential are introduced. Commercial equipment, smallwares, culinary math, and basic knife skills in a commercial foodservice facility are taught. Art, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes ServSafe Food Protection Managers Certification

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**CULINARY ARTS AND HOSPITALITY I FH212X0 1 Credit(s)**  
Prerequisite: FH20 Introduction to Culinary Arts and Hospitality

This course focuses on basic skills in cold and hot food production, baking and pastry, and service skills. An in-school foodservice business component allows student to apply knowledge and skills in a commercial setting. Art, English language arts, mathematics, and science are reinforced.

\*For safety reasons, enrollment is not to exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Certified Restaurant Server and Serv Safe Food Protection Managers Certification

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**CULINARY ARTS AND HOSPITALITY II\*** **FH222X0** **2 Credit(s)**

Prerequisite: FH21 Culinary Arts and Hospitality I

This course provides advanced experiences in cold and hot food production, management (front and back of the house), and service skills. Topics include menu planning, business management, and guest relations. An in-school foodservice business component allows to apply knowledge and skills in a commercial setting. Art, English language arts, mathematics, and science are reinforced.

\*For safety reasons, enrollment is not to exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**CULINARY ARTS AND HOSPITALITY II\* (HONORS)** **5X05X0** **2 Credit(s)**

Prerequisite: FH21 Culinary Arts and Hospitality I

In addition to the standard course requirements Culinary Arts and Hospitality II, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

\*For safety reasons, enrollment is not to exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**PROSTART I®** **FH712X0** **1 Credit(s)**

Prerequisite: None (Foods I recommended)

This course allows students to survey culinary techniques and restaurant management skills. Students learn about the industry, food and kitchen safety, kitchen and management foundations, front-of-house operations, and basic food preparation including salads, sandwiches, baked goods, and stocks, sauces, and soups. Students

also learn communication skills, professional expectations, and how to build a food service career. Students should complete 200 hours of the required 400-hour, one-credit internship, which will lead to the National ProStart Certificate of Achievement. English, language arts, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**PROSTART I® (HONORS)** **FH715X05X0** **1 Credit(s)**  
Prerequisite: None (Foods I recommended)

In addition to the standard course requirements in ProStart I, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**PROSTART I® COOP** **6X0FH716X0** **1 Credit(s)**  
Prerequisite: None (Foods I recommended)  
Recommended for students in grade 11 due to labor laws

Students enrolled in ProStart I are required to complete 200-hours of paid or unpaid internship. The hours will count toward the National ProStart® Certificate of Achievement, earned at the conclusion of ProStart® II. Cooperative education is a method of instruction where CTE instruction is combined with paid employment that is directly related to classroom instruction. Students must register for both the CTE classroom course and Cooperative Education Work component during the same academic year.

Work Based Learning Opportunities **Cooperative Education:** Yes

**PROSTART II® \*** **FH722X0** **1 Credit(s)**  
Prerequisite: FH71 ProStart I®

This course allows students to survey culinary techniques and restaurant management skills. Students learn restaurant marketing, menu management, controlling, foodservice costs, human resources, and food products and preparation, including breakfast foods; fruits, vegetables, and starches; meat, poultry, and seafood; and baked goods and desserts. Students also learn about sustainability, nutrition, and the role of foodservice operations in these initiatives. Students should complete 200 hours of the required 400-hour, one-credit internship, which will lead to the National ProStart Certificate of Achievement. Apprenticeship is available for this course. English, language arts, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**PROSTART II® \* (HONORS)** **FH725X0** **1 Credit(s)**

Prerequisite: FH71 ProStart I®

In addition to the standard course requirements ProStart II, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**PROSTART II® COOP** **FH726X0** **1 Credit(s)**

Prerequisite: None (Foods I recommended)

Recommended for students in grade 12 due to labor laws

Students enrolled in ProStart II are required to complete 200-hours of paid or unpaid internship. The hours will count toward the National ProStart® Certificate of Achievement, earned at the conclusion of ProStart® II. Cooperative education is a method of instruction where CTE instruction is combined with paid employment that is directly related to classroom instruction. Students must register for both the CTE classroom course and Cooperative Education Work component during the same academic year.

Work Based Learning Opportunities **Cooperative Education:** Yes

## TRAVEL AND TOURISM

**PRINCIPLES OF BUSINESS AND FINANCE** **BF102X0** **1 Credit(s)**

Prerequisite: None

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes



Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

**SPORTS AND ENTERTAINMENT MARKETING I**                      **MH312X0**                      **1 Credit(s)**  
Prerequisite: BF10 Principles of Business and Finance

In this course, students are introduced to the industry of sports, entertainment, and event marketing. Students acquire transferable knowledge and skills among related industries for planning sports, entertainment, and event marketing. Topics included are branding, licensing, and naming rights, business foundations, concessions and on-site merchandising, economic foundations, human relations, and safety and security. Mathematics and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

**SPORTS AND ENTERTAINMENT MARKETING II\***                      **MH322X0**                      **1 Credit(s)**  
Prerequisite: MH31 Sports and Entertainment Marketing I

In this course, students acquire an understanding of selling, promotion, and market planning of sports, entertainment, and event marketing. Emphasis is on business management, career development, client relations, contracts, ethics, event management, facilities management, legal issues, and sponsorships. English/language arts, mathematics and Social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

**SPORTS AND ENTERTAINMENT MARKETING II\* (HONORS)**                      **MH325X0**                      **1 Credit(s)**  
Prerequisite: MH31 Sports and Entertainment Marketing I

In addition to the standard course requirements for Sports and Entertainment Marketing II, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

**MARKETING**

**MM512X0**

**1 Credit(s)**

Prerequisite: None

In this course, students develop an understanding of the processes involved from the creation to the consumption of products/services. Students develop an understanding and skills in the areas of distribution, marketing-information management, market planning, pricing,

product/service management, promotion, and selling. Students develop an understanding of marketing functions applications and impact on business operations. Mathematics and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

**MARKETING COOPERATIVE**

**MM516X0**

**1 Credit(s)**

Corequisite: Marketing MM51 in the same academic year

Cooperative education is a method of instruction where CTE instruction is combined with paid employment that is directly related to classroom instruction. Students must register for both the CTE classroom course and Cooperative Education Work component during the same academic year. A student must complete a minimum of 135 hours in a work-based experience. In addition to the standards defined in the Cooperative Education Policies and Procedures Manual, the following standards must be followed.

**HOSPITALITY AND TOURISM\***

**MH422X0**

**1 Credit(s)**

Prerequisite: MM51 Marketing or BF10 Principles of Business and Finance or MH31 Sports and Entertainment Marketing I

In this course, students acquire understanding of the economic impact and marketing strategies for hospitality and tourism destinations. Emphasis is on destination complexity, customer relations, economics, legal and ethical responsibilities, safety and security, and tourism promotion. English, language arts, mathematics, social studies and technology are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

**HOSPITALITY AND TOURISM\* (HONORS)**

**X05X0**

**1 Credit(s)**

Prerequisite: MM51 Marketing or BF10 Principles of Business and Finance or MH31 Sports and Entertainment Marketing I

In addition to the standard course requirements for Hospitality and Tourism, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

**ENTREPRENEURSHIP I** **ME112X0** **1 Credit(s)**  
Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In this course, students evaluate the concepts of going into business for themselves and working for or operating a small business. Emphasis is on the exploration of feasible ideas of products/services, research procedures, business financing, marketing strategies, and access to resources for starting a small business. Students develop components of a business plan and evaluate startup requirements. English language arts and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP I (HONORS)** **ME115X0** **1 Credit(s)**  
Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In addition to the standard course requirements for Entrepreneurship I, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**PROJECT MANAGEMENT I** **CS112X0** **1 Credit(s)**

Prerequisite: None

This course will introduce students to the principles, concepts, and software applications used in the management of projects. Through project-based learning, students will understand how to use the framework of initiating, planning, executing, monitoring and controlling, and closing a project in authentic situations. The core concepts of scope, time, cost, and integration will be examined during this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA),FFA, Family Career and Community Leaders of America (FCCLA), Skill USA, HOSA, and Technology Student Association (TSA)

### **ENTREPRENEURSHIP II (HONORS)**

**ME125X0**

**1 Credit(s)**

Prerequisite: ME11 Entrepreneurship I


In this course students develop an understanding of pertinent decisions to be made after obtaining financing to open a small business. Students acquire in-depth understanding of business regulations, risks, management, and marketing. Students develop a small-business management handbook. English language arts and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Concepts of Entrepreneurship & Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

## HUMAN SERVICES

Pathways	 <b>Human Services</b>				Cluster Enhancement Courses
<b>Early Childhood Development &amp; Services</b>	FC11 Principles of Family and Human Services  BF05 Personal Finance  BF10 Principles of Business & Finance	FE60 Parenting & Child Development	FE11 Early Childhood Education I	FE12 Early Childhood Education II*  CS95 CTE Advanced Studies	CC45 Career Management BM10 Microsoft Word & PowerPoint BM20 Microsoft Excel FN41 Foods I ME11 Entrepreneurship I CS96 CTE Apprenticeship CS97 CTE Internship

### EARLY CHILDHOOD DEVELOPMENT AND SERVICES

**PRINCIPLES OF FAMILY AND HUMAN SERVICES**                      **FC112X0**                      **1 Credit(s)**  
 Prerequisite: None

Students learn life literacy skills and individual, family, and community systems in the context of the human services field. Emphasis is placed on human development, professional skills, diversity, analyzing community issues, and life management. Activities engage students in exploring various helping professions, while building essential life skills they can apply in their own lives to achieve optimal wellbeing. English/language arts, social studies, mathematics, science, technology, and interpersonal relationships are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**PERSONAL FINANCE**    **BF052X0**    **1 Credit(s)**  
 Prerequisite: None

This course prepares students to understand economic activities and challenges of individuals and families, the role of lifestyle goals in education and career choices, procedures in a successful job search, financial forms used in independent living, and shopping options and practices for meeting consumer needs. The course also prepares students to understand consumer rights, responsibilities, and information, protect personal and family resources, and apply procedures for managing personal finances. English language arts and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes CFNC.org Certified Financial Basics for High School and Beyond, EverFi, WISE

Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

### **PRINCIPLES OF BUSINESS AND FINANCE**

**BF102X0**

**1 Credit(s)**

Prerequisite: None

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes

Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

### **PARENTING AND CHILD DEVELOPMENT**

**FE602X0**

**1 Credit(s)**

Prerequisite: None

This course introduces students to responsible nurturing and basic applications of child development theory with children from infancy through six. Areas of study include parenthood decisions, child care issues, prenatal development and care, and development and care of infants, toddlers, and children three through six. Emphasis is on responsibilities of parents, readiness for parenting, and the influence parents have on children while providing care and guidance. Art, English language arts, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

### **EARLY CHILDHOOD EDUCATION I**

**FE112X0**

**2 Credit(s)**

Prerequisite: Students must be 16 by October 1<sup>^</sup>. Parenting and Child Development is a recommended prerequisite for this course.

This two-credit course prepares students to work with children in early education and child care settings. Areas of study include personal and professional preparation, child development from birth to age 12, techniques and procedures for working with young children, and history, trends and opportunities in this field. An internship makes up 50 percent of instructional time. Due to student participation internships at early childhood centers that meet NC Child Care General Statute 110-91 Section 8, students must be 16 years of age prior to October 1

to enroll in this course. [www.ncleg.net/gascrpts/statuelookup.pl?statue=110\\_91](http://www.ncleg.net/gascrpts/statuelookup.pl?statue=110_91) Parenting and Child Development is a recommended prerequisite for this course.

\*For safety reasons, enrollment should not exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes CPR and First Aid

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**EARLY CHILDHOOD EDUCATION II (HONORS)\*** **FE125X0** **2 Credit(s)**

Prerequisite: FE11 Early Childhood Education I and Students must be 16 by October 1^

This two-credit course provides advanced experiences in working with children from infancy to age 12 in early education and child care settings. Areas of study include program planning and management, developmentally appropriate practice, procedures and strategies for working with special groups of children, career development and professionalism. An internship makes up 50 percent of instructional time. Due to student participation internships at early childhood centers that meet NC Child Care General Statute 110-91 Section 8, students must be 16 years of age prior to October 1 to enroll in this course.


[www.ncleg.net/gascrpts/statuelookup.pl?statue=110\\_91](http://www.ncleg.net/gascrpts/statuelookup.pl?statue=110_91)

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes CPR , First Aid, and NC Early Childhood Credential Equivalency

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

## INFORMATION TECHNOLOGY

Pathways	 <b>CareerClusters™</b> PATHWAYS TO COLLEGE & CAREER READINESS <b>Information Technology</b>				Cluster Enhancement Courses
<b>Programming &amp; Software Development</b>	BI10 Foundations of Information Technology  BF10 Principles of Business & Finance  BM20 Microsoft Excel	BP10 Computer Programming I  0A02 Computer Science Principles	BP12 Computer Programming II*  BP20 SAS Programming I*	2A02 AP Computer Science	CC45 Career Management ME11 Entrepreneurship I BF05 Personal Finance CS96 CTE Apprenticeship CS97 CTE Internship
<b>Web &amp; Digital Communications</b>	BF10 Principles of Business & Finance  BM10 Microsoft Word & PowerPoint  BI10 Foundations of Information Technology	BD10 Multimedia & Webpage Design*  II31 Adobe Visual Design	BD12 e-Commerce I*  II32 Adobe Digital Design*  II33 Adobe Video Design*	CS95 CTE Advanced Studies	
<b>Information Support &amp; Services</b>	BI10 Foundations of Information Technology  BM20 Microsoft Excel	II21 Computer Engineering Technology I	II22 Computer Engineering Technology II*	CS95 CTE Advanced Studies	
<b>Network Systems</b>	BI10 Foundations of Information Technology	II11 Cisco Network Engineering Technology I  CS11 Project Management	II12 Cisco Network Engineering Technology II*	CS95 CTE Advanced Studies	

### PROGRAMMING AND SOFTWARE DEVELOPMENT

#### PRINCIPLES OF BUSINESS AND FINANCE

**BF102X0**

**1 Credit(s)**

Prerequisite: None

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes



Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

**FOUNDATION OF INFORMATION TECHNOLOGY**                      **BI102X0**                      **1 Credit(s)**

Prerequisite: None

This introductory course provides students with the foundation to pursue further study in information technology. Emphasis is on network systems, information support and services, programming and software development, and interactive media. Mathematics is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: Yes Comp TIA IT fundamentals

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MICROSOFT EXCEL**    **2X0BM202X0**                      **1 Credit(s)**

Prerequisite: None

Students in Microsoft Imagine Academy benefit from world-class Microsoft curriculum and cutting-edge software tools to tackle real-world challenges in the classroom environment. This class is designed to prepare students for success completion of the Microsoft Office Specialist Excel Core and Excel Expert exams.

Successful candidates for the Microsoft Office Specialist Excel 2016 certification exam will have a fundamental understanding of the Excel environment and the ability to complete tasks independently. They will know and demonstrate the correct application of the principle features of Excel 2016. Candidates create and edit a workbook with multiple sheets, and they use a graphic element to represent data visually. Workbook examples include professional-looking budgets, financial statements, team performance charts, sales invoices, and data-entry logs.

Expert-level candidates for the Excel 2016 exam have an advanced understanding of the Excel environment and have the ability to guide others to the proper use of the program’s features.

They create, manage, and distribute professional spreadsheets for a variety of specialized purposes and situations. They customize their Excel environments to meet project needs and to enhance productivity. Expert workbook examples include custom business templates, multiple-axis financial charts, amortization tables, and inventory schedules. Career possibilities may include accountants, financial analysts, data analysts, commercial bankers, and others.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) and/or Access

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MICROSOFT EXCEL (HONORS)**    **BM205X0**                      **1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Microsoft Excel, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments. Students will be expected to take and pass the Microsoft Office Specialist (MOS) certification exams for Microsoft Excel.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS)

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

### **AP COMPUTER SCIENCE PRINCIPLES**

**0A027X0**

**1 Credit(s)**

Prerequisite: None

In this course, students will develop computational thinking vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world. It's recommended that a student in the AP Computer Science Principles course should have successfully completed a first year high school algebra course with a strong foundation on basic linear functions and composition of functions, and problem solving strategies that require multiple approaches and collaborative efforts. In addition, students should be able to use a Cartesian (x,y) coordinate system to represent points in a plane. It is important that students and their advisers understand that any significant computer science course builds upon a foundation of mathematical and computational reasoning that will be applied throughout the study of the course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** No **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

### **COMPUTER PROGRAMMING I**

**BP102X0**

**1 Credit(s)**

Prerequisite: None

This course is designed to introduce the concepts of programming, application development, and writing software solutions in the Visual Studio environment. Emphasis is placed on the software development process, principles of user interface design, and the writing of a complete .Visual Basic program including obtaining and validating user input, logical decision making and processing, graphics, and useful output. Mathematics is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**COMPUTER PROGRAMMING II (HONORS)\*** **BP125X0** **1 Credit(s)**

Prerequisite: BP10 Computer Programming I

This course is designed to teach students advanced programming concepts, including class structures, multimedia programming, advanced arrays, and file structure. Mathematics is reinforced and entrepreneurial experiences encouraged. Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**SAS PROGRAMMING I\*** **BP202X0** **1 Credit(s)**

Prerequisite: One course in another computer programming language

This course is the entry point for students to learn SAS programming. Students will learn how to plan and write SAS programs to solve common data analysis problems. Instruction provides practice running and debugging programs. The emphasis is placed on reading input data, creating list and summary reports, defining new variables, executing code conditionally, reading raw data files and SAS data sets, and writing the results to SAS data sets. Mathematics is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes One course in another computer programming language

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**SAS PROGRAMMING I\* (HONORS)** **BP205X0** **1 Credit(s)**

Prerequisite: One course in another computer programming language

In addition to the standard course requirements for SAS Computer Programming I, this Honors course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes One course in another computer programming language

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**AP COMPUTER SCIENCE**

**2A027X0**

**1 Credit(s)**

Prerequisite: None

This is a college-level introductory course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. In addition, the responsible use of these systems is an integral part of the course. The course is designed to be the equivalent of a first semester college course in computer science. Mathematics is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**WEB & DIGITAL COMMUNICATIONS**

**PRINCIPLES OF BUSINESS AND FINANCE**

**BF102X0**

**1 Credit(s)**

Prerequisite: None

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes

Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

**FOUNDATION OF INFORMATION TECHNOLOGY**

**BI102X0**

**1 Credit(s)**

Prerequisite: None

This introductory course provides students with the foundation to pursue further study in information technology. Emphasis is on network systems, information support and services, programming and software development, and interactive media. Mathematics is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: Yes Comp TIA IT fundamentals

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MICROSOFT WORD & POWERPOINT** **BM102XO** **1 Credit(s)**

Prerequisite: None

Students in the Microsoft Imagine Academy benefit from world-class Microsoft curriculum and software tools to tackle real-world challenges in the classroom environment. In the first part, students will learn to use the newest version of Microsoft Word interface, commands, and features to create, enhance, customize, share and create complex documents, and publish them. In the second part, students will learn to use the newest version of Microsoft PowerPoint interface, commands, and features to create, enhance, customize, and deliver presentations. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) in Word and/or PowerPoint

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MICROSOFT WORD & POWERPOINT (HONORS)** **BM105XO** **1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Microsoft Word & PowerPoint, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments. Students will be expected to take and pass the Microsoft Office Specialist (MOS) certification exams for Microsoft Word and Microsoft PowerPoint.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) in Word and/or PowerPoint

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MULTIMEDIA AND WEBPAGE DESIGN\*** **BD102XO** **1 Credit(s)**

Prerequisite: BM10 Microsoft Word and PowerPoint

This course focuses on desktop publishing, graphic image design, computer animation, multimedia production, and webpage design. Communication skills and critical thinking are reinforced through software applications. English language arts and arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: No Word and PowerPoint

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**E-COMMERCE I\*** **BD122X0** **1 Credit(s)**

Prerequisite: BD10 Multimedia and Webpage Design

This course is designed to help students master skills in the design and construction of complex web sites for conducting business electronically. Emphasis is on skill development in advanced web page construction and entrepreneurial applications of conducting business electronically as well as economic, social, legal, and ethical issues related to electronic business. Students learn through project-based applications as they plan, design, create, publish, maintain, and promote an e-commerce website. Art is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes MTA 98-375 HTML 5 Application Developer Fundamentals

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**E-COMMERCE I\* (HONORS)** **BD125X0** **1 Credit(s)**

Prerequisite: BD10 Multimedia and Webpage Design

This course is designed to help students master skills in the design and construction of complex web sites for conducting business electronically. Emphasis is on skill development in advanced web page construction and entrepreneurial applications of conducting business electronically as well as economic, social, legal, and ethical issues related to electronic business. Students learn through project-based applications as they plan, design, create, publish, maintain, and promote an e-commerce website. Art is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes MTA 98-375 HTML 5 Application Developer Fundamentals

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**ADOBE VISUAL DESIGN** **I1312X0** **1 Credit(s)**

Prerequisite: None

This course is a project-based course that develops ICT, career, and communication skills in print and graphic design using Adobe tools. This course is aligned to Adobe Photoshop, InDesign, and Illustrator certification. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** No **Job Shadowing:** No **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** No  
Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**ADOBE DIGITAL DESIGN\*** **II322X0** **1 Credit(s)**

Prerequisite: II31 Adobe Visual Design

This course is a project-based course that develops ICT, career, and communication skills in Web design using Adobe tools. This course is aligned to Adobe Dreamweaver and Flash certification. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** No **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**ADOBE VIDEO DESIGN\*** **II332X0** **1 Credit(s)**

Prerequisite: II31 Adobe Visual Design

This course is a project-based video course that develops career and communication skills in video production using Adobe tools. This course is aligned to Adobe Premiere certification. English language arts are reinforced.  
Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** No **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

## INFORMATION SUPPORT & SERVICES

**FOUNDATION OF INFORMATION TECHNOLOGY** **BI102X0** **1 Credit(s)**

Prerequisite: None

This introductory course provides students with the foundation to pursue further study in information technology. Emphasis is on network systems, information support and services, programming and software development, and interactive media. Mathematics is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No  
**Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: Yes Comp TIA IT fundamentals

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**MICROSOFT EXCEL** **2X0BM202X0** **1 Credit(s)**

Prerequisite: None

Students in Microsoft Imagine Academy benefit from world-class Microsoft curriculum and cutting-edge software tools to tackle real-world challenges in the classroom environment. This class is designed to prepare students for success completion of the Microsoft Office Specialist Excel Core and Excel Expert exams.

Successful candidates for the Microsoft Office Specialist Excel 2016 certification exam will have a fundamental understanding of the Excel environment and the ability to complete tasks independently. They will know and demonstrate the correct application of the principle features of Excel 2016. Candidates create and edit a workbook with multiple sheets, and they use a graphic element to represent data visually. Workbook examples include professional-looking budgets, financial statements, team performance charts, sales invoices, and data-entry logs.

Expert-level candidates for the Excel 2016 exam have an advanced understanding of the Excel environment and have the ability to guide others to the proper use of the program's features.

They create, manage, and distribute professional spreadsheets for a variety of specialized purposes and situations. They customize their Excel environments to meet project needs and to enhance productivity. Expert workbook examples include custom business templates, multiple-axis financial charts, amortization tables, and inventory schedules. Career possibilities may include accountants, financial analysts, data analysts, commercial bankers, and others.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS) and/or Access

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

### **MICROSOFT EXCEL (HONORS)**

**BM205X0**

**1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Microsoft Excel, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments. Students will be expected to take and pass the Microsoft Office Specialist (MOS) certification exams for Microsoft Excel.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Microsoft Office Specialist (MOS)

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

### **COMPUTER ENGINEERING TECHNOLOGY I**

**II212X0**

**1 Credit(s)**

Prerequisite: None



This course is the first in a two course series that introduces the skills required for entry level PC technicians. It includes objectives in the following four domains, a) PC Hardware, b) Networking c) Mobile devices d) Hardware and networking troubleshooting. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA, Future Business Leaders of America (FBLA)

**COMPUTER ENGINEERING TECHNOLOGY I (HONORS) II215X0X0 1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Computer Engineering Technology I, this Honors course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA, Future Business Leaders of America (FBLA)

**COMPUTER ENGINEERING TECHNOLOGY II\* (HONORS) II225X0 1 Credit(s)**

Prerequisite: II21 Computer Engineering Technology I

This course is the second in a two course series that introduces the skills required for entry level PC technicians. It includes objectives in the following five domains, a) Windows operating system, b) Other operating systems and technologies c) Security, d) Software troubleshooting, e) Operational procedures. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

## NETWORK SYSTEMS

**FOUNDATION OF INFORMATION TECHNOLOGY BI102X0 1 Credit(s)**

Prerequisite: None

This introductory course provides students with the foundation to pursue further study in information technology. Emphasis is on network systems, information support and services, programming and software development, and interactive media. Mathematics is reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: Yes Comp TIA IT fundamentals

Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

**CISCO NETWORK ENGINEERING TECHNOLOGY I (HONORS)      II1155X0      1Credit(s)**

Prerequisite: None

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. This course uses the Cisco Introduction to Networks curriculum and must be conducted using the Cisco Networking Academy connection. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA, Future Business Leaders of America (FBLA)

**CISCO NETWORK ENGINEERING TECHNOLOGY II\* (HONORS)      II125X0II12      1Credit(s)**

Prerequisite: II11 Cisco Network Engineering Technology I


This course describes the architecture, components, and operations of routers and switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. This course uses the Cisco Routing & Switching Essentials curriculum and must be conducted using the Cisco Networking Academy connection. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA, Future Business Leaders of America (FBLA)

## LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

Pathways	 <b>Law, Public Safety, Corrections &amp; Security</b>				Cluster Enhancement Courses
<b>Emergency &amp; Fire Management Services</b>	IP11 Public Safety I	IP31 Fire Fighter Technology I IP21 Emergency Medical Technology I	IP32 Fire Fighter Technology II* IP22 Emergency Medical Technology II*	IP33 Fire Fighter Technology III CS95 CTE Advanced Studies	CC45 Career Management BM10 Microsoft Word & PowerPoint BM20 Microsoft Excel MH42 Hospitality and Tourism BF10 Principles of Business & Finance BF05 Personal Finance CS96 CTE Apprenticeship CS97 CTE Internship FC11 Principles of Family and Human Services
<b>Corrections Services</b>  <b>Law Enforcement Services</b>  <b>Legal Services</b>  <b>Security and Protective Services</b>	IP11 Public Safety I	IP12 Public Safety II*		CS95 CTE Advanced Studies	

### EMERGENCY & FIRE MANAGEMENT SERVICES

#### **PUBLIC SAFETY I**

**IP112X0**

**1 Credit(s)**

Prerequisite: None

This course provides basic career information in public safety including corrections, emergency and fire management, security and protection, law enforcement, and legal services. FEMA certifications NIMS 100,200, 700, 800 are also a part of this course. Additionally students will develop a personal plan for a career in public safety. The course includes skills in each area, using resources from the community to help deliver instruction to the students. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: Yes FEMA: NIMS: IS-100.B, IS-700.A, IS-200.B, IS-800.B

Affiliated CTE Student Organization: SkillsUSA

#### **FIRE FIGHTER TECHNOLOGY I**

**IP312X0**

**1 Credit(s)**

Prerequisite: None

This course covers part of the NC Fire Fighter certification modules required for all fire fighters in North Carolina. The modules include: Orientation and Safety Health and Wellness; Fire Behavior; Personal Protective Equipment; Fire Hose, Streams, and Appliances, Portable Extinguishers; Foam Fire Streams; and Emergency Medical CARC. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**FIRE FIGHTER TECHNOLOGY II\*** **IP322X0** **1 Credit(s)**  
Prerequisite: IP31 Fire Fighter Technology I

This course covers additional NC Fire Fighter certification modules required for all fire fighters in North Carolina. The modules include: Building Construction; Ropes; Alarms and Communications; Forcible Entry; Ladders; Ventilation; Loss Control. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**FIRE FIGHTER TECHNOLOGY III** **IP332X0** **1 Credit(s)**  
Prerequisite: IP32 Fire Fighter Technology II

This course covers part of the NC Fire Fighter certification modules required for all fire fighters in North Carolina. The modules include: Water Supplies, Sprinkles, Fire & Life Preparedness, Rescue, Mayday, and Safety & Survival. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: Yes NC OSFM Fire Fighter Certification Modules FIP #: 3018, 3019, 3021, 3017, 3026, 3025

Affiliated CTE Student Organization: SkillsUSA

**EMERGENCY MEDICAL TECHNOLOGY I** **IP212X0** **1 Credit(s)**  
Prerequisite: English II

This course is aligned to the EMT Basic certification available from the North Carolina Office of Emergency Medical Services and is part I of a two course sequence require to meet the mandatory hours of training. The course includes skills in each area, using resources from the community to help deliver instruction to the students. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**EMERGENCY MEDICAL TECHNOLOGY II\*** **IP222X0** **1 Credit(s)**

Prerequisite: IP21 Emergency Management I and English III

This course is aligned to the EMT Basic certification available from the North Carolina Office of Emergency Medical Services and is part II of a two course sequence require to meet the mandatory hours of training. The course includes skills in each area, using resources from the community to help deliver instruction to the students. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**CORRECTIONS SERVICES, LAW ENFORCEMENT SERVICES, LEGAL SERVICES, SECURITY AND PROTECTIVE SERVICES**

**PUBLIC SAFETY I** **IP112X0** **1 Credit(s)**

Prerequisite: None

This course provides basic career information in public safety including corrections, emergency and fire management, security and protection, law enforcement, and legal services. FEMA certifications NIMS 100,200, 700, 800 are also a part of this course. Additionally students will develop a personal plan for a career in public safety. The course includes skills in each area, using resources from the community to help deliver instruction to the students. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: Yes FEMA: NIMS: IS-100.B, IS-700.A, IS-200.B, IS-800.B

Affiliated CTE Student Organization: SkillsUSA

**PUBLIC SAFETY II\*** **IP122X0** **1 Credit(s)**

Prerequisite: IP11 Public Safety I


This course provides a deeper level of understanding of career information in public safety by focusing on the Community Emergency Response Team (C.E.R.T.) Certification. CERT is a Federal Emergency Management Administration (FEMA) developed certification that incorporates all areas of public safety. Additionally, FEMA ICS300 Intermediate Incident Command System is covered in this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: Yes Community Emergency Response Team (CERT)- NC-317

Affiliated CTE Student Organization: SkillsUSA

## MANUFACTURING

Pathways					Cluster Enhancement Courses
<b>Manufacturing Production Process Development</b>	MM51 Marketing  MI21 Fashion Merchandising	FA31 Apparel and Textile Production I	FA32 Apparel and Textile Production II*  CS11 Project Management I	ME11 Entrepreneurship I  CS95 CTE Advanced Studies	CC45 Career Management BD10 Multimedia & Webpage Design BM10 Microsoft Word & PowerPoint BM20 Microsoft Excel AS31 Agricultural Mechanics I IC61 Drafting I BF05 Personal Finance CS96 CTE Apprenticeship CS97 CTE Internship

### MANUFACTURING PRODUCTION PROCESS DEVELOPMENT

#### MARKETING

**MM512X0**

**1 Credit(s)**

Prerequisite: None

In this course, students develop an understanding of the processes involved from the creation to the consumption of products/services. Students develop an understanding and skills in the areas of distribution, marketing-information management, market planning, pricing,

product/service management, promotion, and selling. Students develop an understanding of marketing functions applications and impact on business operations. Mathematics and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

#### MARKETING COOPERATIVE

**MM516X0**

**1 Credit(s)**

Corequisite: Marketing MM51 in the same academic year

Cooperative education is a method of instruction where CTE instruction is combined with paid employment that is directly related to classroom instruction. Students must register for both the CTE classroom course and Cooperative Education Work component during the same academic year. A student must complete a minimum of 135 hours in a work-based experience. In addition to the standards defined in the Cooperative Education Policies and Procedures Manual, the following standards must be followed.

**FASHION MERCHANDISING****MI212X0****1 Credit(s)**

Prerequisite: None

This course is designed to simulate a comprehensive experience of the business of fashion. The experience should bring alive the economics, distribution, promotion, and retail of fashion, and essential strategies of promoting and selling fashion. Upon completion of the course, students should be ready for the retail of fashion at the entry level of work or post-secondary education. English, mathematics, social studies, and technology are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Marketing Education (DECA); Career and Community Leaders of America (FCCLA)

**APPAREL AND TEXTILE PRODUCTION I****FA312X0****1 Credit(s)**

Prerequisite: None

In this course students are introduced to the apparel and textile industry in the area of design, textiles and apparel engineering. Emphasis is placed on students applying these design and engineering skills to create and produce apparel products. Art, literacy, mathematics, and science are reinforced.

\*For safety reasons, enrollment is not to exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No  
**Entrepreneurial:** Yes **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**APPAREL AND TEXTILE PRODUCTION II\*****FA322X0****2X0****1 Credit(s)**

Prerequisite: FA31 Apparel I

Students in this course will gain a deeper understanding of design principles, engineering, fabrication and global needs of an ever-changing apparel and textile industry. The course provides a major focus on textile design, textile science, product construction, global manufacturing, and the apparel/textile market while incorporating and scaffolding prerequisite concepts. Emphasis is placed on application of design and engineering skills used to create, produce, and prepare a product for market. Students will also gain the entrepreneurial skills, necessary for successful marketing and distribution of an apparel product. Art, literacy, mathematics, science, and social studies are reinforced throughout.

\*For safety reasons, enrollment is not to exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**APPAREL AND TEXTILE PRODUCTION II (HONORS)\* FA325X0 1 Credit(s)**

Prerequisite: FA31 Apparel I

Students in this course will gain a deeper understanding of design principles, engineering, fabrication and global needs of an ever-changing apparel and textile industry. The course provides a major focus on textile design, textile science, product construction, global manufacturing, and the apparel/textile market while incorporating and scaffolding prerequisite concepts. Emphasis is placed on application of design and engineering skills used to create, produce, and prepare a product for market. Students will also gain the entrepreneurial skills, necessary for successful marketing and distribution of an apparel product. Art, literacy, mathematics, science, and social studies are reinforced throughout.

\*For safety reasons, enrollment is not to exceed 20 in this course.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Family Career and Community Leaders of America (FCCLA)

**PROJECT MANAGEMENT I CS112X0 1 Credit(s)**

Prerequisite: None

This course will introduce students to the principles, concepts, and software applications used in the management of projects. Through project-based learning, students will understand how to use the framework of initiating, planning, executing, monitoring and controlling, and closing a project in authentic situations. The core concepts of scope, time, cost, and integration will be examined during this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA),FFA, Family Career and Community Leaders of America (FCCLA), Skill USA, HOSA, and Technology Student Association (TSA)

**ENTREPRENEURSHIP I ME112X0 1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In this course, students evaluate the concepts of going into business for themselves and working for or operating a small business. Emphasis is on the exploration of feasible ideas of products/services, research procedures, business financing, marketing strategies, and access to resources for starting a small business. Students develop components of a business plan and evaluate startup requirements. English language arts and social studies are reinforced. Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes



**Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes  
**School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP I (HONORS)\***

**ME115X0**

**1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance


In addition to the standard course requirements for Entrepreneurship I, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

## MARKETING

Pathways					Cluster Enhancement Courses
<b>Marketing Management</b>	BF10 Principles of Business & Finance MM51 Marketing	CS11 Project Management I MA52 Marketing Applications*	ME11 Entrepreneurship I* MU92 Strategic Marketing	CS95 CTE Advanced Studies	CC45 Career Management BD10 Multimedia & Webpage Design BM10 Microsoft Word & PowerPoint BM20 Microsoft Excel BB30 Business Law FA31 Apparel I BF05 Personal Finance MH42 Hospitality and Tourism CS96 CTE Apprenticeship CS97 CTE Internship
<b>Merchandising</b>	MI21 Fashion Merchandising	MA52 Marketing Applications*	ME11 Entrepreneurship I* MU92 Strategic Marketing	ME12 Entrepreneurship II	
<b>Professional Sales</b>	MM51 Marketing	MA52 Marketing Applications*	ME11 Entrepreneurship I* MU92 Strategic Marketing	CS95 CTE Advanced Studies	

### MARKETING MANAGEMENT

#### **PRINCIPLES OF BUSINESS AND FINANCE**

**BF102X0**

**1 Credit(s)**

Prerequisite: None

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes

Affiliated CTE Student Organization: DECA(an association for Marketing Education students), Future Business Leaders of America (FBLA), Career and Community Leaders of America (FCCLA)

#### **MARKETING**

**MM512X0**

**1 Credit(s)**

Prerequisite: None

In this course, students develop an understanding of the processes involved from the creation to the consumption of products/services. Students develop an understanding and skills in the areas of distribution, marketing-information management, market planning, pricing,

product/service management, promotion, and selling. Students develop an understanding of marketing functions applications and impact on business operations. Mathematics and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

**MARKETING COOPERATIVE** **MM516X0** **1 Credit(s)**  
Corequisite: Marketing MM51 in the same academic year

Cooperative education is a method of instruction where CTE instruction is combined with paid employment that is directly related to classroom instruction. Students must register for both the CTE classroom course and Cooperative Education Work component during the same academic year. A student must complete a minimum of 135 hours in a work-based experience. In addition to the standards defined in the Cooperative Education Policies and Procedures Manual, the following standards must be followed.

**PROJECT MANAGEMENT I** **CS112X0** **1 Credit(s)**  
Prerequisite: None

This course will introduce students to the principles, concepts, and software applications used in the management of projects. Through project-based learning, students will understand how to use the framework of initiating, planning, executing, monitoring and controlling, and closing a project in authentic situations. The core concepts of scope, time, cost, and integration will be examined during this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA),FFA, Family Career and Community Leaders of America (FCCLA), Skill USA, HOSA, and Technology Student Association (TSA)

**MARKETING APPLICATIONS\*** **MA522X0** **1 Credit(s)**  
Prerequisite: MM51 Marketing OR MI21 Fashion Merchandising

In this course, students will apply an understanding of marketing functions and impact of the functions on business decisions. Through problem solving and critical thinking, students will apply knowledge and skills in the areas of customer relations, economics, financial analysis, channel management, marketing-information management, marketing planning, products and services managements, and selling. Relative opportunities are available for students to sue technology to acquire and use marketing information. English, language arts, and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: Marketing Education (DECA)

**MARKETING APPLICATIONS\* (HONORS) MA525X0 1 Credit(s)**

Prerequisite: MM51 Marketing OR MI21 Fashion Merchandising

In addition to the standard course requirements for Marketing Management, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: Marketing Education (DECA)

**MARKETING APPLICATIONS COOPERATIVE MA526X0 1 Credit(s)**

Corequisite: MA52 Marketing Applications in the same academic year

Cooperative education is a method of instruction where CTE instruction is combined with paid employment that is directly related to classroom instruction. Students must register for both the CTE classroom course and Cooperative Education Work component during the same academic year. A student must complete a minimum of 135 hours in a work-based experience. In addition to the standards defined in the Cooperative Education Policies and Procedures Manual, the following standards must be followed.

**ENTREPRENEURSHIP I\* ME112X0 1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In this course, students evaluate the concepts of going into business for themselves and working for or operating a small business. Emphasis is on the exploration of feasible ideas of products/services, research procedures, business financing, marketing strategies, and access to resources for starting a small business. Students develop components of a business plan and evaluate startup requirements. English language arts and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP I (HONORS)\* ME115X0 1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In addition to the standard course requirements for Entrepreneurship I, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

### **STRATEGIC MARKETING**

**MU922X0**

**1 Credit(s)**

Prerequisite: None

This fast-paced course challenges students by combining into one course the concepts taught in the Marketing and Marketing Application courses. The curriculum, activities, and resources utilized in this course are written at the freshman college level. The Strategic Marketing course focuses on the impact of marketing on society, procedures used in buying behavior, procedures to manage marketing information, procedures to develop and manage products, pricing procedures, promotion, marketing channels, supply chain management, retail operations, and global marketing. English/language arts and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

### **STRATEGIC MARKETING (HONORS)**

**MU925X0**

**1 Credit(s)**

Prerequisite: None

In addition to the standard course requirements for Strategic Marketing, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

## MERCHANDISING and PROFESSIONAL SALES

**FASHION MERCHANDISING****MI212X0****1 Credit(s)**

Prerequisite: None

This course is designed to simulate a comprehensive experience of the business of fashion. The experience should bring alive the economics, distribution, promotion, and retail of fashion, and essential strategies of promoting and selling fashion. Upon completion of the course, students should be ready for the retail of fashion at the entry level of work or post-secondary education. English, mathematics, social studies, and technology are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Marketing Education (DECA); Career and Community Leaders of America (FCCLA)

**MARKETING APPLICATIONS\*****MA522X0****1 Credit(s)**

Prerequisite: MM51 Marketing OR MI21 Fashion Merchandising

In this course, students will apply an understanding of marketing functions and impact of the functions on business decisions. Through problem solving and critical thinking, students will apply knowledge and skills in the areas of customer relations, economics, financial analysis, channel management, marketing-information management, marketing planning, products and services managements, and selling. Relative opportunities are available for students to use technology to acquire and use marketing information. English, language arts, and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: Marketing Education (DECA)

**MARKETING APPLICATIONS\* (HONORS)****MA525X0****1 Credit(s)**

Prerequisite: MM51 Marketing OR MI21 Fashion Merchandising

In addition to the standard course requirements for Marketing Management, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: Marketing Education (DECA)

**MARKETING APPLICATIONS COOPERATIVE** **MA526X0** **1 Credit(s)**

Corequisite: MA52 Marketing Applications in the same academic year

Cooperative education is a method of instruction where CTE instruction is combined with paid employment that is directly related to classroom instruction. Students must register for both the CTE classroom course and Cooperative Education Work component during the same academic year. A student must complete a minimum of 135 hours in a work-based experience. In addition to the standards defined in the Cooperative Education Policies and Procedures Manual, the following standards must be followed.

**STRATEGIC MARKETING (HONORS)** **MU925X0** **1 Credit(s)**

Prerequisite: None

This fast-paced course challenges students by combining into one course the concepts taught in the Marketing and Marketing Application courses. The curriculum, activities, and resources utilized in this course are written at the freshman college level. The Strategic Marketing course focuses on the impact of marketing on society, procedures used in buying behavior, procedures to manage marketing information, procedures to develop and manage products, pricing procedures, promotion, marketing channels, supply chain management, retail operations, and global marketing. English/language arts and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

**ENTREPRENEURSHIP I\*** **ME112X0** **1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In this course, students evaluate the concepts of going into business for themselves and working for or operating a small business. Emphasis is on the exploration of feasible ideas of products/services, research procedures, business financing, marketing strategies, and access to resources for starting a small business. Students develop components of a business plan and evaluate startup requirements. English language arts and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP I (HONORS)\*** **ME115X0** **1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In addition to the standard course requirements for Entrepreneurship I, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

### **ENTREPRENEURSHIP II (HONORS)**

**ME125X0**

**1 Credit(s)**

Prerequisite: ME11 Entrepreneurship I

In this course students develop an understanding of pertinent decisions to be made after obtaining financing to open a small business. Students acquire in-depth understanding of business regulations, risks, management, and marketing. Students develop a small-business management handbook. English language arts and social studies are reinforced.


Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Concepts of Entrepreneurship & Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)



## STEM

Pathways	 <b>Science, Technology, Engineering &amp; Mathematics</b>				Cluster Enhancement Courses
<b>Engineering &amp; Technology</b>	TE11 Technology Engineering & Design	IC61 Drafting I	IV22 Drafting II – Engineering*	IV23 Drafting III - Engineering	CC45 Career Management BD10 Multimedia & Webpage Design BM10 Microsoft Word and PowerPoint BM20 Microsoft Excel AP41 Horticulture I AU71 Biotechnology & Agriscience Research I ME11 Entrepreneurship I BF10 Principles of Business & Finance BF05 Personal Finance CS96 CTE Apprenticeship CS97 CTE Internship
		TE12 Technological Design*	TE13 Engineering Design	CS95 CTE Advanced Studies	
<b>Science &amp; Mathematics</b>	TE11 Technology Engineering & Design	IC61 Drafting I	CS11 Project Management I	CS95 CTE Advanced Studies	
		TS21 Scientific & Technical Visualization I	TS22 Scientific & Technical Visualization II*		

### ENGINEERING & TECHNOLOGY

**TECHNOLOGY ENGINEERING AND DESIGN** **TE112X0** **1 Credit(s)**

Prerequisite: None

This course focus on the nature and core concepts of technology, engineering, and design. Through engaging activities and hands-on project-based activities, students are introduced to the following concepts: elements and principles of design, basic engineering, problem solving, and teaming. Students apply research and development skills and produce physical and virtual models. Activities are structured to integrate physical and social sciences, mathematics, English, language arts, and art.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**DRAFTING I** **IC612X0** **1 Credit(s)**

Prerequisite: None

This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas, concepts and trends found in the areas of architecture, manufacturing, engineering, science,

and mathematics, sketching and computer assisted design (CAD) skills and techniques. English language arts, mathematics, and science are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No  
**Service Learning:** No

Aligned Industry Credential: Yes Autodesk Auto CAD Certified User

Affiliated CTE Student Organization: SkillsUSA

**DRAFTING II – ENGINEERING\***

**IV222X0**

**1 Credit(s)**

Prerequisite: IC61 Drafting I

This course teaches the development of knowledge and advanced skills in Engineering Drafting and Design. An understanding of 3D CAD concepts and terms, and the use of 3D CAD software such as INVENTOR or SolidWorks, are essential to this course, and the required method of producing finished drawings. Topics include cover advanced levels of Engineering Drafting and Design, Career Opportunities, Problem Solving, Manufacturing Processes, Parametric- Solid Modeling, Dimensioning and Tolerancing, Working Drawings, and 3D modeling. English language arts and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No  
**Service Learning:** Yes

Aligned Industry Credential: Yes Autodesk Inventor Certified User or Certified SolidWorks Associate (CSWA)

Affiliated CTE Student Organization: SkillsUSA

**DRAFTING II – ENGINEERING\* (HONORS)**

**IV225X0**

**1 Credit(s)**

Prerequisite: IC61 Drafting I

In addition to the standard course requirements for Drafting II - Engineering, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** No  
**Service Learning:** Yes

Aligned Industry Credential: Yes Autodesk Inventor Certified User or Certified SolidWorks Associate (CSWA)

Affiliated CTE Student Organization: SkillsUSA

**DRAFTING III - ENGINEERING (HONORS)**

**IV235X0**

**1 Credit(s)**

Prerequisite: IV22 Drafting II- Engineering

This course teaches the development of knowledge and advanced skills in Engineering Drafting and Design. An understanding of 3D CAD concepts and terms, and the use of 3D CAD software such as INVENTOR or SolidWorks, are essential to this course, and the required method of producing finished drawings. Topics include cover advanced levels of Engineering Drafting and Design, Employment Requirements, Engineering Design Concepts

and Principles, Advanced Manufacturing Processes, Advanced Parametric-Solid Modeling, Geometric Dimensioning and Tolerancing, Work Drawings and Assemblies, 3D Modeling, Sheet Metal Parts, and Professional Portfolio. English language arts and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Autodesk Inventor Certified User or Certified SolidWorks Associate (CSWA)

Affiliated CTE Student Organization: SkillsUSA

**TECHNOLOGICAL DESIGN\*** **TE122X0** **1 Credit(s)**

Prerequisite: TE11 Technology Engineering and Design

This course continues to apply the skills, concepts, and principles of design. The design fields of graphics, industrial design, and architecture receive major emphasis. Engineering content and professional practices are presented through practical application. Working in design teams, student apply technology, science, and mathematics concepts and skills to solve engineering and design problems. Students research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics. Art, English, Language Arts, Mathematics and science are required.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**TECHNOLOGICAL DESIGN\* (HONORS)** **TE125X0** **1 Credit(s)**

Prerequisite: TE11 Technology Engineering and Design

In addition to the standard course requirements for Technological Design, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam associated with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**ENGINEERING DESIGN\*** **TE132X0** **1 Credit(s)**

Prerequisite: TE12 Technological Design

This course continues to apply the skills, concepts, and principles of engineering. Students explore various technological systems and engineering processes in related career fields. Topics include investigating technological system, design optimization, and problem solving. Students utilize CAD and physical and

virtual modeling concepts to construct, test, collect, and report data. Art, English language arts, mathematics and science are reinforced.

\*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No  
**Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes  
Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**ENGINEERING DESIGN\* (HONORS)** **TE135X0** **1 Credit(s)**  
Prerequisite: TE12 Technological Design

In addition to the standard course requirements for Engineering Design, this honors level course extends the standards course of study to a more challenging level for the student who highly motivated, able to work independently and has a history of high academic achievement. Students will be expected to take and pass the appropriate industry certification exam with the course, if available.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No  
**Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes  
Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**PROJECT MANAGEMENT I** **CS112X0** **1 Credit(s)**  
Prerequisite: None

This course will introduce students to the principles, concepts, and software applications used in the management of projects. Through project-based learning, students will understand how to use the framework of initiating, planning, executing, monitoring and controlling, and closing a project in authentic situations. The core concepts of scope, time, cost, and integration will be examined during this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA),FFA, Family Career and Community Leaders of America (FCCLA), Skill USA, HOSA, and Technology Student Association (TSA)

## SCIENCE & MATHEMATICS

**TECHNOLOGY ENGINEERING AND DESIGN** **TE112X0** **1 Credit(s)**  
Prerequisite: None

This course focus on the nature and core concepts of technology, engineering, and design. Through engaging activities and hands-on project-based activities, students are introduced to the following concepts: elements and principles of design, basic engineering, problem solving, and teaming. Students apply research and development skills and produce physical and virtual models. Activities are structured to integrate physical and social sciences, mathematics, English, language arts, and art.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**SCIENTIFIC AND TECHNICAL VISUALIZATION I**                      **TS212X0**                      **1 Credit(s)**

Prerequisite: None

This course introduces students to the use of complex graphic tools. Emphasis is placed on the principles, concepts, and use of complex graphic and visualization tools as applied to the study of science and technology. Students use complex 2D graphics, animation, editing, and image analysis tools to better understand, illustrate, explain, and present technical, mathematical, and/or scientific concepts and principles. Emphasis is placed on the use of computer-enhanced images to generate both conceptual and data-driven models, data-driven charts, and animations. Science, math, and visual design concepts are reinforced through the course. Activities are structures to integrate physical and social science, mathematics, English language arts, and art.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

**SCIENTIFIC AND TECHNICAL VISUALIZATION II\* (HONORS)**                      **TS225X0**                      **1 Credit(s)**

Prerequisite: TS21 Scientific and Technical Visualization I

This course provides students with advanced skills in the use of complex visualization tools for the study of science, technology, or mathematical concepts. Students design and develop increasingly complex data and concept-driven visualization models. Students use complex 2D and 3D graphics, animation, editing, and image analysis tools to better understand, illustrate, and explain concepts. Students present technical, mathematical, and or scientific concepts and principles. Activities are structured to integrate physical and social sciences, mathematics, English language arts, and art.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: Technology Student Association (TSA)

## TRANSPORTATION, DISTRIBUTION & LOGISTICS

Pathways	 <b>Transportation, Distribution &amp; Logistics</b>				Cluster Enhancement Courses
<b>Facility &amp; Mobile Equipment Maintenance</b>	IT11 Automotive Services Fundamentals	IT16 Automotive Service I	IT17 Automotive Service II*	IT18 Automotive Service III	CC45 Career Management BM10 Microsoft Word & PowerPoint BM20 Microsoft Excel AS31 Agricultural Mechanics I BF10 Principles of Business & Finance BF05 Personal Finance CS96 CTE Apprenticeship CS97 CTE Internship
<b>Logistics Planning &amp; Management Services</b>	MM51 Marketing	MA52 Marketing Applications*	ME11 Entrepreneurship I	MU92 Strategic Marketing	

### FACILITY & MOBILE EQUIPMENT MAINTENANCE

#### **AUTOMOTIVE SERVICES FUNDAMENTALS**

**IT112X0**

**1 Credit(s)**

Prerequisite: None

This course introduces automotive safety, basic automotive terminology, system & component identification, knowledge and introductory skills in hand tools, shop equipment, basic servicing, and use of service information. Also careers and various job opportunities in the automotive repair industry will be discussed. As part of the NATEF accreditation, topics are aligned to the Maintenance and Light Repair (MLR) requirements. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** No  
**Entrepreneurial:** No **Internship:** No **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes S/P2- Safety and Pollution Prevention, SP2\_ Mechanical and Pollution Prevention, SP2- Mechanical-Pollution Prevention

Affiliated CTE Student Organization: SkillsUSA

#### **AUTOMOTIVE SERVICE I**

**IT162X0**

**1 Credit(s)**

Prerequisite: IT11 Automotive Service Fundamentals

This course develops automotive knowledge and skills in performing scheduled automotive maintenance, servicing, and basic testing of brakes, electrical systems, drivetrain, engine, HVAC and steering & suspension systems, emphasizing hands-on experience. As part of the NATEF accreditation, topics are aligned to the Maintenance and Light Repair(MLR) requirements. English language arts are reinforced.

\*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: SkillsUSA

**AUTOMOTIVE SERVICE II\*** **IT172X0** **1 Credit(s)**  
Prerequisite: IT16 Automotive Service I

This course builds on the knowledge and skills introduced in Automotive Servicing I and develops advanced knowledge and skills in vehicle system repair and/or replacement of components in the brakes, electrical systems, drivetrain, engine, HVAC and steering & suspension systems, emphasizing hands-on experience. As part of the NATEF accreditation, topics are aligned to the Maintenance and Light Repair (MLR) requirements. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes ASE Student Certification-Maintenance and Light Repair

Affiliated CTE Student Organization: SkillsUSA

**AUTOMOTIVE SERVICE III** **IT182X0** **1 Credit(s)**  
Prerequisite: IT17 Automotive Service II

This course builds on the skills and knowledge introduced in Automotive Service I & II. Building advanced automotive skills and knowledge in vehicle servicing, testing, repair, and diagnosis of brakes, electrical systems, drivetrain, engine, HVAC and steering & suspension systems, while emphasizing hands-on experience. As part of the NATEF accreditation, topics are aligned to the Maintenance and Light Repair (MLR) requirements. English language arts and mathematics are reinforced.

\*Due to potentially hazardous processes and equipment a maximum enrollment of 20 is recommended.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes ASE Student Certification-Maintenance and Light Repair

Affiliated CTE Student Organization: SkillsUSA

## LOGISTICS PLANNING & MANAGEMENT SERVICES

**MARKETING** **MM512X0** **1 Credit(s)**  
Prerequisite: None

In this course, students develop an understanding of the processes involved from the creation to the consumption of products/services. Students develop an understanding and skills in the areas of distribution, marketing-information management, market planning, pricing,

product/service management, promotion, and selling. Students develop an understanding of marketing functions applications and impact on business operations. Mathematics and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

**MARKETING COOPERATIVE** **MM516X0** **1 Credit(s)**  
Corequisite: Marketing MM51 in the same academic year

Cooperative education is a method of instruction where CTE instruction is combined with paid employment that is directly related to classroom instruction. Students must register for both the CTE classroom course and Cooperative Education Work component during the same academic year. A student must complete a minimum of 135 hours in a work-based experience. In addition to the standards defined in the Cooperative Education Policies and Procedures Manual, the following standards must be followed.

**MARKETING APPLICATIONS\*** **MA522X0** **1 Credit(s)**  
Prerequisite: MM51 Marketing OR MI21 Fashion Merchandising

In this course, students will apply an understanding of marketing functions and impact of the functions on business decisions. Through problem solving and critical thinking, students will apply knowledge and skills in the areas of customer relations, economics, financial analysis, channel management, marketing-information management, marketing planning, products and services managements, and selling. Relative opportunities are available for students to sue technology to acquire and use marketing information. English, language arts, and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: Marketing Education (DECA)

**MARKETING APPLICATIONS\* (HONORS)** **MA525X0** **1 Credit(s)**  
Prerequisite: MM51 Marketing OR MI21 Fashion Merchandising

In addition to the standard course requirements for Marketing Management, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.



Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: Marketing Education (DECA)

**MARKETING APPLICATIONS COOPERATIVE MA526X0 1 Credit(s)**

Corequisite: MA52 Marketing Applications in the same academic year

Cooperative education is a method of instruction where CTE instruction is combined with paid employment that is directly related to classroom instruction. Students must register for both the CTE classroom course and Cooperative Education Work component during the same academic year. A student must complete a minimum of 135 hours in a work-based experience. In addition to the standards defined in the Cooperative Education Policies and Procedures Manual, the following standards must be followed.

**PROJECT MANAGEMENT I CS112X0 1 Credit(s)**

Prerequisite: None

This course will introduce students to the principles, concepts, and software applications used in the management of projects. Through project-based learning, students will understand how to use the framework of initiating, planning, executing, monitoring and controlling, and closing a project in authentic situations. The core concepts of scope, time, cost, and integration will be examined during this course.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA),FFA, Family Career and Community Leaders of America (FCCLA), Skill USA, HOSA, and Technology Student Association (TSA)

**ENTREPRENEURSHIP I ME112X0 1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In this course, students evaluate the concepts of going into business for themselves and working for or operating a small business. Emphasis is on the exploration of feasible ideas of products/services, research procedures, business financing, marketing strategies, and access to resources for starting a small business. Students develop components of a business plan and evaluate startup requirements. English language arts and social studies are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes  
**Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes  
**Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**ENTREPRENEURSHIP I (HONORS)**

**ME115X0**

**1 Credit(s)**

Prerequisite: MM51 Marketing OR BF05 Personal Finance OR BF10 Principles of Business and Finance

In addition to the standard course requirements for Entrepreneurship I, this Honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Venture Entrepreneurial Expedition

Affiliated CTE Student Organization: DECA(an association for Marketing Education students)Future Business Leaders of America (FBLA)

**STRATEGIC MARKETING (HONORS)**

**MU925X0**

**1 Credit(s)**

Prerequisite: None

This fast-paced course challenges students by combining into one course the concepts taught in the Marketing and Marketing Application courses. The curriculum, activities, and resources utilized in this course are written at the freshman college level. The Strategic Marketing course focuses on the impact of marketing on society, procedures used in buying behavior, procedures to manage marketing information, procedures to develop and manage products, pricing procedures, promotion, marketing channels, supply chain management, retail operations, and global marketing. English/language arts and mathematics are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: Yes Customer Service and Sales Certification, or Advance Customer Service and Sales Certification, Fundamentals Marketing Concepts, or Certified Guest Service Professional (CGSP)

Affiliated CTE Student Organization: An association for Marketing Education students (DECA)

## ENHANCEMENT COURSES for ALL CLUSTERS

**CAREER MANAGEMENT**

**CC452X0**

**1 Credit(s)**

Prerequisite: None

This course prepares students to locate, secure, keep, and change careers. Emphasis is placed on self-assessment of characteristics, interests, and values; education and career exploration; evaluation of career information and creation of a career plan. Based on the National Career Development Guidelines, skills learned

in this course include, but are not limited to communications, interpersonal skills, problem solving, personal management and teamwork. English language arts are reinforced.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** Yes **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** No **School Based Enterprises:** No **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization:

<b>CTE ADVANCED STUDIES</b>	<b>CS952X0</b>	<b>1 Credit(s)</b>
<b>CTE ADVANCED STUDIES (HONORS)**</b>	<b>CS955X0</b>	<b>1 Credit(s)</b>

Prerequisite: Two technical credits in one Career Cluster

This culminating course is for juniors and seniors who have earned two technical credits, one of which is a completer course, in one Career Cluster. The Advanced Studies course must augment the content of the completer course and prepare students for success in transitioning to postsecondary education and future careers. Students work under the guidance of a teacher with expertise in the content of the completer course in collaboration with community members, business representatives, and other school-based personnel. The four parts of the course include writing a research paper, producing a product, developing a portfolio, and delivering a presentation. Students demonstrate their abilities to use 21st century skills. Competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

Work Based Learning Opportunities: **Apprenticeship:** Yes **Industry Field Trips:** No **Cooperative Education:** Yes **Entrepreneurial:** Yes **Internship:** Yes **Job Shadowing:** Yes **Mentorships:** Yes **School Based Enterprises:** Yes **Service Learning:** Yes

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA (an association for Marketing Education students), Future Business Leaders of America (FBLA), FFA, Family, Career and Community Leaders of America (FCCLA), Health Occupations Students of America (HOSA), SkillsUSA, and Technology Student Assoc. (TSA)

<b>CTE INTERNSHIP</b>	<b>CS972X0</b>	<b>1 Credit(s)</b>
<b>CTE INTERNSHIP (HONORS) **</b>	<b>CS975X0</b>	<b>1 Credit(s)</b>

Prerequisite: None

A CTE Internship allows for additional development of career and technical competencies within a general career field. Internships allow students to observe and participate in daily operations, develop direct contact with job personnel, ask questions about particular careers, and perform certain job tasks. This activity is exploratory and allows the student to get hands-on experience in a number of related activities. The teacher, student, and the business community jointly plan the organization, implementation, and evaluation of an internship, regardless of whether it is an unpaid or paid internship.

Work Based Learning Opportunities: **Apprenticeship:** No **Industry Field Trips:** No **Cooperative Education:** No **Entrepreneurial:** No **Internship:** Yes **Job Shadowing:** No **Mentorships:** No **School Based Enterprises:** No **Service Learning:** No

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA (an association for Marketing Education students), Future Business Leaders of America (FBLA), FFA, Family, Career and Community Leaders of America (FCCLA), Health Occupations Students of America (HOSA), SkillsUSA, and Technology Student Assoc. (TSA)

**CTE APPRENTICESHIP**

**CS962X0**

**1 Credit(s)**

Prerequisite: Two technical credits in one Career Cluster

Students who participate in apprenticeships or pre-apprenticeships through the North Carolina Department of Commerce can also earn CTE credit while they earn hours and experience toward an adult apprenticeship leading to a completed journeyman certificate. Work Based Learning Opportunities: **Apprenticeship: Yes**  
**Industry Field Trips: Cooperative Education: No Entrepreneurial: No Internship: No Job Shadowing: No**  
**Mentorships: No School Based Enterprises: No Service Learning: No**

Aligned Industry Credential: No

Affiliated CTE Student Organization: DECA (an association for Marketing Education students), Future Business Leaders of America (FBLA), FFA, Family, Career and Community Leaders of America (FCCLA), Health Occupations Students of America (HOSA), SkillsUSA, and Technology Student Assoc. (TSA)