

Department of Career & Technical Education



Mission Statement

The mission of the District 86 CTE Department is to provide innovative and personalized learning experiences in a collaborative environment for students to achieve their goals in the real world.

Course Sequence information

COURSE TITLE	CREDIT	9	10	11	12
Digital Literacy 1	0.5	X	X	X	X
Digital Literacy 2	0.5	X	X	X	X
Introduction to Business (Earned Honors Credit)	1.0	X	X	X	X
Investment Planning	0.5		X	X	X
Accounting	1.0		X	X	X
Accounting Honors	1.0		X	X	X
Marketing	0.5		X	X	X
Sports Marketing	0.5		X	X	X
Business Law 1	0.5		X	X	X
Business Law 1 Honors	0.5		X	X	X
Business Law 2	0.5		X	X	X
Business Law 2 Honors	0.5		X	X	X
Business Management	0.5		X	X	X
Consumer Economics	0.5		X	X	X
Consumer Economics ELL	0.5	X	X	X	X
Tech Support Internship (TSI) (Can be repeated. Honors Level in Year 2 ,3. And 4)	1.0	X	X	X	X
Internship	0.5			X	X
Internship-Honors	0.5			X	X
Business Work Experience	1.0			X	X

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Business Education

Pathway

If you have an interest in pursuing Business as a post-secondary option, the following is a suggested pathway

	Accounting	Marketing	Finance	Business Management	Information Technology
Freshman	Intro to Business* Digital Literacy 1 & 2	Intro to Business* Digital Literacy 1 & 2	Intro to Business* Digital Literacy 1 & 2	Intro to Business* Digital Literacy 1 & 2	Intro to Business* Digital Literacy 1 & 2
Sophomore	Investment Planning & Business Management	Business Management & Digital Literacy 1 & 2	Investment Planning & Business Management	Business Management & Marketing	Business Management & Tech Support Internship^
Junior	Business Law 1^ & Business Law 2^	Marketing & Sports Marketing	Accounting^	Investment Planning & Business Law^	Marketing & Tech Support Internship^
Seniors	Accounting^	Internship^ Accounting^	Internship^ Accounting ^	Accounting^ Tech Support Internship^	Tech Support Internship^

*Indicates Earned Honors Credit Available to students

^ Indicates Honors Option available

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Course Information

Course and Materials Fees

<p><u>INTRODUCTION TO BUSINESS</u></p> <p>Course #BU1001/1002</p> <p>Credit: 1.0</p> <p>Level: 9-12</p>	<p>This course gives students a background in the basic operations of business and develops an understanding of the economic role of business in our society. Major areas of study include economics, banking, credit, insurance, budgeting, consumer protection, government, entrepreneurship and taxes. Skill is developed through a wide variety of activities including computer research, projects, and classroom activities.</p> <p>Students who pass both semesters will fulfill the state mandate for Consumer Education.</p> <p>This course is part of the Earned Honors Credit Pilot.</p>
<p>INVESTMENT PLANNING</p> <p>Course #: BU2103</p> <p>Credit: 0.5</p> <p>Level: 10-12</p>	<p>In this course students will study basic investment principles involving stocks, options, commodities, bonds, mutual funds, cryptocurrencies, and other relevant investment strategies. Students will also learn about tax information, effects of the economy on the market, government regulations of securities and on-line investing. Current issues as they relate to investing, will be discussed. Students will participate in a simulated stock market game by trading online.</p>
<p>ACCOUNTING</p> <p>Course #: BU3111/3112</p> <p>Credit: 1.0</p> <p>Level: 10-12</p>	<p>This course develops a basic understanding of double-entry accounting. The accounting cycle, accounting theory, financial reports and financial analysis are included. Online accounting work papers, spreadsheets and accounting software are used to apply all accounting concepts. This course is recommended for college-bound students planning a career in accounting, finance, management or marketing.</p>
<p>ACCOUNTING HONORS</p> <p>Course #: BU3111H/3112H</p> <p>Credit: 1.0</p> <p>Level: 10-12</p>	<p>This course will prepare students for the rigor of college accounting. Students will develop an understanding of double-entry accounting. Topics covered include the following: accounting cycle, accounting systems, internal controls, journals, receivables and payables, accruals and deferrals, inventory, fixed assets and depreciation, financial statement preparation and analysis, and taxes. A computerized accounting program will be utilized, as well as spreadsheets. The core material for this course is similar to Accounting; however, more topics are covered, the pace is accelerated and expectations are higher. This course is highly recommended for motivated students planning to enter a college business program.</p>

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<p>MARKETING Course #: BU2203</p> <p>Credit: 0.5 Level: 10-12</p>	<p>This course focuses on the activities necessary to market products, services, and ideas to consumers. Major topics include market segmentation, consumer behavior, marketing research, product planning, and advertising. Students will apply marketing concepts learned in class by researching, creating and advertising new products.</p>
<p>SPORTS MARKETING</p> <p>Course #: BU2303</p> <p>Credit: 0.5 Level: 10-12 Prerequisite: Marketing</p>	<p>This intermediate marketing course will introduce students to the exciting field of sports marketing and its role in society. Students will develop a thorough understanding of the marketing concepts and theories that apply to sports and sporting events. Course topics will include sponsorships, endorsements, licensing, event marketing and sports marketing plans. Students will plan, create, and assess sports marketing communication programs that include advertising, marketing, public relations and news media. Emerging issues in sports marketing will also be discussed. Students must complete Marketing prior to enrolling in this course.</p>
<p>BUSINESS LAW 1</p> <p>Course #: BU3103</p> <p>Credit: 0.5 Level: 10-12</p>	<p>This course introduces students to the legal system and the law as it applies to personal and business situations which may occur in their daily lives. It also examines the court system, torts, crimes, technology and the law, contracts, family law, wills and estates. Key elements of this course are case studies, mock trials and a field trip to the courts and jails. NCAA approved course</p>
<p>BUSINESS LAW 1 HONORS</p> <p>Course #: BU3103H</p> <p>Credit: 0.5 Level 10-12</p>	<p>The core material for this course is similar to Business Law 1; however, projects and assessments will involve more depth, complexity, and rigor. Expectations for this course are much higher and will require additional time outside of class. This course is highly recommended for motivated students planning to enter a college business program. NCAA approved course.</p>

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<p>BUSINESS LAW 2</p> <p>Course #: BU3203</p> <p>Credit: 0.5</p> <p>Level: 10-12</p> <p>Prerequisite: Business Law 1</p>	<p>This course examines the criminal justice system, the Supreme Court, bailments and real estate transactions, ethics and employment policies and contracts. Group discussions, case studies, guest speakers and a field trip will be utilized to present and examine these concepts. To develop a better understanding of the legal system, students will participate in a mock trial tournament throughout the semester. NCAA approved course</p>
<p>BUSINESS LAW 2 HONORS</p> <p>Course #: BU3203H</p> <p>Credit: 0.5</p> <p>Level: 10-12</p> <p>Prerequisite: Business Law 1</p>	<p>This course examines the criminal justice system, the Supreme Court, bailments and real estate transactions, ethics and employment policies and contracts. Group discussions, case studies, guest speakers and a field trip will be utilized to present and examine these concepts. To develop a better understanding of the legal system, students will participate in a mock trial tournament throughout the semester. Students must complete Business Law I prior to enrolling in this course. NCAA approved course</p>
<p>BUSINESS MANAGEMENT</p> <p>Course #: BU2403</p> <p>Credit: 0.5</p> <p>Level: 10-12</p>	<p>Business Management (Entrepreneurship) is a project-based class designed to help students explore and investigate the varied world of conceiving, planning, organizing, and managing a business. Business Management will help introduce students to the challenging, exciting, and constantly changing world of operating a small business. Throughout the semester, students will be introduced to theoretical, as well as practical applications as they relate to the world of business. The intent of the course is to inform students how to achieve optimum benefits from the limited resources available to small firms and how to plan for growth and succession in a business.</p>

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<p>CONSUMER ECONOMICS</p> <p>Course #: BU3303</p> <p>Credit: 0.5</p> <p>Level: 10-12</p>	<p>This course helps students to understand the consumer's role in a mixed economy. Students will learn about various topics that they will use their entire life. Topics of study include: money management, consumer rights and responsibilities, credit, purchasing of goods and services, making sound investment plans and preparing individual tax returns. Successful completion of this course fulfills the state mandate for Consumer Education.</p>
<p>INTERNSHIP</p> <p>Course #: BU4103</p> <p>Credit: 0.5</p> <p>Level: 11-12</p>	<p>This program is designed to provide students with an opportunity for career exploration in a field of their choice. Students will work with a mentor outside of the school day for 50-75 hours in their career field. It is suggested that students have their own placements, however, if assistance is needed finding a placement, students should contact an internship coordinator. Students will be expected to keep a detailed journal, write a reflection paper and discuss their experiences with a related class. Students will receive a Pass/Fail grade for this course. An interview is required in order to be accepted in the program.</p>
<p>INTERNSHIP HONORS</p> <p>Course #: 4103H</p> <p>Credit: 0.5</p> <p>Level: 11-12</p>	<p>This program is designed to provide students with an opportunity for career exploration in a field of their choice. Students will work with a mentor outside of the school day for 50-75 hours in their career field. Students at the honors level will need to find their own placements, however, if assistance is needed finding a placement, students should contact an internship coordinator. Students will be expected to keep a detailed journal, write a research paper, and discuss their experiences with a related class. An interview is required in order to be accepted in the program.</p> <p>Students will receive a weighted grade for this course.</p>

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<p>BUSINESS WORK EXPERIENCE (BWE)</p> <p>Course #: BU4001/4002</p> <p>Credit 1.0</p> <p>Level: 11-12</p>	<p>Business Work Experiences provides the student with paid business experience related to their career goals. Students are employed in local businesses from a minimum of 15 hours to a maximum of 25 hours per week for which they receive monetary compensation. A wide variety of experience is available in fields such as apparel and accessories, automotive, food distribution, food service, hotel and tourism, general merchandise retailing, and various office related careers, including banking, accounting, and administrative assistant positions. This work experience program prepares students for further study or a career in marketing, retailing, management, finance, accounting, or administrative office positions. Students are selected by application and interview with emphasis on factors including reliability, integrity, and career goal. It is the student's responsibility to make travel arrangements to and from the job.</p> <p>The course is scheduled during the 10th Period to enable students to arrive at their workplace on time.</p>
<p>TECH SUPPORT INTERNSHIP (TSI)</p> <p>Course #: BU3001/3002</p> <p>Credit: 1.0</p> <p>Level: 9-12</p>	<p>The Technology Support Internship (TSI) course is a hands-on study of technology integration in an educational context. Students will gain real-world technical and customer service experience by providing direct support to students in a 1:1 environment.</p> <p>Students will learn how to troubleshoot and/or repair hardware, software, and network problems while gaining experience with ticketing software, inventory management and related customer service workflows. The course also provides students with the opportunity to pursue an independent learning pathway and potential professional certifications in one of four areas: Application, Innovation, Design, and Entrepreneurship.</p>
<p>TECH SUPPORT INTERNSHIP HONORS (TSI)</p> <p>Course #: BU3001H/3002H</p> <p>Credit: 1.0</p> <p>Level: 10-12</p> <p>Prerequisite: TSI during a previous school year</p>	<p>The Technology Support Internship (TSI) Honors course is available for returning students who have successfully completed TSI in a previous school year and are interested in pursuing advanced career and resume-building opportunities in the field of IT or technology. Honors level students should expect to take a leadership role in the course including assisting with the training of new TSI interns, performing more complex repairs and the opportunity to complete advanced certifications</p>

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<p>DIGITAL LITERACY 1</p> <p>Course #: BU1103</p> <p>Credit: 0.5</p> <p>Level: 9-12</p>	<p>This course is an introduction to using an electronic device to be a good digital citizen as well as develop the ability to use technology responsibly. The curriculum is organized using an online management system to teach students how to become online learners. The evolving curriculum in this course matches the rapid changes of technology in the world. Upon completion of this course, students will be able to identify the benefits and risks of sharing online, explore the legal and ethical dimensions of respecting creative work, determine source reliability and understand why technology and their personal digital footprint are important forces in our society. Students will master the basics of Google Docs,s, Slides, Drawings, and Forms. Students will learn about appropriate and effective communication for a variety of purposes and audiences.</p> <p>Prerequisite: None.</p>
<p>DIGITAL LITERACY 2</p> <p>Course #: BU1203</p> <p>Credit: 0.5</p> <p>Level 9-12</p>	<p>In this one-semester project-based course, students will continue to expand their knowledge of digital technology. Students will master the advanced features of Google Docs,s, Drawings, and Forms by designing promotional materials and professional documents. Using the curriculum from Computer Science Discoveries, an introductory computer science course, students will create authentic artifacts and learn the basics of programming and coding. Students will also explore how technology supports business in the fields of Sports and Entertainment Marketing, Hospitality Management, Accounting and Finance. Students will become well versed in Excel. Students will design a website, record a podcast, create a blog, and develop videos on a topic of their choice.</p> <p>No Prerequisite: Digital Literacy 1 recommended</p>
<p>Pre-Vocational Training</p> <p>Course #: SE5001/SE5002</p> <p>Prereq: IEP team recommendation</p> <p>Level: 9, 10, 11, 12</p> <p>Credit: 0.5</p>	<p>The goal of this course is to provide students with an opportunity to engage in practical hands-on experience within the school building. Students will develop job responsibility, initiative, and positive employer-employee relationships. Emphasis will be placed on hands-on in school job training and entry level workplace skill development which may include: following a schedule, time management, efficiency, problem solving, responsibility, work etiquette, following directions and communicating with coworkers and supervisors.This course can be taken multiple times with teacher approval. Pass/Incomplete grades are issued for this course. Curriculum in this course is a modification of the grade level standards but is in alignment with the new Illinois Learning Standards.</p>

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<p>Vocational Training</p> <p>Course #: SE6001/SE6002</p> <p>Prereq: IEP team recommendation</p> <p>Level: 9, 10, 11, 12</p> <p>Credit: 0.5</p>	<p>The goal of this course is to provide students with an opportunity to engage in practical hands-on experience in their community. Students will develop job responsibility, initiative, and positive employer-employee relationships. Emphasis will be placed on hands-on job training and entry level workplace skill development which may include: following a schedule, time management, efficiency, problem solving, responsibility, work etiquette, following directions and communicating with coworkers and supervisors. Students are evaluated cooperatively by the employer and teacher on a quarterly basis. Pass/Fail grades are issued for this course. This course can be taken multiple times with teacher approval. Pass/Incomplete grades are issued for this course. Curriculum in this course is a modification of the grade level standards but is in alignment with the new Illinois Learning Standards.</p>
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Family & Consumer Science Course Sequence information

Areas of Interest	Course Offerings
Culinary	Exploring Family & Consumer Sciences Culinary 1 Culinary 2 Baking and Pastry Chef and Restaurant
Interior Design	Exploring Family & Consumer Sciences Interior Design and Housing*
Fashion	Exploring Family & Consumer Sciences Fashion Merchandising Clothing Construction 1 Clothing Construction 2 Clothing Construction Independent Study
Teaching & Education	Exploring Family & Consumer Sciences Child Care and Development Invitation to Teaching*
Family Living	Personal Relationships Single Survival(HC Only)

*Indicates Honors Option Available to students

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Course Information

Course and Materials Fees

<p>EXPLORING FAMILY & CONSUMER SCIENCES Course #: FC1001/1002</p> <p>Credit: 1.0 <i>(0.5 Consumer Education, 0.5 Elective Arts)</i></p>	<p>This survey class introduces the student to all areas of Family & Consumer Sciences: consumer economics, culinary, sewing, design and human development. Projects and practical hands-on applications actively involve the students. This course will prepare students for future semester courses in Family & Consumer Sciences. Successful completion of this course fulfills the ISBE's Consumer Education requirement for graduation.</p> <p>Successful completion of this course fulfills the ISBE's Consumer Education requirement for graduation. Students must complete the entire year to receive consumer education credit.</p>
<h2>CULINARY</h2>	
<p>CULINARY 1 Course #: FC1103</p> <p>Credit: 0.5 Level: 9-12</p>	<p>Culinary 1 is designed to teach basic food preparation skills utilizing various types of culinary equipment and a range of preparation and cooking techniques. The following areas of study are covered in this course: measuring, knife skills, cooking methods, nutrition and various culinary specific units. Lab periods provide practical experiences in time management, equipment use, food preparation skills and serving meals. While this course provides personal enrichment, it may also serve as a foundation for further training to culinary arts.</p> <p>Suggested follow-up courses: Culinary 2, Baking & Pastry, and/or Chef & Restaurant.</p>
<p>CULINARY 2 Course #: FC2003</p> <p>Credit: 0.5 Level: 9-12</p> <p>Prerequisite: Culinary 1</p>	<p>This course, a continuation of Culinary 1, provides training in advanced techniques of food preparation. Students prepare a variety of recipes, while enriching their personal culinary skills. Units of study include pasta, pastries, sauces and main dishes. This course serves as a foundation for further training in culinary arts.</p> <p>Suggested follow-up courses: Chef & Restaurant and/or Baking & Pastry.</p>

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<p>BAKING & PASTRY FC2223</p> <p>Credit: 0.5 Level: 9-12</p> <p>Prerequisite: Culinary 1</p>	<p>This course provides focused training in the culinary field of European baking techniques. Focus will be on ingredients, preparation methods and finishing techniques. Units will include sanitation, metric measuring, breads, pastries and display techniques. This course is designed for personal skill development as well as a base for further culinary training. Students are encouraged to take Culinary 2 prior to this course.</p> <p>Suggested follow-up course: Chef & Restaurant and/or Culinary 2</p>
<p>CHEF & RESTAURANT Course #: FC3003</p> <p>Credit: 0.5 Level: 10-12</p>	<p>This course is designed for students curious about hospitality related careers and/or careers in the culinary industry. Students will operate culinary businesses through various aspects of food service including front of the house and back of the house job tasks. They will apply culinary knowledge such as knife skills, cooking methods, and baking and pastry skills as they prepare, plate and serve gourmet meals in this fast paced, real world work environment. Activities include menu selection, recipe testing, cost analysis, table settings, meal preparation, meal service and commercial safety and sanitation techniques.</p> <p>Students are encouraged to take either Culinary 2 and/or Baking & Pastries prior to this course.</p>
<p>FOUNDATIONS CULINARY Course #: SE0023</p> <p>Credit: 0.5</p> <p>Prerequisite: IEP Team Recommendation</p> <p>Level 9, 10, 11, 12</p>	<p>This course explores foundational cooking skills and concepts that can be applied in daily life. An emphasis will be placed on safety, sanitation, reading a recipe, proper selection and use of culinary equipment, independent meal preparation and nutritionally sound food choices. Foundations of Cooking is designed to meet the needs of students with a variety of physical, cognitive, or social needs. Lab work will focus on organization and teamwork. In addition, the course offers a smaller class size to make appropriate individualized instruction. This course can be taken multiple times with teacher approval. Pass/Incomplete grades are issued for this course. Curriculum in this course is a modification of the grade level standards but is in alignment with the new Illinois Learning Standards.</p>

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Family Living	
<p>SINGLE SURVIVAL (HC Only) Course #: FC3103</p> <p>Credit: 0.5 Level: 11-12</p>	<p>Will you need to know how to find an apartment, evaluate job offers, balance a budget, and provide for your own needs to be successful after you graduate? Whether you are heading away to college or into the workforce, today's young adults need these skills more than ever! Brush up on your career development, money management, personal safety and security, nutrition, home improvement skills and more! Each unit covered addresses the needs of young adults to research and evaluate the choices they will be making as they leave high school.</p> <p>Suggested follow-up course: Personal Relationships.</p>
<p>PERSONAL RELATIONSHIPS Course #: FC3203</p> <p>Credit: 0.5 Level: 11-12</p>	<p>This course is designed for upperclassmen wanting to grow on an intrapersonal and interpersonal level as they begin young adulthood. The Personal Relationship course focuses on the application of sociology and psychology concepts to a students' personal life. Students will learn skills on how to make mature decisions, understand how healthy relationships evolve, and how to cope during stressful times. Areas of study include: personality development, family relationships, crisis in the family, communication skills, and future relationships and family. Areas of career interest for students include social work, counseling, education, health field and psychology.</p> <p>Suggested follow-up course: Single Survival (HC Only)</p>
<p>SOCIAL COMMUNICATION Course #:SE 1861/1862</p>	<p>This class is for students who struggle with social pragmatic language. The class focuses on explicitly teaching social and emotional vocabulary, problem solving, conversation skills, and other pertinent skills aimed at helping students communicate effectively and appropriately with others. The goal is for students to increase their ability to develop relationships, take another's perspective, increase problem solving capabilities, and understand how our body is connected to communication and personal relationships with others. This course is co-taught with related service providers. This course is a pass/incomplete course.</p>

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FASHION	
<p>CLOTHING CONSTRUCTION 1 Course #: FC1203</p> <p>Credit: 0.5 Level: 9-12</p>	<p>This course is for students interested in sewing for practical purposes, personal enjoyment and/or to develop skills to be used in careers related to clothing construction, fashion merchandising, design and retail. Students will complete individual projects. Garment construction projects will increase in difficulty as students attain skills through the use of various technologies. Sequencing of the course includes basic sewing machine techniques, fabric and pattern selection, interpreting pattern instructions, construction techniques (darts, zippers, hems, buttons, applying interfacing, etc.).</p> <p>Suggested follow-up courses: Clothing Construction 2 or Fashion Merchandising & Design.</p>
<p>CLOTHING CONSTRUCTION 2 Course #: FC1303</p> <p>Credit: 0.5 Level: 9-12 Prerequisite: Clothing Construction 1</p>	<p>This course focuses on advanced sewing techniques with various projects chosen by the student and approved by the instructor. Areas of study may include textile arts, tailoring, formalwear, serging techniques and fashion design. Each project incorporates new clothing construction skills based on student preferences and abilities. Suggested follow-up class: Fashion Merchandising & Design.</p> <p>Suggested follow-up courses: Fashion Merchandising & Design or Clothing Construction Independent Study.</p>
<p>CLOTHING CONSTRUCTION INDEPENDENT STUDY Course #: FC1213</p> <p>Credit: 0.5 Level 10-12</p> <p>Prerequisite: Clothing Construction 2</p>	<p>This course is a continuation of Clothing Construction 2 and focuses on advanced construction techniques through individually selected projects approved by the instructor. Students will be guided through various areas of study that may include repurposing a ready-to-wear garment, formal wear, original embroidery design, fully lined jacket or coat, and fashion design through draping on a dress form. Seniors who enroll in this course may choose to create a senior quilt for one of their projects. While this course provides personal enrichment, it may also serve as a foundation for further training in a fashion related field. This course may be repeated with subsequent projects that continually incorporate new design techniques and sewing construction skills.</p> <p>Suggested follow-up courses: Fashion Merchandising & Design or second enrollment in Clothing Construction Independent Study.</p>

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<p>FASHION MERCHANDISING & DESIGN Course #: FC3303</p> <p>Credit: 0.5 Level: 9-12</p>	<p>This course is designed to allow students to explore and understand the various aspects of the fashion industry. Areas of study include the evolution of fashion, fashion trends and design, advertising, merchandising, and retail functions. Creative projects involving fashion design/sketching and visual displays. This course serves as a foundation for further training in fashion related occupations, as well as provides opportunities for personal enrichment.</p> <p>Suggested follow-up course: Clothing Construction.</p>
<h2>INTERIOR DESIGN</h2>	
<p>INTERIOR DESIGN & HOUSING Course #: FC3403</p> <p>Credit: 0.5 Level: 10-12</p>	<p>This course is meant to introduce students to the area of residential designs, space planning and home decor. Students will learn how to identify housing styles and their details throughout American history. A hands-on creative approach will take place when the course content focuses on the elements and principles of design, allowing students to showcase their artistic and original decorative ideas on visual design boards. Students will spend a large portion of the class utilizing technology in the interior design fields by using computer aided drafting for projects and a cumulative student designed and decorated home. It is recommended that students have strong computer technology skills when enrolling in this course.</p>
<p>INTERIOR DESIGN & HOUSING HONORS Course #: FC3403H</p> <p>Credit: 0.5 Level: 10-12</p>	<p>The core material for this course is similar to Interior Design and Housing; however, projects and assessments will involve more depth, complexity, and rigor. Expectations for this course are college level and will require additional reading and research outside of class. This course is recommended for highly motivated students interested in interior design or related fields.</p>

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TEACHING

<p>CHILD CARE & DEVELOPMENT Course #: FC2333</p> <p>Credit: 0.5 Level: 10-12</p>	<p>This course is designed for students who enjoy working with, or plan to work with, children. Areas of study include family planning, pregnancy and childbirth, child development from newborn through early childhood, and preparing learning activities for our preschool practicum. Students will teach and observe children in our Preschool Lab as an integral part of the program. This course helps prepare students for careers in child-related fields, including teaching.</p> <p>Suggested follow-up course: Invitation to Teaching.</p>
<p>INVITATION TO TEACHING Course #: FC4003</p> <p>Credit 1.0 (one semester -two class periods) Level: 12</p>	<p>This course offers a teaching internship, enabling students to work under the supervision of certified preschool, elementary and middle school staff. Once placed, the students will spend four days each week at their assigned schools to assist, observe and teach young children. Teaching responsibilities include journaling, observing, creating a visual display, as well as creating and teaching lessons. Classroom study is focused on related issues in education including meeting the needs of a diverse student population, classroom management technology within the classroom, and current topics in education. Highly recommended for anyone pursuing a career working with children in any capacity.</p> <p>Acceptance into the program is based on application, staff feedback, academic standing, attendance and demonstration of character. Students who have previously completed Child Care & Development will be given preference. Applications will be available through your Guidance Counselor prior to registration. Course may be repeated both semesters.</p> <p>Suggested Prerequisite: Child Care & Development.</p>
<p>INVITATION TO TEACHING HONORS Course #: FC4003H</p> <p>Credit 1.0 (one semester- two class periods) Level: 12</p>	<p>The core curriculum for this course is similar to Invitation to Teach Course 6481/6482; however, projects and assessments will involve more depth, complexity, and rigor. Expectations for this course are college level and will require additional time outside of class. This course is recommended for highly motivated students interested in education or related fields.</p> <p>Acceptance into the program is based on application, staff feedback, academic standing, attendance and demonstration of character. Students who have previously completed Child Care & Development will be given preference. Applications will be available through your Guidance Counselor prior to registration. Course may be repeated both semesters.</p>

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<p>FOUNDATIONS OF COOKING AIDE Course #: FC1111/1112</p> <p>Credit 0.5</p>	<p>The Foundations Cooking Aide position is offered to sophomores, juniors, and seniors who are interested in working with students with a variety of physical, cognitive, and social needs. As an aide the students serve as role models in social norms and appropriate lab behavior.</p> <p>Acceptance into the program is based on application, academic standing, attendance and demonstration of character. Application may be picked up in the Family and Consumer Sciences Office prior to registration with counselors. Prerequisite: Exploring Family & Consumer Sciences or Culinary 1, application, and department chair approval. Priority will be given to those students interested in a career in education.</p>
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Department of Technology Education Course Sequence information

Hinsdale Township District 86 Technology Education Program

	STEM Pathway	Architecture & Construction Pathway	Graphic Communications & Information Technology Pathway
Beginner Course Courses: 0.5 Credits	Pre-Engineering 1*** & Pre-Engineering 2***	Woods 1	Graphic Communications 1** & Digital Video Production
Intermediate Course Courses: 1.0 Credits	Engineering and Manufacturing***	Woods 2	Graphic Communications 2*
Advanced Level Course Courses: 1.0 Credits	Architecture & Design*	Architecture & Design*	
Capstone Course Courses: 1.0 Credits	Engineering Capstone*	Woods Capstone	Graphic Communications Capstone*

*Indicates Honors Option available to students

**Indicates Dual Credit available to students

***Indicates Honors Option & Dual Credit available to students

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Course Information

[Course and Materials Fees](#)

ENGINEERING & MANUFACTURING PROGRAM	
PRE-ENGINEERING 1 Course #: TE1003 Credit: 0.5 Level: 9-12	<p>This introductory course to computer aided design covers practical drafting and problem-solving skills. Most work will be done on the computers using AutoCAD by Autodesk through the introduction of two and three-dimensional problems. Some manual sketching will be introduced during the drawing process. NCAA approved course</p> <p>This course may also run as a Dual Credit class with Moraine Valley Community College with the possibility of 4 hours of college credit.</p>
PRE-ENGINEERING 1 HONORS Course #: TE1003H Credit: 0.5 Level 9-12	<p>Pre-Engineering 1 w/honors option is recommended for the highly motivated student, especially those interested in pursuing a career in the field of Engineering. This course to computer aided design covers practical drafting and problem-solving skills. Students will be introduced to industry standard Autodesk products for two and three-dimensional problems. It is a hands-on course, which covers information on a basic level to understand the concepts and commands necessary to create, edit, and plot drawings. NCAA approved course</p> <p>This course may also run as a Dual Credit class with Moraine Valley Community College with the possibility of 4 hours of college credit.</p>
PRE-ENGINEERING 2 Course #: TE1103 Credit: 0.5 Level: 9-12 Prerequisites: Pre-Engineering 1.	<p>This follow-up course to Pre-Engineering 1 will enable students to develop more advanced techniques in computer aided design through three-dimensional modeling problems and more advanced two-dimensional drawing and dimensioning. The course will further explore Science, Technology, Engineering and Mathematics (S.T.E.M.) related content and provide the student with a strong background in STEM principles. AutoCAD will be used for most of this course. NCAA approved course</p> <p>This course may also run as a Dual Credit class with Moraine Valley Community College with the possibility of 3 hours of college credit.</p>

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<p>PRE-ENGINEERING 2 HONORS Course #: 1103H</p> <p>Credit: 0.5 Level: 9-12</p> <p>Prerequisites: Pre-Engineering 1</p>	<p>Pre-Engineering 2 w/honors option enables a student to develop more advanced techniques in computer aided design through an in-depth study of two- and three-dimensional modeling, drawing and dimensioning problems. Students will develop a presentation of an engineering field they are interested in. NCAA approved course</p> <p>This course may also run as a Dual Credit class with Moraine Valley Community College with the possibility of 3 hours of college credit</p>
<p><u>ENGINEERING & MANUFACTURING</u> Course #: TE2101/2102</p> <p>Credit: 1.0 Level: 10-12</p> <p>Prerequisite: Pre-Engineering 2</p>	<p>The goal of the Engineering & Manufacturing course is to expand the student's knowledge in the following areas: computer software usage, manufacturing processes, engineering and design, application of acquired knowledge in making production drawings, and career opportunities in a variety of engineering fields. This course continues exploration of Science, Technology, Engineering and Mathematics (S.T.E.M.)-related content. Engineering design projects will enable students to make the necessary connections between the STEM disciplines and the world around them. Students in this class will be expected to work at an accelerated pace on individual projects and some small group work. Students will be instructed on proper techniques using Autodesk Inventor to create 3D models. Using Inventor, students will create a model race car that demonstrates the power of this software package. A series of problems which require model construction is also part of the curriculum, including the use of 3D printing technology (rapid prototyping). Robotics topics will also be covered in this course. During the semester, each student will create an individual portfolio of work.</p> <p>This course may also run as a Dual Credit class with Moraine Valley Community College with the possibility of a minimum of 3 hours of college credit.</p>

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<p><u>ENGINEERING & MANUFACTURING HONORS</u> Course #: TE2101H/2102H</p> <p>Credit: 1.0 Level: 10-12</p> <p>Prerequisites: Pre-Engineering 2</p>	<p>The core material for this course is similar to Engineering & Design course; however, projects and assessments will involve more depth, complexity, and rigor. Expectations for this course are much higher and will require additional time outside of class. This course is highly recommended for motivated students planning to enter a college engineering program.</p> <p>This course may also run as a Dual Credit class with Moraine Valley Community College with the possibility of a minimum of 3 hours of college credit.</p>
<p>ARCHITECTURE & DESIGN Course #: TE3101/3102</p> <p>Credit: 1.0 Level: 10-12</p> <p>Prerequisite: Pre-Engineering 2</p>	<p>Students will learn how to design and draw a complete set of architectural drawings necessary to construct a residential home. The student will apply Science, Technology, Engineering and Mathematics (S.T.E.M.) concepts to design and print a professional set of blueprints. Room planning, flow patterns, design concepts, floor plans, construction details, elevations, and presentation drawings will be completed during the first semester. The second half of the course will be dedicated to modeling their modified first semester designs. Information related to home construction, home building, building cost, permits and home buying will be explored and discussed.</p>
<p>ARCHITECTURE & DESIGN HONORS Course #: TE 3101H/3102H</p> <p>Level: 10-12 Credit: 1.0</p> <p>Prerequisite: Pre-Engineering 2</p>	<p>The core material for this course utilizes the content of Architecture & Design ; however, projects and assessments will involve more depth, complexity, and rigor. Expectations for this course are much higher and will require additional time outside of class. This course is highly recommended for motivated students planning to enter a college architectural engineering or construction management program.</p>

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<p>ENGINEERING CAPSTONE Course #: TE4101/4102</p> <p>Credit: 1.0 Level: 12</p> <p>Prerequisite: Engineering & Manufacturing <u>OR</u> Architecture & Design.</p>	<p>This is the Capstone Course in the Engineering & Architecture program that will help prepare students for college and career readiness. Students will have additional challenges as they are introduced to several 3D modeling software programs. Students will be required to use the skills learned in both their engineering and architectural graphics courses as they make the transition from 2D drawings to 3D. Science, Technology, Engineering and Mathematics (S.T.E.M.) concepts will be integrated through the use of various project-based activities. Students will explore industry specific software programs, while developing 3D models and animating them. Students will use 3D digitizer technology for reverse engineering applications to accurately reproduce parts. They will also use 3D print technology (rapid prototyping) to generate models for visual inspection and functional testing. More in depth robotic principles will be applied to solve problems with a programmable robot. An electronic portfolio will record all work completed during the school year. Students will leave the class with various 3D models and projects they produced. NCAA approved course</p>
<p>ENGINEERING CAPSTONE HONORS Course #: TE4101H/4102H</p> <p>Credit: 1.0 Level: 12</p> <p>Prerequisite: Engineering & Manufacturing <u>OR</u> Architecture & Design</p>	<p>The core material for this course is similar to course, however, projects and assessments will involve more depth, complexity, and rigor. Expectations for this course are much higher and will require additional time outside of class. This course is highly recommended for motivated students planning to enter a college engineering program.</p>

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GRAPHIC COMMUNICATIONS PROGRAM

<p>GRAPHIC COMMUNICATIONS 1</p> <p>Course #: TE1303</p> <p>Credit: 0.5 Level: 9-12</p>	<p>Graphic Communications 1 will be devoted to an in-depth study of graphic design, photo editing, digital illustrations, and screen print technology. Projects include photo retouching, designing and developing animated graphic ads, and creating advertising brochures using Adobe software such as Illustrator, InDesign, and Photoshop. This course is highly recommended for students interested in college majors related to Entrepreneurship, Business, Marketing, Graphic Design, and Graphic Communications.</p> <p>This course may also run as a Dual Credit class with Moraine Valley Community College with the possibility of a minimum of 3 hours of college credit tuition free.</p>
<p>GRAPHIC COMMUNICATIONS 2 HONORS Course #: TE2301H/2302H</p> <p>Credit: 1.0 Level: 10-12</p> <p>Prerequisite: Graphic Communications I.</p>	<p>This course is an in-depth study of Adobe Photoshop, Illustrator, and InDesign building upon skills learned in Graphic Communications 1. Students will create designs appropriate for digital printing applications. Students will also have an opportunity to learn Game Design skill and theory. Employment and career opportunities in the field of graphic design will be discussed.</p>
<p>GRAPHIC COMMUNICATIONS CAPSTONE TE2401/2402</p> <p>Credit: 1.0 Prerequisite: Graphic Communications 1 & 2</p>	<p>This student-centered Capstone Course is designed for those who wish to apply the skills learned in their study of Graphic Communications more deeply to real world projects. Students will focus on several areas of personal interest and develop real world products in a client-project manager arrangement. The outcome of this course is a comprehensive electronic portfolio for use in many college and university admission processes.</p>
<p>DIGITAL VIDEO PRODUCTION Course #: TE1223</p> <p>Level: 9-12 Credit: 0.5</p>	<p>Digital Video Production (DVP) will give students an introduction to the basic techniques used to create professional short films and other digital media using their own smartphones. Classwork will include viewing and discussion examples as well as practical instruction in video production from concept through shooting and editing. Class sessions will include training on smart phone camera and gimbal operation, and digital editing using industry standard software. Students will learn through practical projects and will direct and produce their own audiovisual products.</p>

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WOODS PROGRAM

<p>WOODS 1 Course #: TE1203</p> <p>Credit: 0.5 Level: 9-12</p>	<p>This one semester, introductory course to modern woodworking will allow students to help plan, design, and create at least three assigned wood projects using various types of wood and incorporating student choice. In addition, students will develop and practice safety in a wood shop laboratory.</p> <p>Prerequisite: None.</p>
<p>WOODS 2 Course #: TE2201/2202</p> <p>Credit: 1.0 Level: 10-12</p> <p>Prerequisite: Woods 1</p>	<p>This follow-up course to Woods 1 will allow students to further their knowledge of woodworking by planning and building more advanced projects while utilizing CNC programming to create projects. In addition, students will use more technical set-ups to build projects that are assigned while also allowing for student choice.</p>
<p>WOODS CAPSTONE Course #: TE3201/3202</p> <p>Level: 11-12 Credit: 1.0</p> <p>Prerequisite: Woods 2</p>	<p>This is an advanced woodworking course utilizing all of the information from Woods I and II. Students will design, plan and build a project of their own, consistent with their abilities, interest, and time. In addition, students will have the opportunity to design and build projects for Hinsdale Central High School. A fee will be applied as needed depending on projects built.</p>