

Milford High School Profile

School of Agriscience

Major	Animal Science and Management	Food Science	Plant Systems
Summary Of Major	The program of study that explores: animal production and management, physical restraint and handling, conducting health exams, evaluation of behaviour, principles of genetics and reproduction, animal selection through evaluation, anatomy and physiology, animal nutrition, basic veterinary practices, global food systems, ethics of food animal production, and current agricultural issues in order to foster an understanding of the steps involved in producing and marketing products for consumers. Students practice decision making and research skills through classroom instruction, laboratory activities, and practical experiences.	This program of study offers career exploration concerning the handling and processing of food, food packaging and labelling, food safety, and issues in food science. Students will receive hands-on instruction that includes dairy product testing, identification of retail cuts of meat, as well as fish processing and more. A special emphasis is placed upon workforce opportunities in the region through partners such as Purdue. Students will have opportunities for internships and hands on experience in these industries.	The Plant Science program of study is a three (3) course Career & Technical Education (CTE) instructional program designed to provide students with knowledge of plant growth and reproduction, as well as the use of plants for food, fibre, and ornamental purposes. The program prepares students for a variety of careers in: agronomy, ornamental horticulture, biotechnology, forestry, soil science, and turf management.
Future Careers	<ul style="list-style-type: none"> • Veterinarian • Horse Breeder • Zoologist • Animal Rescue • Farmer • Wildlife Manager • Veterinary Tech 	<ul style="list-style-type: none"> • Food Scientist • Quality Assurance Expert • Food Prod. Specialist • Food Safety Inspector • Biotechnologist 	<ul style="list-style-type: none"> • Plant Breeder • Soil/Water Specialist • Plant Pathologist • Greenhouse Manager • Agronomist
Student Organization	FFA	FFA	FFA
College Credit			
DSU	AGRI 206: Intro to Animal Science	FYS 100: Intro to Food Science	AGRI 219: General Horticulture
UD	ANFS 166: Independent Study, Animal and Food	ANFS 166: Independent Study, Animal and Food	ANFS 166: Independent Study, Animal and Food

Milford High School Profile

School of Allied Health

Major	Allied Health	Public and Community Health	Sports and Health Science
Summary Of Major	The Allied Health program of study is a Career & Technical Education (CTE) instructional program that engages students in open-ended problem solving where they study topics such as medical terminology and human anatomy and physiology. Students will acquire important skills necessary for healthcare professionals such as medical mathematics, communication, safety practices, legal responsibilities, and teamwork. In addition, students will develop technical skills such as performing a wound culture, measuring vital signs, collecting a throat culture, and performing a strep test.	This program engages students in a comprehensive approach to health while learning about social determinants such as poverty, discrimination, and inadequate access to resources. Students will learn to view health from medical, behavioural, social, and environmental perspectives. Additionally, students will discover methods for eliminating health inequities and bringing awareness to public policy to determine the distribution of resources needed for healthy communities.	A unique combination of coursework gives students the necessary experience to major in the competitive field of sports medicine. Designed to give students a background in human anatomy, fitness, basic medical knowledge, students who complete this major will have the skills and experience to pursue a variety of college majors ranging from medicine to sports management to athletic training.
Future Careers	<ul style="list-style-type: none"> • Respiratory Therapist • Nurse • Dental Hygienist • Medical Lab Technician • Nursing Assistant • Radiologist 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • Athletic Trainer • Athletic Director • Physical Therapist • Sports Psychologist • Fitness Marketing Specialist
Student Organization	HOSA	HOSA	<ul style="list-style-type: none"> • Participate on Athletic Team • Volunteer as Sports Manager • Varsity Club
College Credit			
DTCC	HLS 100: Intro to Health Careers BIO 100: Medical Terminology BIO 120: Anatomy & Physiology (D/E)	BIO 100: Medical Terminology	HLS 100: Intro to Health Careers BIO 100: Medical Terminology
WILMU		HLT321 - Personal Wellness (D/E)	

Milford High School Profile

School of Art and Design

Major	Digital Communication	Performing Arts	Visual Arts
Summary Of Major	<p>This program of study requires students to apply the skills and tools of digital designers used in graphic design, pixel-based imagery manipulation, HTML coding, digital video production, vector image manipulation, digital illustration, and digital publishing. Students utilize strategies to solve open-ended problems while learning how to apply technical skills, creative skills, industry knowledge, documentation techniques, and processes using modern, industry-leading technology and software. Client based learning experiences and industry-mentored projects introduce students to a wide array of related careers in public relations, marketing, web and digital communications and printing.</p>	<p>The performing arts major is designed for students interested in pursuing a career in music and performance. Students may choose from a series of courses including band, choir, music theory, and drama. Students may elect to concentrate in one of these areas or take a unique combination customized to their interest. Instrumental and choral students rehearse daily in class in preparation for musical performances throughout the year both in school and within the community. Students in this major are required to participate in the Kelly Tyrrell Gill Night of the Arts as well as various other performances.</p>	<p>This program of study allows students to explore a variety of 2D and 3D art media while focusing on the elements of art and principles of design. Students will study artworks and genres in the context of culture and history. Students will be encouraged to develop a portfolio over the course of this major for application to art and design schools. Critical thinking skills will be used during art creation, research, critiques and discussion. Students will create, discuss, and write about artworks. Students are highly encouraged to participate in Art Club and submit work for the Kelly Tyrrell Gill Night of the Arts as well as local, state regional, and national art contests and art exhibitions.</p>
Future Careers	<ul style="list-style-type: none"> • Broadcaster • Journalist • Photographer • Graphic Designer • Audio/Video Producer • Digital Media Designer 	<ul style="list-style-type: none"> • Actor • Musician • Singer • Music Teacher • Composer 	<ul style="list-style-type: none"> • Art Educator • Potter • Painter • Artist • Curator • Sculptor
Student Organization	<ul style="list-style-type: none"> • ESports • Robotics Club 	<ul style="list-style-type: none"> • Drama Club 	<ul style="list-style-type: none"> • Art Club
College Credit			
	<p>Students may obtain college credit through Dual Enrollment and/or scores of 3 or higher on Advanced Placement exams.</p>	<p>Students may obtain college credit through Dual Enrollment and/or scores of 3 or higher on Advanced Placement exams.</p>	<p>Students may obtain college credit through Dual Enrollment and/or scores of 3 or higher on Advanced Placement exams.</p>

Milford High School Profile

School of Business and Finance

Major	Academy of Finance	Business Management	Marketing
Summary Of Major	The Academy of Finance (AOF) major engages students with the world of financial services by focusing on banking and credit, financial planning, accounting, and insurance. Students gain career knowledge through a series of work-based learning activities that are conducted in school and outside of the classroom, and a summer internship.	This program of study offers career exploration concerning the handling and processing of food, food packaging and labelling, food safety, and issues in food science. Students will receive hands-on instruction that includes dairy product testing, identification of retail cuts of meat, as well as fish processing and more. A special emphasis is placed upon workforce opportunities in the region through partners such as Purdue. Students will have opportunities for internships and hands on experience in these industries.	Students will apply knowledge and skills learned to develop business and marketing plans, research and analyse companies, prepare trend and product analysis, set a marketing budget, evaluate the 4 P's of companies, and use the SWOT analysis. Career planning and development will also be covered in this major. Simulations incorporating knowledge acquired will be used relative to business marketing management, including distribution placement and product management.
Future Careers	<ul style="list-style-type: none"> • Accountant • Loan Officer • Payroll Specialist • Tax Preparer • Finance Analyst • Insurance Specialist 	<ul style="list-style-type: none"> • Sales Manager • Account Specialist • Product Specialist • Administrative Assistant • Entrepreneur 	<ul style="list-style-type: none"> • Marketing Specialist • Marketing Researcher • Small Business Owner • Sales Associate • Sales Manager • Entrepreneur
Student Organization	BPA	BPA	DECA
College Credit			
DTCC	BUS 101: Intro to Business SSC 130: Where's My Money SSC 131: Are You Credit Worthy? SSC 132: Planning for the Beach ACC 101: Accounting I (D/E)	BUS 101: Intro to Business ACC 101: Accounting I (D/E)	
GBC		ITG 148: Desktop App. MS Word ITG 149: Desktop App. MS Excel	
WILMU		BBM 102: Intro to Business BCS 206: Computer App. for Business	

Milford High School Profile

School of Education and Career Studies

Major	College Scholar	Jobs for DE Graduates	K-12 Teacher Academy
Summary Of Major	<p>College Scholar majors are encouraged to take the AP or Dual Enrollment level of courses in each of the discipline areas. Students will have the opportunity to take college credit bearing courses all four years of their high school career. When applying to top universities, strength of schedule is a key component of admissions. These students will have some of the strongest available at any high school in the country. AP Courses often have more rigorous levels of work than traditional high school courses and require a significant time commitment.</p>	<p>The Jobs for Delaware Graduates (JDG) major is designed to help students reach academic and career goals. The curriculum includes 16 school-to-work transition competencies per year. Each competency delivers an impactful job skill or soft skill that students will need to be successful in employment. The experiential learning experiences will prepare students for a business, teaching, or marketing major in college. This is an excellent major for students who want to go directly into the workforce after graduation.</p>	<p>The Delaware K-12 Teacher Academy engages students in developing a realistic understanding of teaching while exploring the importance and impact of teachers. Students will acquire the knowledge and skills needed to sustain their interest in the profession and cultivate the skills needed to be successful educators, thus creating a pipeline of high-quality students transitioning to the teaching profession. Students will understand the rigors of a career in education and participate in classroom and field experiences relevant to pursuing a degree in education.</p>
Future Careers		<ul style="list-style-type: none"> • Organization and Time Management • Career Attire • Cover Letter, Resumes • Interviews • Business Etiquette • Employee Rights • Financial Planning 	<ul style="list-style-type: none"> • K-12 Teacher • Paraprofessional • School Counsellor • School Psychologist • School Administrator • Librarian
Student Organization	NHS	DCA	Educators Rising
College Credit			
	<p>Students may obtain college credit through Dual Enrollment and/or scores of 3 or higher on Advanced Placement exams.</p>	<p>Students may obtain college credit through Dual Enrollment and/or scores of 3 or higher on Advanced Placement exams.</p>	<p>Students may obtain college credit through Dual Enrollment and/or scores of 3 or higher on Advanced Placement exams.</p>

Milford High School Profile

School of Modern Studies

Major	Humanities	Spanish
Summary Of Major	This major is geared toward the student who is interested in studying law, geography, economics, governmental policy, journalism, literature, writing, or philosophy at the university level. Additional courses that make up this major will have an emphasis on research and writing.	This major is for students who value the skill of learning another language and plan to travel abroad or use Spanish in our own community to further their college or career plans. Students will have the opportunity to gain a high level of proficiency in Spanish which they can apply at any career or use to enter high level coursework in college.
Future Careers	<ul style="list-style-type: none"> • Historian • Professor • Lawyer • Paralegal • Writer • Researcher • International Relations 	<ul style="list-style-type: none"> • Spanish Teacher • Interpreter/Translator • Foreign Diplomat
Student Organization	<ul style="list-style-type: none"> • Drama Club • International Club • Journalism • Student Government Association 	<ul style="list-style-type: none"> • International Club • Sociedad Honoraria Hispánica
College Credit		
	Students may obtain college credit through Dual Enrollment and/or scores of 3 or higher on Advanced Placement exams.	Students may obtain college credit through Dual Enrollment and/or scores of 3 or higher on Advanced Placement exams.

Milford High School Profile

School of Science, Technology, Engineering, and Math

Major	Computer Science	Engineering
Summary Of Major	This major allows students to focus on the conceptual ideas of computing to understand why certain tools or languages might be utilized to solve particular problems. Topics such as interface design, limits of computers, and societal and ethical issues are explored. Students are exposed to problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing.	This major is designed to expose students to high levels of math and a broad base of scientific principles. This content will be applied to practical situations asking students to solve engineering problems in the real world. Students majoring in Pre-Engineering should be prepared to advance to Calculus or Precalculus by senior year. This major can be customized to fit the area of interest of the student. Environmental, Civil, Aeronautical and Biomedical are all areas students in this major can explore. This major prepares students to attend a four-year university to study Engineering.
Future Careers	<ul style="list-style-type: none"> • Computer Scientist • Network Specialist • Software Application • Designer • Systems Engineer • Web Developer • Database Administrator 	<ul style="list-style-type: none"> • Mechanical Engineer • Electrical Engineer • Civil Engineer • Biomedical Engineer • City Planner • Architect • Environmental Scientist
Student Organization	<ul style="list-style-type: none"> • TSA 	<ul style="list-style-type: none"> • E Sports • Robotics Club • TSA • Odyssey of the Mind
College Credit		
DSU	CSCI 110: Computational Thinking I CSCI 120: Elements of Computer Programming I	
DTCC	CIS 120: Introduction to Programming	
UD	CISC101: Principles of Computing	
WILMU	SEC100: Introduction to Computer Hardware and Operation SEC 290: Introduction to Programming with Python Computer Science Elective	