WORK BASED LEARNING

Internships, Work Study & Student Service Learning

Do you want to find out what it is like to work at **TV Studio** or in a **Courtroom**, or with pets in a **Veterinarian office**? Do you want to get "real-life" experience?

Work Based Learning programs allow juniors and seniors to experience a hands-on career placement during the conventional school day.

Career Research & Development Program of Study
- Introduction to Career Research and Development $
- Advanced Career Development, Preparation & Transition) $
- 2 credits Work Study (Students work for pay at business of their choice)
- Youth Apprenticeship
- Work 450 hours with approved business partner.

Internship - Honors Course
Students explore career opportunities in approved business. The student will gain real-world professional experience.

You have **63%** higher chances of graduating with a job if you have an **internship** on your resume.

Student Service Learning
In School Community Service experience.

$ Meets graduation Financial Literacy Requirement

Middletown High School
Career & Technology Education
200 Schoolhouse Drive
Middletown, MD 21769

Department Chair: Alisa Gibson
(Alisa.Gibson@fcps.org)

MIDDLETOWN HIGH SCHOOL
CAREER & TECHNOLOGY EDUCATION

PROGRAMS OF STUDY

- Animal Science
- Agriculture Mechanics
- Horticulture (Plants)
- Child Development
- Business Administrative Services
- Business Management
- Career Research & Development
- Computer and Information Sciences
- Finance and Accounting
- Wood Design and Applications

"A tradition of excellence, knowledge, creativity, strength and leadership."

AGRICULTURE

Courses We Offer:

Animal Science
- Introduction to Ag $*
- Pre-Vet Small Animal Care*
- Pre-Vet Large Animal Care
- Horse Care & Management or Forestry and Wildlife

Horticulture
- Introduction to Ag*
- Horticulture 1*
- Horticulture 2*
- Horticulture 3

Agriculture Mechanics
- Engine and Power Tech 1*
- Engine and Power Tech 2*
- Wood and Metal Structures*
- Advanced Mechanics*

Agriculture Trans Ed
- Agriculture Work Experience*
- Independent Study*

Courses with an asterisk are required for Program of Study.

Introduction to Ag *: This one-semester course examines plant science, animal science, biotechnology, agribusiness, natural resources, etc.

Pre-Vet Classes: Areas of study include the history of animal domestication, an overview of the small animal industry, animal rights and welfare, careers in small animal care, nutrition and digestive systems, handling and restraining small animals, and an in-depth look at a range of small animals that may include dogs, cats, rabbits, hamsters, gerbils, rats, mice, guinea pigs, chinchillas, ferrets, amphibians and fish.

Horticulture Classes: Students raise plants for themselves and for sale in the school's greenhouse. They learn how to reproduce plants and make flower arrangements.

Agriculture Mechanics Classes: This course is an intensive study of the theory, operation, maintenance, and repair of two- and four-cycle small and multi-cylinder engines. Students work on engines, applying academic skills to real practice.

We hope to see you in an MHS Agriculture course next year! To continue your FFA membership you MUST take an agriculture class each year.

Questions: Contact Ms. Shriner (Sarah.Shriner@fcps.org) or Ms. Seiser (Sara.Seiser@fcps.org)

FAMILY AND CONSUMER SCIENCE

The Child Development Program of Study (**CD 1,2,3,4**) includes the Financial Literacy graduation requirement for graduation and the Child Development classes (**CD 1,2,3**) allow the students to also earn a 90 Hour State of MD Child Care Certification; which enables students to be a senior staff person in a preschool or childcare setting once they turn the age of 19. The **Independent Living** class also meets the financial literacy graduation requirement.

If a student enjoys children or plans to work with them in any capacity, **Child Development** classes are for them. We run a preschool four days a week for three and four-year-olds from our community, giving the students valuable hands-on experience with the Knee High Knights.

Independent Living prepares students for living on their own including: the exploration of careers, financial literacy, stress management, housing options, cooking with an emphasis on food and nutrition as some of the units. Most importantly, everything learned in this course will be utilized in the future!

Courses We Offer:
- Child Development 1, 2, 3, 4 $
- Child Development Internship
- Independent Living $

Child Development Program of Study
- Child Development 1
- Child Development 2
- Child Development 3
- Child Development 4, Internship or Work Study

90 Hour State of MD Child Care Certification minimum requirements:
1. A or B in Child Development 1, 2 & 3
2. 80% attendance and other course assessment/portfolio requirements

Family and Consumer Science College Credit Options Minimum Grade: B

FCPS Course Title	FCPS Course #	FCC Course #	FCC Course Title
Child Dev. 1	362040		
Child Dev. 2	363041	ED100 (3 credits)	Child Dev. and Behavior
Child Dev. 3	363061	ECD 104 (3 credits)	Activities for Children

Questions: Contact Ms. Martin (Gretchen.Martin@fcps.org)

COMPUTER SCIENCE

Computer science drives innovation throughout the US economy, and computer science education is thriving at Middletown High School.

Courses We Offer:

349910 Foundations of Computer Science
Students are introduced to a broad base of computer science topics including big data and algorithms, website development (in HTML & CSS), programming in Python, and cybersecurity. **(This course satisfies the one-credit graduation requirement for Technology.)**
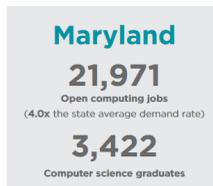
342012 AP Computer Science Principles
Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs in JavaScript as they explore concepts like creativity, abstraction, data and information, algorithms, and the Internet. **(Prerequisite: Foundations of Computer Science)**

343011 AP Computer Science A (Java)
This course is a computer programming class. Students learn object-oriented programming methodology with an emphasis on problem solving, algorithm development, abstraction and data structures. Students learn to program in Java in preparation for the AP Computer Science A test. **(Prerequisite: AP Computer Science Principles)**

Demand for computer science professionals in the State of Maryland is high.

In 2018, Maryland had 22,596 open computing jobs (4.0 times the average demand rate in Maryland). The average salary for a computing occupation in MD is $105,129, which is significantly higher than the average salary in the state ($58,770). Maryland had only 3,422 computer science graduates in 2017.

Maryland

21,971
Open computing jobs
(4.0x the state average demand rate)

3,422
Computer science graduates

Questions: Contact Ms. Greger (Jennifer.Greger@fcps.org)

MEDIA AND COMMUNICATIONS

Middletown High School has a strong and diverse Media and Communications program. We offer a variety of classes that are constantly evolving in an attempt to include the latest trends, innovations, and technology in print journalism, broadcast journalism, video editing, publications design and layout, news photography and other media platforms. Check out what we have to offer and see what's right for you!

Would you like to make   videos or be a part of a live news broadcast? If you enjoy shooting and editing videos, being in the studio (either in front of the camera or behind the scenes), interviewing interesting people in the Middletown community, covering the news that's important to MHS, or making Podcasts, then **394090 Digital Communications Technology** is right for you! Join the fun as our team works to both inform and entertain the students of MHS.

Do you enjoy running to where the news is happening while everyone else is running away? If you want to learn how to be a journalist or even just improve your writing and/or video skills, while getting the opportunity to meet interesting people and cover news that's important to MHS, then **134220 Journalism** is right for you! It could be the start of finding your career… or it could be just a good way to be a part of MHS.

Do you love taking photos? Designing pages? Meeting new people? **292050 Publications**, also known as **Yearbook** sounds right for you. Make sure that next year's yearbook has all the coverage and people in it that you think deserve to be in it! You can help decide how people will remember MHS 20, 50, or even 100 years from now! And it's a great way to meet new people and make new friends!
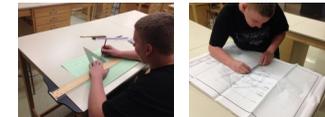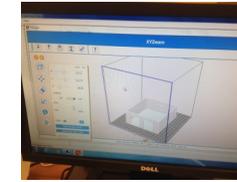
Questions: Contact Mr. Kady (Noah.Kady@fcps.org)

ARCHITECTURAL ENGINEERING & DESIGN 1 & 2

Want to learn what it takes to construct homes and buildings?

Students will study architectural design principles and use Computer-Aided Design (CAD) Software to convey their designs. Students will draw objects in 2-D and 3-D and then produce designs on the 3-D printer.
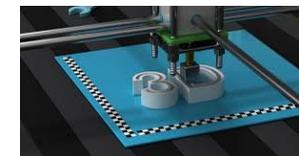

WOOD, DESIGN, AND APPLICATIONS (WDA)

Be prepared for careers in manufacturing, architecture, design, management and similar industries.

- Use Woodworking hand tools & power tools, CNC routers, laser engravers & 3 D printers.
- Develop hands-on fabrication skills as well as computer aided design (CAD) skills
- Use CAD to plan, design, and create architectural drawings and manufacturing products.

Program of Study (Complete 4-course series)

496120 WDA 1
496220 WDA 2
496321 WDA 3
496421 WDA 4

Questions: Contact Ms. Gibson(Alisa.Gibson@fcps.org)

BUSINESS EDUCATION

Business Education prepares you to succeed in the workforce! In today's rapidly growing and changing economy, you will have the skills to cope not only with the complexities of the business world but the practical necessities of saving and investing, handling consumer and credit issues, and operating a business. The information contained within the business education curriculum is not only valuable for all students, but also is critical for success after high school. All students need to have a general understanding of how the American economy operates and the role business plays in the economic wellbeing of our society.

Courses We Offer:

Course	Section #
Accounting I	332040
Accounting II (H)	333041
Introduction to Business	331010
Management & Entrepreneurship	333090
ACCT 101 **DE** (Principle of Accounting) **NEW**	330002

Course	Section #
Microsoft Certification Training I	335111
Microsoft Certification Training II (H)	335121
Microsoft Certification Training III (H)	335131
BGMT 103 **DE** (Intro to Business)	330001
CIS 101 **DE** (Info. Systems & Tech.)	330006

H (HONORS) DE (DUAL ENROLLMENT)
Graduation Completer Programs

Business Administration

Required Courses
Introduction to Business **$ OR** (BGMT 103 DE *$)
Accounting I *
Microsoft Certification Training I *$
Microsoft Certification Training II (H) * OR (CIS 101 DE *$)

Business Management

Required Courses
Introduction to Business **$ OR** (BGMT 103 DE *$)
Accounting I *
Management & Entrepreneurship $
CIS 101 Dual Enrollment *$

*Provides *COLLEGE CREDIT* through FCC Dual Enrollment or Articulation Agreement
$ Satisfies the *FINANCIAL LITERACY* graduation requirement

Finance & Accounting

Required Courses
Introduction to Business **$ OR** (BGMT 103 DE*$)
Accounting I *
Accounting II (H) * OR (ACCT 101 DE*)
Management & Entrepreneurship

MHS Students have the opportunity to earn MOS certification in Word, Excel, Access, and PowerPoint.

Questions: Contact Mr. Roark(Edward.Roark@fcps.org) or Ms. Roberts (Katie.Roberts@fcps.org)