



# **James Wood High School and Millbrook High School Course Registration Class of 2027**

# School Counselors

## James Wood High School

- **Mr. Arthur - Director (10th - 12th Grade)**
  - **A - B**
- **Ms. Seabright (10th - 12th Grade)**
  - **C - Je**
- **Mrs. Zubi (10th - 12th Grade)**
  - **Ji - Ra**
- **Mrs. Dawson (10th - 12th Grade)**
  - **Re - Z**
- **Ms. Carson (All 9th Graders)**
  - **A - Z**

## Millbrook High School

- **Mrs. Mullins - (9th - 12th Grade)**
  - **A - Da**
- **Mrs. Unger - Director (9th - 12th Grade)**
  - **De - F**
- **Mrs. Snowden - (9th - 12th Grade)**
  - **G - Man**
- **Mr. Cusick - (9th - 12th Grade)**
  - **Mar - Ri**
- **Ms. Robinson - (9th - 12th Grade)**
  - **Ro - Z**

# Types of Diplomas

## Advanced Studies Diploma

- 4 English Credits
- 4 Math Credits
- 4 Science Credits (3 different Science disciplines)
  - Disciplines are Earth Sciences, Biology, Chemistry, and Physics
- 4 Social Studies Credits
- 3 years of a World Language or 2 years of 2 World Languages
- 2 Physical Education/Health Credits (PE/Health I & PE/Health II)
- 1 Economics & Personal Finance Credit
- 1 Fine Art or Career & Technical Education (CTE) Credit
- 3 Elective Credits (at least 2 sequential electives)

**26 Total Credits**

## Standard Diploma

- 4 English Credits
- 3 Math Credits
- 3 Science Credits (2 different Science disciplines)
  - Disciplines are Earth Sciences, Biology, Chemistry, and Physics
- 4 Social Studies Credits
- 2 Physical Education/Health Credits (PE/Health I & PE/Health II)
- 1 Economics & Personal Finance Credit
- 1 Fine Art or Career & Technical Education (CTE) Credit
- 4 Elective Credits (at least 2 sequential electives)

**22 Total Credits**

# Additional Graduation Requirements

- Complete one of the following: [Advanced Placement \(AP\) course](#), [Honors course](#), [Dual Enrollment course](#), OR [CTE credential](#)
- Complete a Virtual Course - requirement is met through Economics/Personal Finance course
- Training in emergency first aid, CPR, and the use of AED - requirement is met through Health II/Driver's Education course
- Demonstration of the 5 C's - students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship.

# Course Descriptions

Access the 2023-2024 Course Descriptions on the James Wood High School or Millbrook High School website.

- Go to <https://www.frederickcountyschoolsva.net/mhs>
- Click on Parents & Students
- Select Academics
- Select Course Descriptions
- Select [2023-24 High School Course Descriptions](#)

# Selecting Course Requests in Tyler 360

- Log into your Tyler 360 account.
- Select the **Course Requests** link under **School Life.**
- Select 7 **primary course requests** and 2 **alternate elective course requests.**

# 9th Grade Requests - Required Courses

## ➤ **English** - *Select 1*

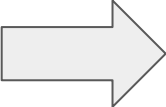
- English 9 **OR**
- Honors English 9

## ➤ **Social Studies** - *Select 1*

- World History/Geography I **OR**
- Honors World History/Geography I

# 9th Grade Requests - Required Courses

➤ **Math** - *Select 1*

Math III  Algebra I

Algebra I  Geometry or Honors Geometry

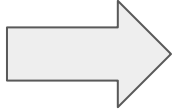
Geometry  Algebra II or Honors Algebra II



# 9th Grade Requests - Required Courses

## ➤ Science - *Select 1*

Standard/Advanced Diploma  Environmental Science

Advanced Studies Diploma  Biology I or  
Honors Biology I

**Honors Biology I requires the completion of a Science Fair project.**

# 9th Grade Requests - Required Courses

- PE and Health - Both courses need to be selected.
- Health I - *Select*
- PE - *Select 1*
  - PE I OR
  - PE I Strength Concentration (**JWHS only**)

# 9th Grade Requests - Electives

## Electives - *Select 2*

### Primary Requests

World Language or Elective

Elective

### Alternates

Elective

Elective

1. Choose Primary Requests, then click SAVE.
2. Choose Alternate Requests, then click SAVE again.

# Electives - World Language

- French I and II
- Latin I, II, and III
- Spanish I, II, III, Honors Spanish IV
- Spanish for Fluent Speakers I and II

**World Language is an academic elective. A solid grade in English 8 is suggested. It is required for an Advanced Diploma, NOT a Standard Diploma.**

# Electives - Agriculture

## Introduction to Plant Systems

- Landscape Design
- Turf grass
- Flower arranging
- Greenhouse production

## Introduction to Animal Systems

- Care and management of large animals
- Reproduction and nutrition of specific species
- Marketing of food animals

# Electives - Agriculture

## ➤ Applied Agriculture Concepts

- Production, processing, preparation, and preservation of meats, fruits, and vegetables.
- Food handling and safety parameters
- Soils for gardening and establishing lawns
- carpentry , electricity, plumbing, masonry, metal working, project design, planning and landscaping
- Practical learning and leadership experiences will be stressed in all aspects of this course.

# Electives - Business and Information Technology

## Computer Information Systems I (CIS I)

- Introduction to Windows environment through the use of Microsoft Word, Excel, PowerPoint, and Access.

## Cybersecurity Fundamentals

- Cybersecurity ethics, computer networks, cyber threats, and vulnerabilities
- Personal security, computer security, and internet/mobile security
- Cybersecurity careers

# Electives - Business and Information Technology

## Design, Multimedia and Web Technologies

- Using various applications, students will develop and incorporate multimedia elements into Websites, video games and animations. Typical course topics are HTML 5 & CSS, Adobe Photoshop, Gamemaker Studio and Scratch. This course is a good introduction to computer science fundamentals. Students can also participate in student organization activities and gain knowledge needed for various industry Certification tests.



# Electives - Marketing Education

## **Principles of Business and Marketing (JWHS only)**

- Introduction to entrepreneurship, human resources, marketing strategies, communication, interpersonal relationships, and budgeting

## **Entrepreneurship Education**

- Introduction to creating, owning, and launching a business

# Electives - Family and Consumer Science

## Independent Living

- Food safety/sanitation
- Nutrition and cooking (2 quarters)
- Career exploration
- Personal finance/budgeting
- Clothing care (sewing project)
- Interior design
- Renting vs buying a home

## Introduction to Teaching

- Fosters students' interest, understanding, and appreciation of the teaching profession
- Introduction to careers in education
- Exploration of topics such as child development, safe and health environments for children, and developmentally appropriate practice that supports child development

# Electives - Technology Education

- **Technical Drawing and Design**
  - Students learn the fundamentals of drafting, 3D modeling, model making, and architecture
- **Communication Systems (Graphic Introduction)**
  - Introduction to graphic design, multimedia, visual and digital imaging
- **Electronics Systems I**
  - Study theory and design of electronics, including analog and digital
- **Materials and Processes Technology**
  - STEM foundations class; production and assembly

# Electives - Art and Music

## ➤ **Art I**

- Topics include drawing, painting, ceramics, elements of paint and design, printmaking, and mixed media

## ➤ **Band**

- Concert/Marching Band (extracurricular and offered after school), Symphonic/Marching Band, Instrumental Ensemble, and Jazz Band (offered during Zero Period)

## ➤ **Choir**

- Mixed Chorus, Treble Ensemble, Concert Choir, Chamber Ensemble, and Tenor/Bass Ensemble

# Additional Electives

## ➤ Education for Employment I (EFE I) (JWHS only)

- This course is open for students who require individualized support and assistance in order to acquire employability skills.

## ➤ AP Computer Science Principles

- A computer science course that focuses not only on programming but computer science in ALL fields (ethics, cybersecurity, technology & impact on society, digital information, marketing, the internet, binary number systems, programming and app development). Students learn to program and reflect on impacts through writing and visualizations.

**This course is a college-level course that requires students to be able to complete work independently outside of the classroom.** It is recommended that students have completed at least Algebra I, and preferably Geometry, before taking this course.

## ➤ AP Computer Science A (JWHS only)

- Topics include programming methodology, algorithms, and data structures
- Opportunity to take the AP Computer Science A Exam

# Procedures for Making Changes to Course Requests

- A course request verification form will be emailed to your parents in March.
- Please wait to make changes until you receive the course request verification form in the mail.
- Make any necessary course changes on the verification form and return it to the JWHS or MHS School Counseling Office. Your school counselor will then make the changes in Tyler SIS.

Please reach out to your school counselor with any questions!

