**OHMMHS Course Schedule**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 9th | 1: PE2: English3: Math4: Biology5: Spanish 1 or French 1 6: Health |

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|  |  |  |  |  |  |  |
|  | Algebra |  |  |  | **Math Class Progression** |  |
|  | ↓ |  |  |  |  |  |
|  | Geometry | → | Algebra 2 |  |  |  |
|  |  | ↘ | ↓ | ↘ | Statistics or |  |
|  |  |  | Honors Advanced Math | → | AP Statistics or |  |
|  |  |  | ↓ | ↗ | AP Computer Science A |  |
|  |  |  | AP Calculus |  |  |  |
|  |  |  |  |  |  |  |

 |
| Choose: | **BIOMEDICAL SCIENCES PATHWAY** | **PUBLIC HEALTH PATHWAY** |
| 10th |  1: World History or AP World History2: English3: Math4: Chemistry5: Spanish 2 or French 26: **Principles of Biomedical Sciences**  | 1: World History or AP World History2: English3: Math4: Chemistry or Physics or AP Physics5: Spanish 2 or French 26: PE |
| 11th | 1: US History or AP US History2: English or AP English3: Math4: Physics or AP Science5: PE6: **Medical Interventions**  | 1: US History or AP US History2: English or AP English3: Math4: Chemistry or Physics or AP Science5: **ELECTIVE**\*6: **ELECTIVE**\*  |
| 12th | 1: Government & Economics or AP Gov/Econ2: English or AP Literature3: Math 4: Physiology or AP Science or **ELECTIVE**5: Visual/Performing Arts6: **Biomedical Innovations** | 1: Government & Economics or AP Gov/Econ2: English or AP Literature3: Math4: Chemistry or Physics or Physiology or AP Science5: **ELECTIVE**\* 6: **ELECTIVE**\*  |

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| **ELECTIVES** |
|  | **Visual/Performing Arts:***\*You must include at least* *one from the list below** Art
* Guitar
* Theater Foundations

 ↘ ● Theater Ensemble | **AP Sciences:*** AP Biology
* AP Chemistry
* AP Physics
* AP Environmental Science
* AP Principles of Computer Science
 | **Other Electives:*** AP Psychology
* AP Spanish
* French 3 or AP French
* LA Trade Tech College Class
* Speech
* Academic Decathlon
* Leadership
* Service
 |

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| **What’s the same?** | **What’s the difference?** |
| * 4 years of English
* 4 years of Social Studies
* 4 years of Math
* 1 year of Visual/Performing Arts
* 2 years of Language
* 2 years of PE
 | **Biomedical Sciences Pathway*** 3 years of science
* 3 years of biomedical science
* **1 extra elective slot**
* Maximum\* 8 AP classes
 | **Public Health Pathway*** 4 years of science
* 10th gr. choice of physical science
* **3 extra elective slots**
* Maximum\* 12 AP classes
 |
| \*Assuming Algebra in 9th grade and you don’t take classes outside of the normal school day |

**All 3 Biomedical Electives are project and lab based classes focusing on the following:**

|  |  |
| --- | --- |
| * Biomedical science careers
* Interrelationship between body systems and health/disease
* Experimental design
* Laboratory skills and safety
* Data analysis
 | * Technical writing
* Clinical Skills
* Equipment and Software Proficiencies
* Professional Skills
* Course Knowledge/Topics
 |

**10th grade: Principles of Biomedical Sciences**

Students learn basic lab skills and lab safety. This class follows the death of a fictitious patient named Anna Garcia, who has been found deceased in her home after a concerned neighbor calls 911.

* Crime scene investigation (Forensics)
* Autopsy and Cause of Death
* Diabetes
* Sickle Cell Anemia
* Heart Disease
* Infectious Disease
* Post Mortem

**11th grade: Medical Interventions**

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail.

* Infectious diseases
* New forms of medicine and medical devices
* Genetic engineering
* Cancer genetics, diagnostics, and treatment
* Organ transplant

**12th grade: Biomedical Innovations**

Through scientific missions, students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution.

* Emergency room design
* Scientific research
* Design and marketing
* Environmental health and contamination
* Public health planning and policy