**OHMMHS Course Schedule**

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| 9th | 1: PE  2: English  3: Math  4: Biology  5: Spanish 1 or French 1  6: Health | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  | |  | 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 History  2: English  3: Math  4: Chemistry  5: Spanish 2 or French 2  6: **Principles of Biomedical Sciences** | | 1: World History or AP World History  2: English  3: Math  4: Chemistry or Physics or AP Physics  5: Spanish 2 or French 2  6: PE |
| 11th | 1: US History or AP US History  2: English or AP English  3: Math  4: Physics or AP Science  5: PE  6: **Medical Interventions** | | 1: US History or AP US History  2: English or AP English  3: Math  4: Chemistry or Physics or AP Science  5: **ELECTIVE**\*  6: **ELECTIVE**\* |
| 12th | 1: Government & Economics or AP Gov/Econ  2: English or AP Literature  3: Math  4: Physiology or AP Science or **ELECTIVE**  5: Visual/Performing Arts  6: **Biomedical Innovations** | | 1: Government & Economics or AP Gov/Econ  2: English or AP Literature  3: Math  4: Chemistry or Physics or Physiology or AP Science  5: **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:**

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| * 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