

INNOVATION CONCENTRATION

The Innovation Concentration Program is designed to provide students interested in pursuing STEM in college and/or as a career with an immersive foundational experience at the high school level.

Innovation Students will gain real-life STEM experience through internships and research in addition to our rigorous STEM courses offered sophomore to senior year. Upon graduation, our Innovation Students will be well-positioned for success at both the college level and ready for future pursuits.

PROGRAM REQUIREMENTS

ALL YEARS

- Maintain a minimum general average of 92 for the remainder of their time at GMA.
- Course Requirements: Physics, Calculus, and three of the following courses:
 - AP Computer Science Principles, AP Calculus, AP Calculus AB, AP Calculus BC, AP Chemistry, AP Biology, Honors Engineering, Advanced Engineering, Applied Computer Science and Robotics, AP Computer Science A*, Statistics, AP Statistics
- Maintain active participation in The Invention and Innovation Team.
- Regular meetings with the Program Chair regarding senior year research project progress

SOPHOMORE YEAR

- Written research project proposal by the end of sophomore year to advance in the program.
- Research internship opportunities to support your senior research project.

JUNIOR YEAR

- Complete an outside of school STEM related internship (before the fall of senior year).+
- Write an essay about the internship experience and how it will help complete your research project.
- Submit a finalized research project proposal complete with a procedure and required materials.

SENIOR YEAR

- Complete senior research project to be graded according to a rubric.
- End of year project presentation to graduate as a Innovation student.

GRADUATION

- Passing students will receive a special distinction upon graduation.
- Earn an extra half credit for the completion of the senior Innovation research project.

APPLICATION PROCESS

- Complete **All** Application Requirements by Monday, March 25, 2024
 - **Written Essay**
 - **Qualifying Exam**
 - **Consideration of Current Math and Science Grades**
- Current 9th graders apply at course selection time.
- Applications are Reviewed by a Committee
- Program Acceptance notifications will be provided by April 2024.



* Class can be taken in 10th grade

+ Ideally, this internship would be related to the students' proposed senior year research project.