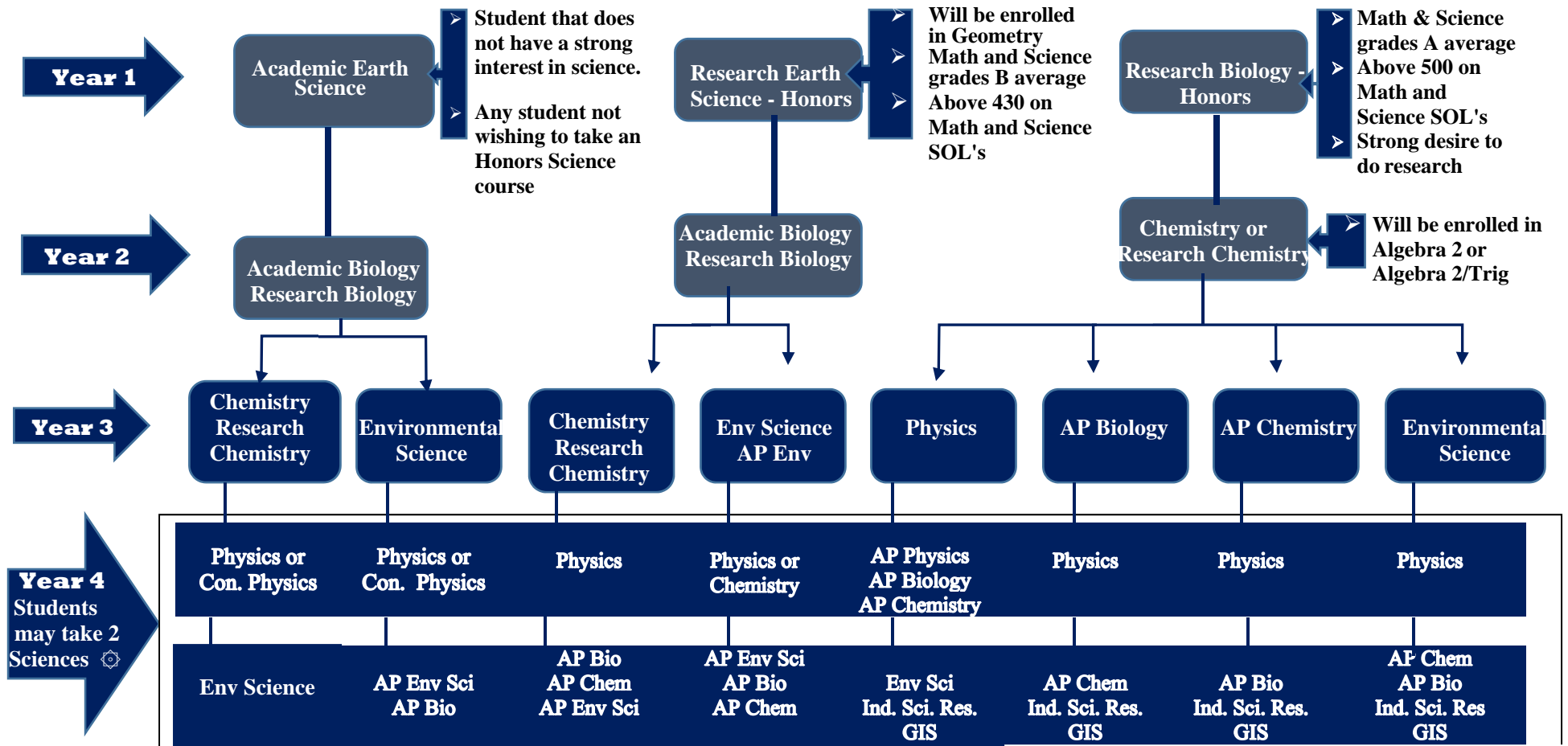


SCIENCE OPTIONS BRIAR WOODS HIGH SCHOOL



Physics vs Conceptual Physics

- Regular Physics – should have already taken Algebra 2 to be successful, strong C+ student
- Conceptual Physics – students with a weak math foundation, students not ready for Chemistry

AP Biology—prerequisite Biology and Chemistry

AP Chemistry—must pass Chemistry first, suggested sequence is straight from Chemistry with no year in between

AP Physics—must pass Physics first, recommended pre/co-requisite is AP Calculus AB

AP Environmental Science – must pass Earth Science and Biology first

Independent Science Research (ISR)—Dual Enrollment course through GMU—3 credits, prerequisite of 3 lab sciences in 3 different disciplines, elective science course, cannot count for 4th science for advanced studies diploma, very strong math and science students with a desire to extend their research from a previous course.

Geospatial Science (GIS) - Students may also choose a Dual Enrollment option offered through a partnership with James Madison University's (JMU) Department of Geology and Geography. Students have the opportunity to earn 6 college credits from JMU while completing the in-depth research project. The project is mandatory for all students.

- For all research classes, there is an addition of the independent research project in addition to a faster-paced class with slightly more rigor.
- During Junior and Senior year, students may double up on sciences by choosing to replace one of their elective choices.