

The Mathematics and Science Academy

At Morgan County High School

OVERVIEW

Designed for academically motivated and dedicated students, the Mathematics and Science Academy at Morgan County High School provides a rigorous and relevant program of study to juniors and seniors emphasizing the core academic areas of mathematics and science.

PROGRAM COMPONENTS

During a student's tenure within the Mathematics and Science Academy, he/she will be able to have a rich environment of instruction and experiences including:

- Specialized counseling for college and career pursuits beyond high school that require strong backgrounds in mathematics and science
- Participation in various academic competitions and academic honor societies
- Extensive laboratory experiences in preparation for college-level research requirements and opportunities
- Emphasis on critical thinking skills in all academic courses
- English and social studies curricula which infuses opportunities for development of technical writing and communication skills
- Exposure to advanced-level mathematics courses that foster problem solving skills based on real-world applications using current data and technology

TYPICAL COURSE OF STUDY FOR CLASS OF 2012

JUNIOR YEAR

Accelerated Math III
AP Biology
IB Physics 1
US History for MSA
American Literature
World Language/Latin
1 Elective
MSA Advisory/Enrichment

SENIOR YEAR

AP Calculus
AP Chemistry
AP Statistics
Dual Enrollment English Literature
3 Electives
MSA Advisory/Enrichment

PROGRAM REQUIREMENTS

Each academy student will:

- Complete a minimum of five Carnegie Units in mathematics with an Advanced Placement course in Statistics and Calculus.
- Complete a minimum of five Carnegie Units in science with an Advanced Placement course in Biology and Chemistry.
- Complete a research or mentorship project in math or science during the senior year
- Take all Advanced Placement exams for the Advanced Placement courses taken in the Academy.