

**Macomb Academy of Arts and Sciences
STEM Honors Diploma Program**

Required Core Courses	Recommended Year	Prerequisites
HONORS CHEMISTRY	9	None
HONORS GEOMETRY	9	None
HONORS STATISTICS	9,10,11,12	Algebra 2 for AP Statistics
HONORS BIOLOGY	10	Chemistry
HONORS ALGEBRA 2	10	Geometry
PRE-CALCULUS	11	Honors Algebra 2
AP PHYSICS 1 or AP PHYSICS C	11,12	Honors Algebra 2
AP CALCULUS or AP STATISTICS	12	Pre Calculus for AP Calculus or Algebra 2 for AP Statistics

Science Concentration	Recommended Year	Prerequisites
AP BIOLOGY	11,12	Biology, Chemistry
AP CHEMISTRY	10,11,12	Chemistry
AP PHYSICS 1	11,12	Physics or Algebra 2
AP PHYSICS C	12	Concurrent with Calculus, AP Physics 1
AP ENVIRONMENTAL	11,12	Biology, Chemistry
HONORS ANATOMY AND PHYSIOLOGY	10,11,12	Biology or concurrent with Biology

Engineering Concentration (Must Take Engineering Principles and 2 Others)

HONORS ENGINEERING PRINCIPLES	11,12	None
AP PHYSICS 1	11,12	Physics or Algebra 2
AP PHYSICS C	11,12	Concurrent with Calculus, AP Physics 1
AP ENVIRONMENTAL	11,12	Biology, Chemistry

Technology Concentration	Recommended Year	Prerequisites
INTRO TO NETWORKS/CYBERSECURITY	10,11,12	None
CISCO ROUTING & SWITCHING ESSENTIALS/CCENT EXAM PREP	10,11,12	Intro to Networks/Cybersecurity
AP COMPUTER SCIENCE PRINCIPLES	10,11,12	Algebra 1

Medical Concentration	Recommended Year	Prerequisites
HONORS ANATOMY AND PHYSIOLOGY	10,11,12	Biology or concurrent with Biology
MEDICAL SCIENCE 1	11,12	None
MEDICAL SCIENCE 2	12	None
EMERGENCY MEDICAL TECHNICIAN	12	Medical Science 1

Students will earn a STEM Honors Diploma by successfully completing the Eight (8) core courses and three (3) elective courses.

Students are not required to follow any particular concentration in order to earn a STEM Honors Diploma

Students will earn a concentration endorsement by successfully completing three (3) electives in a concentration area. It is possible to earn more than one concentration.

There is no limit on the amount of elective courses a student may select.