



General McLane High School

Academy of Arts and Engineering

Engineering Student Courses:

Required Core:

English 10 Adv. or Acc.
English 11 Adv. or Acc.
English 12 Adv. or Acc.
Chemistry I ACC
Chemistry II ACC
Physics I
Physics II

Geometry ACC
Advanced Algebra/Trig
Calculus I
Calculus II

Required Electives:

Public Speaking	Grade 10
Engineering Design I	Grade 11
Engineering Design II	Grade 11
Programming I	Grade 12
Engineering Design III	Grade 12
Engineering Experience	Grade 12

Medical Arts Student Courses:

Required Core:

English 10 Adv. or Acc.
English 11 Adv. or Acc.
English 12 Adv. or Acc.
Chemistry I ACC
Chemistry II ACC
Bio II ACC
Anatomy

Geometry ACC
Advanced Algebra/Trig
Calculus I

Required Electives:

Spanish I and II	Grade 9 -12
Public Speaking	Grade 10
EMT class	Grade 11
Cultural Competence	Grade 12
Ethics	Grade 12

Engineering Students Required Activities:

1. Attendance at six (6) programs during extended advisory period during grade 10.
2. Participation in Robobots and J.E.T.S.
3. Attendance at two (2) programs during extended advisory period during grade 11.
4. Participation in Technology Ingenuity Challenge at least once junior or senior year.
5. Participate in two shadow experiences, one in the junior year and one in the senior year.
6. Serve 40 hours of volunteer service at a partner facility, or other approved facility, between January of the junior year and March of the senior year.

Medical Arts Students Required Activities:

1. Attendance at six (6) programs during extended advisory period during grade 10.
2. Participation in at least 10 hours of community service through Key Club in grade 10 and 11.
3. Attendance at four (4) programs during extended advisory period during grade 11.
4. Shadow at a hospital or medical facility and at LECOM medical school once during the junior year. Complete another shadow experience during the senior year at a partner facility or other approved facility.
5. Participate in a evening social experience with foreign nursing students at EUP.
6. Serve 40 hours of volunteer service at a partner facility, or other approved facility, between January of the junior year and March of the senior year.