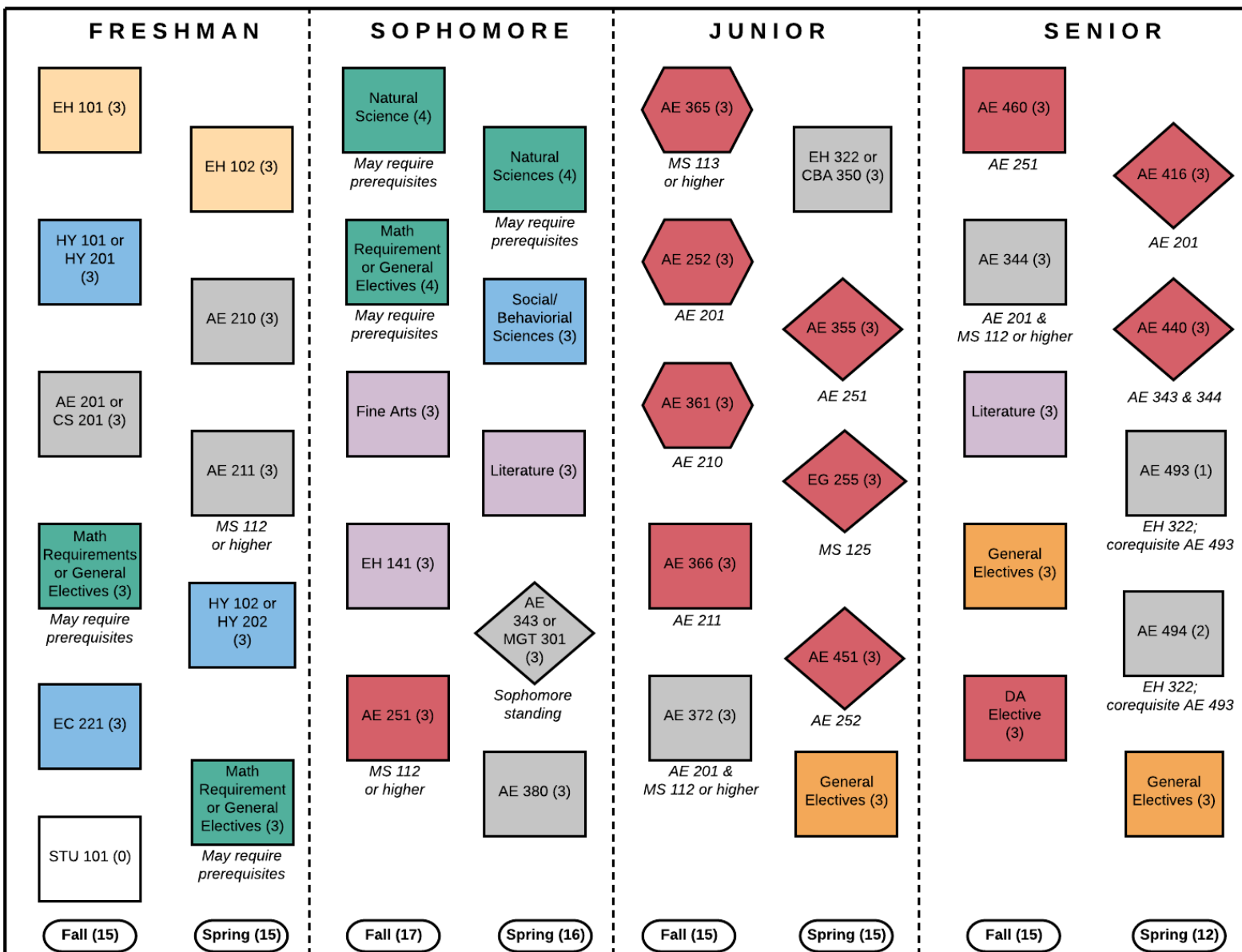




Program Planner
Major: Applied Manufacturing Engineering
Concentration: Design and Automation



History:
Select one complete sequence:
HY 101/102 or 201/202

Social and Behavioral Sciences:
Select from EC 222 (recommended), GY 120, PSC 100, PSY 201, or SY 221

Natural Science:
Select two courses:
CY 105/107, 106/108 or PHS 201/203, 202/204

Math Requirement: MS125
Math Placement

Dept.	#	EdReady
MS	100	<80
MS	112	80+
MS	113 or 120	80+ with ACT 24 or SAT 560
MS	115	80+ with ACT 26 or SAT 600
MS	125	80+ with ACT 28 or SAT 640

Literature:
Select two courses:
EH 201/202, 203/204, 219/220, or 231/232

Fine Arts:
Select from ART 202, DR 242, or MU 233

See advisor for Design and Automation Elective.

Seniors will be required to take a professional certification exam to meet graduation requirements in their final semester (EPP).

Prerequisites are noted below the course.

Degree Hours Summary:

University Requirements: 42 hours

Major Requirements: 63 hours

General Electives: 15 hours

Total: 120 hours

Both Semesters
Spring
Fall
Semester (Hours Earned)
Core Requirements
Student Affairs
Major Requirements
General Electives
Written Composition
Science/Mathematics
History & Social Science
Humanities/Fine Arts

Major: Applied Manufacturing Engineering Concentration: Design and Automation

AE 201 (3) Microcomputers: Applications and Techniques

AE 210 (3) Machining/Manufacturing Processes

AE 211 (3) AC/DC Circuits (*MS 112*)

AE 251 (3) Computer-Aided Design (*MS 112*)

AE 252 (3) Programmable Controllers (*AE 201*)

AE 343 (3) Managing Engineering Technology (*Sophomore Standing*)

AE 344 (3) Manufacturing Cost Analysis (*MS 112 and AE 201*)

AE 355 (3) Solid Modeling (*AE 251*)

AE 365 (3) Strength of Industrial Materials (*MS 113*)

AE 361 (3) Materials and Processes of Industry (*AE 210*)

AE 366 (3) Control Systems (*AE 211*)

AE 372 (3) Statistical Analysis for Quality Control (*MS 112 and AE 201*)

AE 380 (3) Industrial Safety and Health

AE 416 (3) Manufacturing Automation and Robotics (*AE 201*)

AE 440 (3) Manufacturing Management Systems (*AE 343 and AE 344*)

AE 451 (3) Advanced Programmable Controllers (*AE 252*)

AE 493 (1) Senior Seminar (*EH 322, Sr. Standing, and DH approval*)

AE 494 (2) Industrial Internship (*EH 322, Sr. Standing, and DH approval*)

EH 322 (3) Technical Writing

CBA 350 (3) Business Communications

CS 201 (3) Introduction to Information Technology

EG 255 (3) Engineering Computation (*MS 125*)

MGT 301 (3) Principles of Management

Graduation Requirements

120 Total Hours	"C" or Higher in E and MS courses
30 JSU Hours	Apply to graduate
36 300+ Hours	EPP Exam
60+ Hours at a 4yr Institution	Department Exit Exam
2.0 Overall GPA	Department Exit Interview
2.0 JSU GPA	