ENGINEERING SCIENCE

1st Semester 16 Credits
- CHEM 111 [1 Credit]
- CMPSC 200 or ESC 261 [3 Credits]
- ECON 102 or 104 [3 Credits]
- EDSGN 100*# [3 Credits]
- MATH 140 [3 Credits]
- PHYS 211* [4 Credits]

2nd Semester 16 Credits
- CHEM 111 [1 Credit]
- CMPSC 200 or ESC 261 [3 Credits]
- ENGL 015* or ENGL 030* or ESL 015* [3 Credits]
- FYS [1 Credit]
- MATH 251* [4 Credits]
- PHYS 212* [4 Credits]
- PHYS 214 [2 Credits]
- GEN ED [3 Credits]

3rd Semester 16 Credits
- EMCH 210H* [5 Credits]
- MATH 220 [2 Credits]
- MATH 251* [4 Credits]
- ME 302 [4 Credits]
- PHYS 212* [4 Credits]
- PHYS 214 [2 Credits]
- GEN ED [3 Credits]

4th Semester 17 Credits
- EMCH 212H** [3 Credits]
- MATH 230 [4 Credits]
- ESC 312 [3 Credits]
- ESC 407** [3 Credits]
- ESC 404** [3 Credits]
- GEN ED [3 Credits]

5th Semester 16 Credits
- EMCH 212H** [3 Credits]
- MATH 230 [4 Credits]
- ESC 312 [3 Credits]
- ESC 407** [3 Credits]
- ESC 404** [3 Credits]
- GEN ED [3 Credits]

6th Semester 16.5 Credits
- EE 210~ [4 Credits]
- FOUNDATIONAL ELECTIVE (SEE BELOW) [3 Credits]
- FOUNDATIONAL ELECTIVE (SEE BELOW) [3 Credits]
- ESC 407** [3 Credits]
- ESC 404** [3 Credits]
- GEN ED [3 Credits]

7th Semester 16 Credits
- FOUNDATIONAL ELECTIVE (SEE BELOW) [3 Credits]
- FOUNDATIONAL ELECTIVE (SEE BELOW) [3 Credits]
- ESC 407** [3 Credits]
- ESC 404** [3 Credits]
- GEN ED [3 Credits]

8th Semester 15.5 Credits
- FOUNDATIONAL ELECTIVE (SEE BELOW) [3 Credits]
- FOUNDATIONAL ELECTIVE (SEE BELOW) [3 Credits]
- TRANSCENDENTAL ELECTIVE [3 Credits]
- GEN ED [3 Credits]

Foundational Electives (FE) with prerequisites
- Core (Select 3-5 Courses)
  - CHEM 112 (3cr)
  - AERSP 308H (3cr) [SP]
  - EMCH 213, MATH 251
  - EMCH 416H (3cr) [SP]
  - ESC 400H (3cr)

Alternative FE's (0-2 Courses)
- Departmental list contains courses from AERSP, AE, BE, BMB, BME, BIOL, CE, CHE, CHEM, CMPEN, CMPSC, EE, ESC, EEYE, ENGR, IE, ME, MATH, MATSE, METEO, NUCE, and others by petition.

Fall Only Courses
- PHYS 212* [4 Credits]
- PHYS 214 [2 Credits]
- GEN ED [3 Credits]

Spring Only Courses
- PHYS 212* [4 Credits]
- PHYS 214 [2 Credits]
- GEN ED [3 Credits]

This is meant to support the current Suggested Academic Plan found at bulletins.psu.edu

Updated: 7/22/2020
www.advising.engr.psu.edu

* Course requires a grade of C or better for the major
# Course is an Entrance to Major requirement
~ Prerequisites include: PHYS 212
^ An alternate course is available the other semester
^^ Honors course
- = Prerequisite or Concurrent
--- = Prerequisite