FIRE PROTECTION AND SAFETY ENGINEERING TECHNOLOGY
125 Semester Hours
2022-2023

Oklahoma State University
College of Engineering, Architecture & Technology

Name: _____

Advisor: _____

Preparatory Courses

Year 1

Freshman Fall 16	Freshman Spring 15

Year 2

Sophomore Fall 16	Sophomore Spring 16

College/Program Requirements.

Course Boxes

CHEM 1414 [5]
General Chemistry I
Grade | Sem

POLS 1113
American Government
Grade | Sem

STAT 2013

FPST 2343
Industrial Hygiene
Grade | Sem

FPST 1213
Fire Safety Haz Recon
Grade | Sem

FPST 1373
Fire Supp & Det Sys
Grade | Sem

FPST 2483 [6]
Fluid Mech for FP
Grade | Sem

FPST 2243
Sprinkler Sys Design
Grade | Sem

CET 2253 or ENGR 1322 [7]
Graphic Design
Grade | Sem

FPST 2023 [6]
Occup Safety Techn
Grade | Sem

MATH 1513 [3]
Coll Algebra
Grade | Sem

MATH 1813 [3]
Pre-Calculus
Grade | Sem

MATH 2144 [3]
Calculus I
Grade | Sem

MATH 2133/2153 [3]
Cal for Technology II
Grade | Sem

STAT 2013
Statistics
Grade | Sem

FPST 3383
Building Elect Sys
Grade | Sem

HIST 1103
American History
Grade | Sem

"A" or "N" Elective [4]
_ _ _3
Grade | Sem

PHYS 2014
Physics I
Grade | Sem

ENSC 2113 Statics Or GENT 2323 [4]
Grade | Sem

ENGL 1113 [1]
Fresh Comp I
Grade | Sem

"H" Elective [2]
_ _ _3 Social Sciences
Grade | "I" or "D"

Specialty Elective [7]
_ _ _3 Specialty Elective
Grade | Sem

College/Program Requirements.

- <u>Engineering or Engineering Science 11 hrs:</u> ENGR 1322 or CET 2253, ENSC 2113, ENSC 2213 or MET 3433 or MET 3453.

- <u>Specialty 18 hours:</u> FPST 1213, 1373, 2023, 2243, 2343, and 2483.

- <u>Specialty Electives 6-7hrs.</u> (see note 7) Chosen from:
  CMT 4443, FEMP 3103, 3733, 3763, MGMT 3133
  FPST or FSEP courses not used elsewhere.
  ENSC courses not used elsewhere (except ENSC 2213 if MET 3433 is used for Engineering Science Requirements).
  MET 3433 (Cannot be used if ENSC 2213 or MET 3433 is used for Engineering Science Requirements).
  MET 3453 (Cannot be used if MET 3453 is used for Engineering Science Requirements).

- <u>Major Requirements:</u> FPST 3013, 3143, 3213, 3373, 4143, 4333, 4403, 4683, 4982, 4992, ENSC 2143 or 3313, STAT 2013 or 4013, or 4033, and IEM 3503 or 3513.

- <u>Controlled Electives 9hrs:</u> At Least 9 Upper-Division hours from: FPST 3113, 3383, 4213, 4383, 4233, FRNS 5143, CET 4443.

- **NOTE:** This flow chart is for planning purposes only. Students will be held responsible for degree requirements in effect at the time of matriculation (date at first enrollment) & any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.

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1. Students with less than a "B" in ENGL 1113, 1313, or 1123 must take ENGL 1213 or 1413; **and may not choose ENGL 3323 as a substitution for ENGL 1213.**

2. At least 6 hours designated (H) and at least 3 hours designated (S). Students must also meet the International Dimension "I" and Diversity "D" requirement.

3. ALEKS Exams for Mathematics Classes: Students are required to take an online examination using a system named ALEKS. The following website describes the exam, how to login and other details. Please read all of this page before going to the link to the exam. Refer to the OSU Math Department website: http://placement.okstate.edu/math

4. Math 1613 may be used as an "A" elective course.

5. Students can take CHEM 1414, or CHEM 1314 and CHEM 1515, or CHEM 1215 and 1225.

6. FPST 2023 and 2483 require students to have either successfully completed the MATH preparatory courses or obtained the ALEKS score required to be admitted to MATH 2123 or 2144. Refer to the OSU Math Department website: http://placement.okstate.edu/math.

7. Students who take ENGR 1322 will need to take 1 additional hour of specialty elective.

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Year 3   Year 4

PREREQUISITES

Junior Fall 16	
Junior Spring 15	
Senior Fall 17	
Senior Spring 14	

FPST 2343, FPST 2483, FPST 3373

CHEM 1414, MATH 2133 or 2153, STAT 2013, MET 3433 or ENSC 2213 or MET 3453, FPST 2483

FPST 1213, FPST 1373

FPST 2023, STAT 2013, GENT 2323 or ENSC 2113

CHEM 1414, FPST 2023, FPST 2343

MATH 2144/2123

STAT 2013, FPST 2023, MATH 2123 or 2144

ENGL 3323, MET 3433 OR 4433 OR ENSC 2213, 2143, 3313

Junior Fall (16)

FPST 3143 — Structure Design | Grade | Sem

FPST 3213 — Human Factors | Grade | Sem

MET 3433/3453 Or ENSC 2213 — Heat Trsfr or Thermo | Grade | Sem

ENSC 3431 — Thermal Science Lab | Grade | Sem

ENGL 3323 — Technical Writing | Grade | Sem

Specialty Elective[7] — ___ 3 Specialty Elective | Grade | Sem

Junior Spring (15)

FPST 3373 — Fire Dynamics | Grade | Sem

GENT 3323/ENSC 2243/3313 — Stength of Materials | Grade | Sem

FPST 3013 — Safety Management | Grade | Sem

UPPER DIVISION — ___ 3 Control Elective | Grade | Sem

IEM 3503/3513 — Eng Economic Analysis | Grade | Sem

Senior Fall (17)

FPST 4143 — Vent & Smoke Control | Grade | Sem

FPST 4403 — HazMat Mgnt | Grade | Sem

FPST 4982 — Fire & Safety Pjt I | Grade | Sem

UPPER DIVISION — ___ 3 Specialty Elective | Grade | Sem

MATH 3013/2233 Or STAT 3013/4033 | Grade | Sem

"H" Elective — ___ 3 Humanities | Grade | Sem

Senior Spring (14)

UPPER DIVISION — ___ 3 Control Elective | Grade | Sem

"S" Elective — ___ 3 Social Sciences | Grade | Sem

FPST 4992 — Fire & Safety Pjt II | Grade | Sem

FPST 4333 — System Safety Analysis | Grade | Sem

FPST 4683 — Risk Control Engr | Grade | Sem

Graduation Requirements:

1. A grade of 'C' or better is required in each course that is a prerequisite to a required course that has an engineering or engineering technology prefix.
2. A grade of 'C' or better is required in FPST 4683 and FPST 4992 or 4994.
3. A minimum overall GPA of 2.0 is required in all courses that are used in this degree plan with engineering or engineering technology prefixes.

Additional State/OSU Requirements:

1. At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU
2. Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
3. Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
4. Degrees that follow this plan must be completed by the end of Summer 2025.