Fire Protection Engineering Sample Plan

Year 1		Year 2		Year 3		Year 4	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
FSAW Academic Writing (3) — F/S/Su	**General Education** (3) — F/S/W/Su	**General Education** (3) — F/S/W/Su	**General Education** (3) — F/S/W/Su	**General Education** (3) — F/S/W/Su	**General Education** (3) — F/S/W/Su	**Technical Elective** (3) — F/S/W/Su	**Technical Elective** (3) — F/S/W/Su
*MATH 140 or Higher → **CHEM 135** General Chemistry for Engineers (3) — F/S/Su	**General Education** (3) — F/S/W/Su	**ENFP 250** Into to Life Safety Analysis (3) → ENFP 413 — F	MATH 141 → **ENFP 201** Numerical Methods with Matlab (3) → ENFP 300 — S	FSAW and 60crs → **FSPW** Professional Writing (3) — F/S/W/Su	**ENFP 350** Professional Development Seminar (1) — S	ENES 220 → **ENFP 405** Structural Fire Protection (3) — F	Senior Standing → **ENFP 411** Risk-Informed Performance Based Design (3) — S
MATH 140 Calculus I (4) → MATH 141 — F/S/Su	MATH 140 → **MATH 141** Calculus II (4) → MATH 240, 241 & 246 — F/S/Su	**MATH 240/241** Linear Algebra **OR** Calculus III (4) — F/S/Su	MATH 141 → **MATH 246** Differential Equations (3) → ENFP 300 — F/S/Su	**Technical Elective** (3) — F/S/W/Su	ENFP 250 → **ENFP 413** Human Response to Fire (3) — S	ENFP 310, ENFP 312 → **ENFP 410** Special Hazard Suppression Systems (3) — F	ENFP 312 → **ENFP 420** Fire Assessment Methods and Laboratory (4) — S
*MATH 140 or Higher → **ENES 100**** Introduction to Engineering Design (3) — F/S	MATH 140 → **ENES 102**** Mechanics I (3) → ENES 220 & 221 — F/S/W/Su	ENES 102, MATH 141, PHYS 161 → **ENES 221**** Dynamics (3) — F/S/W/Su	ENES 102, MATH 141, PHYS 161 → **ENES 220**** Mechanics II (3) → ENFP 405 — F/S/W/Su	MATH 246, ENFP 201, PHYS 260* & 261* → **ENFP 300** Fire Protection Fluid Mechanics (3) → ENFP 310, ENFP 312 — F	ENFP 300, ENFP 312* → **ENFP 310** Water Based Fire Protection Systems Design (3) → ENFP 410 — S	ENFP 312 → **ENFP 415** Fire Dynamics (3) — F	Recc: ENFP 425 → **ENFP 426** Computational Methods in FPE (3) — S
ENFP 101 Introduction to Fire Protection Engineering (1) — *Optional* — F/S	*MATH 141 or Higher → **PHYS 161** General Physics: Mechanics and Particle Dynamics (3) → PHYS 260 & 261 — F/S/Su	PHYS 161 → **PHYS 260/261** General Physics(3) & PHYS 261 Lab Class (1) (3/1) → ENES 232, ENFP 300* — F/S/Su	PHYS 161, MATH141, CHEM135, ENES102 → **ENES 232**** Thermodynamics (3) → ENFP 312, ENFP 425 — F/S/W/Su	ENFP 300* → **ENFP 440** Smoke Management and Fire Alarm Systems (3) — F	ENES 232, ENFP 300 → **ENFP 312** Heat and Mass Transfer (3) → ENFP 410, 415, 420, 425 — S/Su	ENES 232, ENFP 300 & 312 → **ENFP 425** Enclosure Fire Modeling (3) — S	

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KEY

Prerequisite & Corequisite Courses

Course Number
Course Title
(# of Credits)

Term Offered — **Following courses that can be taken upon completion**

**	Keystone Course
*	Corequisite
F/S/W/Su	Semester Offered

	Basic Science Course
	Fire Protection Course
	Engineering Course
	General Education & Technical Electives

Technical Elective (3) — F/S/W/Su

A. JAMES CLARK SCHOOL OF ENGINEERING
DEPARTMENT OF FIRE PROTECTION ENGINEERING

Study Abroad

Fire Protection Engineering students have the opportunity to study abroad through their Junior year in countries such as Spain, Australia, Taiwan, UAE and more. The list of locations and courses that can be taken abroad can be found at:

www.eng.umd.edu/global/study-abroad/fire-protection-engineering

For additional information please contact the Office of Global Engineering Leadership at: *globalengr@umd.edu*

Job Opportunities & Scholarships

Job Opportunities: Fire Protection Engineering students have excellent opportunities for Co-ops, internships and full time employment. We have consistently achieved 100% job placement for our graduates. To review job postings, please visit this website: *https://fpe.umd.edu/careers*

Scholarships: The Department receives generous support and typically provides more than $130,000 a year to our students in scholarship money. Scholarship information can be found at this website: *www.fpe.umd.edu/undergraduate/prospective-students/scholarships*

Society of Fire Protection Engineers

The Society of Fire Protection Engineers is a professional society representing those practicing in the field with over 5,000 members and 100+ chapters worldwide. The University of Maryland has its own student chapter which gives students access to networking and social events as well as a lounge space within the J.M. Patterson Building on our College Park Campus. Details about the student chapter and how to join can be found at: *www.sfpe.umd.edu*

SFPE
Engineering A Fire Safe World ®

Minors & Double Majors and Degrees

Minors:
The Clark School of Engineering offers 9 minors including Global Engineering Leadership, Project Management, Nuclear Engineering and Technology Entrepreneurship. For a full list of minors and additional information can be found at: *www.eng.umd.edu/advising/minors*

Double Majors and Degrees:
Please talk with an advisor to see how this works into your academic plan. More information can be found at: *www.eng.umd.edu/advising/forms*

Technical Electives

Technical Electives are chosen in consultation with the academic advisor, but must include the following:

- at least 3 credits of MATH400+ or STAT400+
- at least 3 credits of ENFP400+
- at least 6 credits of Engineering coursework 300+, CHEM400+, CMSC400+, MATH400+, or PHYS400+

Contact an Advisor:
Email: enfp@umd.edu

Interested in learning more?
Website: www.fpe.umd.edu
Attend an information session: www.go.umd.edu/FPEIS

A. James Clark School of Engineering
Department of Fire Protection Engineering

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