

FIRE PROTECTION ENGINEERING

NAME:

A.A., A.S., Post-Bac

UID:

GENERAL EDUCATION REQUIREMENTS			
Fundamental Studies			
Academic Writing (AW)	ENGL 101		3
Professional Writing (PW)	ENGL 39X		3
Oral Communication (OC)			3
Mathmatics (MA)	MATH 140		4
Analytic Reasoning (AR)	MATH 140		0
GenEd Distributive Studies			
History/Social Sciences (HS*)			3
History/Social Sciences (HS*)			3
Humanities (HU*)			3
Humanities (HU*)			3
Natural Sciences No Lab (NS)	PHYS 161		3
Natural Sciences w/Lab (NL)	PHYS 260/261		4
Scholarship in Practice (SP*) in major	ENES 100		3
Scholarship in Practice (SP*) out major			3
Big Question Courses			
Big Question (SCIS*)			0/3
Big Question (SCIS*)			0/3
GenEd Diversity			
Understanding Plural Societies (UP*)			0/3
Understanding Plural Societies (UP*) OR Cultural Competency (CC*)			0/3
MAJOR REQUIREMENTS			
Basic Sciences			
CHEM 135-Chem Engr or 131 & 134 -Fund & Prin			3/3&1
PHYS 161 - General Physics I (NS)			0
PHYS 260 and PHYS 261 - Gen Physics II & Lab (NL)			0
MATH 140 - Calculus I (MA/AR)			0
MATH 141 - Calculus II			4
MATH 240 - Linear Algebra or MATH 241 - Calculus III			4
MATH 246 - Differential Equations			3
Engineering Sciences			
ENES 100 - Intro to Eng Design (SP)			0
ENES 102 - Mechanics I			3
ENES 220 - Mechanics II			3
ENES 221- Dynamics			3
ENES 232 - Thermodynamics			3

MAJOR REQUIREMENTS		
ENFP 201 - Computer Programming & Numerical Methods		3
ENFP 250 - Intro to Life Safety Analysis		3
ENFP 300 - Fire Protection Fluid Mechanics		3
ENFP 310 - Water Based FP Sys. Design		3
ENFP 312 - Heat & Mass Transfer		3
ENFP 420 - Fire Assessment Methods & Lab		4
ENFP 350 - Professional Dev Seminar		1
ENFP 405 - Structural Fire Protection		3
ENFP 410 - Special Hazard Suppression Systems		3
ENFP 411 - Risk Informed Performance Based Design		3
ENFP 413 - Human Response to Fire		3
ENFP 415 - Fire Dynamics		3
ENFP 425 - Enclosure Fire Modeling		3
ENFP 426 - Computational Methods in FPE		3
ENFP 440 - Smoke Mgmt & Fire Alarm Systems		3
Technical Requirements		
Technical Elective**		3
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Requirements for Graduation:
- Final 30 credits must be earned at UMD 15 of the final 30 credits must be earned at the 300-400 level 12 of the final 30 credits must be upper level major coursework - A minimum 2.00 cumulative UM GPA and satisfactory completion of all degree requirements are required for graduation - Students matriculating after Fall 2012 must have a 2.0 minimum GPA for all degree requirements, minor requirements, and undergraduate certificate requirements (Major courses are defined as: departmental courses, basic sciences, engineering sciences, specified degree tracks, technical requirements/ technical electives and Professional Writing) - A minimum of 120 credits is required to earn the degree

*May satisfy more than one requirement. See

**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

Fire Protection Engineering Graduation Plan

Name:

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Current Engineering Students: <https://eng.umd.edu/services/academic-policies>

Prospective Engineering Students: <https://lep.umd.edu/>

Year 1	Fall		
	Course	Credit	Grade
	ENFP 101 (<i>optional</i>)	1	
	ENES100 (SP)	3	
	MATH 140 (AR)	4	
	CHEM 135	3	
	ENGL 101 (AW)	3	
	Total	13-14	

Spring		
Course	Credit	Grade
ENES102	3	
MATH 141	4	
PHYS 161 (NL)	3	
Hist & Social Sciences (HS)*	3	
Humanities (HU)*	3	
Total	16	

Year 2	Fall		
	Course	Credit	Grade
	ENFP 250	3	
	ENES 221	3	
	MATH 240 or 241	4	
	PHYS 260 and PHYS 261 (NL)	3 & 1	
	Scholarship and Practice (SP)*	3	
	Total	17	

Spring		
Course	Credit	Grade
ENFP 201	3	
ENES 220	3	
ENES 232	3	
MATH 246	3	
Oral Communication (OC)	3	
Total	15	

Year 3	Fall		
	Course	Credit	Grade
	ENFP 300	3	
	ENFP 440	3	
	Technical Elective**	3	
	Professional Writing (PW)	3	
	Hist & Social Sciences (HS)*	3	
	Total	15	

Spring		
Course	Credit	Grade
ENFP 310	3	
ENFP 312	3	
ENFP 350	1	
ENFP 413	3	
Technical Elective**	3	
Humanities (HU)*	3	
Total	16	

Year 4	Fall		
	Course	Credit	Grade
	ENFP 405	3	
	ENFP 410	3	
	ENFP 415	3	
	ENFP 425	3	
	Technical Elective**	3	
	Total	15	

Spring		
Course	Credit	Grade
ENFP 411	3	
ENFP 420	4	
ENFP 426	3	
Technical Elective**	3	
Total	13	

*All students must complete two Distributive Studies courses that are approved for Big Question courses.

The Understanding Plural Societies (UP) and Cultural Competence (CC) courses may also fulfill Distributive Studies categories.

**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+

Updated Fall 2026