

NAME: \_\_\_\_\_

# FIRE PROTECTION ENGINEERING

UID: \_\_\_\_\_ \_\_ A.A. \_\_ A.S. \_\_ Post-Bac

## GENERAL EDUCATION REQUIREMENTS

### Fundamental Studies

Academic Writing (AW)	ENGL 101		3
Professional Writing (PW)	ENGL 39X		3
Oral Communication (OC)			3

### GenEd Distributive Studies

History/Social Sciences (HS*)			3
History/Social Sciences (HS*)			3
Humanities (HU*)			3
Humanities (HU*)			3
Scholarship in Practice (SP*) out of major			3

### GenEd I-Series Courses

I-Series (IS*)			0/3
I-Series (IS*)			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)			3
PHYS 260 and PHYS 261 - Gen Physics II & Lab (NL)			3 & 1
MATH 140 - Calculus I (MA/AR)			4
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)			3
ENES 102 - Mechanics I			3
ENES 220 - Mechanics II			3
ENES 221- Dynamics			3
ENES 232 - Thermodynamics			3

\*May satisfy more than one requirement. See [www.gened.umd.edu](http://www.gened.umd.edu)

\*\*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+

## MAJOR REQUIREMENTS

ENFP 201 - Numerical Methods with MatLab			3
ENFP 250 - Intro to Life Safety Analysis			3
ENFP 300 - FP 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 - Advanced Fire Suppression			3
ENFP 411 - Risk Informed Perfm Base Des			3
ENFP 413 - Advanced Life Safety Analysis			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 Sys			3

### Technical Requirements

Technical Elective**			3
Technical Elective**			3
Technical Elective**			3
Technical Elective**			3

### 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

### For Degree Clearance Only

Degree: B.S. ENFP	Advisor: _____
Date: _____	Credits/GPA: _____

# Fire Protection Engineering Four Year Academic Plan

Name: \_\_\_\_\_

UID: \_\_\_\_\_

Year 1	Fall		
<a href="https://lep.umd.edu/">https://lep.umd.edu/</a>	Course	Credit	Grade
	ENFP 101 ( <i>suggested</i> )	1	
	ENES100 (SP)	3	
	MATH 140 (AR)	4	
	CHEM 135	3	
	ENGL 101 (AW)	3	
	<b>Total</b>	<b>14</b>	

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

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	
	<b>Total</b>	<b>17</b>	

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

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

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

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

Spring		
Course	Credit	Grade
ENFP 411	3	
ENFP 420	4	
ENFP 426	3	
Technical Elective**	3	
<b>Total</b>	<b>13</b>	

\*All students must complete two Distributive Studies courses that are approved for I-series 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+