

# Fire Protection Engineering Four Year Academic Plan

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

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

Year 1	Fall		
Gateway requirements include: ENGL 101, CHEM 135, MATH 141, PHYS 161 and an approved Distributive Studies course. (Directly admitted freshman must successfully complete these courses and ENES 100 by 45 UM credits.)	Course	Credit	Grade
	ENFP 101 ( <i>suggested</i> )	1	
	ENES102	3	
	MATH 140 (AR)	4	
	CHEM 135	3	
	ENGL 101 (AW)	3	
	<b>Total</b>	<b>14</b>	

Spring		
Course	Credit	Grade
ENES100 (SP)	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
	MATH 206	1	
	MATH 246	3	
	ENFP 250	3	
	ENES 221	3	
	PHYS 260 and PHYS 261 (NL)	3 & 1	
	Scholarship and Practice (SP)*	3	
<b>Total</b>	<b>17</b>		

Spring		
Course	Credit	Grade
MATH 240 or 241	4	
ENES 232	3	
ENES 220	3	
ENFP 300	3	
Oral Communication (OC)	3	
<b>Total</b>	<b>16</b>	

Year 3	Fall		
	Course	Credit	Grade
	ENFP 310	3	
	ENFP 312	3	
	Approved Elective	3	
	General Elective	3	
	Humanities (HU)*	3	
	<b>Total</b>	<b>15</b>	

Spring		
Course	Credit	Grade
ENFP 320	4	
ENFP 350	1	
ENFP 440	3	
Approved Elective	3	
Hist & Social Sciences (HS)*	3	
<b>Total</b>	<b>14</b>	

Year 4	Fall		
	Course	Credit	Grade
	ENFP 405	3	
	ENFP 413	3	
	ENFP 415	3	
	ENFP 425	3	
	ENGL 393 (PW)	3	
<b>Total</b>	<b>15</b>		

Spring		
Course	Credit	Grade
ENFP 410	3	
ENFP 411	3	
ENFP 426	3	
Approved Elective	3	
Approved Elective	3	
<b>Total</b>	<b>15</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.

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 393		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 206 - Introduction to MATLAB			1
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

## MAJOR REQUIREMENTS

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 320 - Fire Assessment Methods			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

Approved Elective**			3
Approved Elective**			3
Approved Elective**			3
Approved 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 ENGL 393)*
- A minimum of 120 credits is required to earn the degree

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

\*\*At least 3 credits of ENFP 4XX and 3 credits of 300-400 level coursework in statistics, math or applied math are required. Additional electives should be selected in consultation with ENFP Dept. Advisor. See: [www.fpe.umd.edu](http://www.fpe.umd.edu)

## For Degree Clearance Only

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