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

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

*May satisfy more than one requirement. See 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+

For Degree Clearance Only

Degree: B.S. ENFP Advisor: _____

Date:_____ Credits/GPA: _____

Fire Protection Engineering Four Year Academic Plan

Name:_____ **UID:**_____

Year 1	Fall			Spring		
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***	***Course***	***Credit***	***Grade***
	ENFP 101 *(optional)*	1		ENES102	3	
	ENES100 (SP)	3		MATH 141	4	
	MATH 140 (AR)	4		PHYS 161 (NL)	3	
	CHEM 135	3		Hist & Social Sciences (HS)*	3	
	ENGL 101 (AW)	3		Humanities (HU)*	3	
	Total	**13-14**		**Total**	**16**	

Year 2	Fall			Spring		
	Course	***Credit***	***Grade***	***Course***	***Credit***	***Grade***
	ENFP 250	3		ENFP 201	3	
	ENES 221	3		ENES 220	3	
	MATH 240 or 241	4		ENES 232	3	
	PHYS 260 and PHYS 261 (NL)	3 & 1		MATH 246	3	
	Scholarship and Practice (SP)*	3		Oral Communication (OC)	3	
	Total	**17**		**Total**	**15**	

Year 3	Fall			Spring		
	Course	***Credit***	***Grade***	***Course***	***Credit***	***Grade***
	ENFP 300	3		ENFP 310	3	
	ENFP 440	3		ENFP 312	3	
	Technical Elective**	3		ENFP 350	1	
	Professional Writing (PW)	3		ENFP 413	3	
	Hist & Social Sciences (HS)*	3		Technical Elective**	3	
				Humanities (HU)*	3	
	Total	**15**		**Total**	**16**	

Year 4	Fall			Spring		
	Course	***Credit***	***Grade***	***Course***	***Credit***	***Grade***
	ENFP 405	3		ENFP 411	3	
	ENFP 410	3		ENFP 420	4	
	ENFP 415	3		ENFP 426	3	
	ENFP 425	3		Technical Elective**	3	
	Technical Elective**	3				
	Total	**15**		**Total**	**13**	

*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+