

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

| Requirements for Graduation: | |
|--|--|
| <input type="checkbox"/> | Final 30 credits must be earned at UMD |
| <input type="checkbox"/> | 15 of the final 30 credits must be earned at the 300-400 level |
| <input type="checkbox"/> | 12 of the final 30 credits must be upper level major coursework |
| <input type="checkbox"/> | A minimum 2.00 cumulative UM GPA and satisfactory completion of all degree requirements are required for graduation |
| <input type="checkbox"/> | Students matriculating after Fall 2012 must have a 2.0 minimum GPA for all degree requirements, minor requirements, and undergraduate certificate requirements |
| <i>(Major courses are defined as: departmental courses, basic sciences, engineering sciences, specified degree tracks, technical requirements/ technical electives and ENGL 393)</i> | |
| <input type="checkbox"/> | A minimum of 120 credits is required to earn the degree |

*May satisfy more than one requirement. See www.gened.umd.edu
 **Technical electives must include the following: at least 3 credits of: MATH or STAT 400+; at least 3 credits of: ENFP 400+; and at least 6 credits of: Engineering coursework 300+, CHEM 400+, or PHYS 400+." www.fpe.umd.edu

| For Degree Clearance Only | |
|---------------------------|--------------------|
| Degree: B.S. ENFP | Advisor: _____ |
| Date: _____ | Credits/GPA: _____ |

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 | |
| | ENES100 (SP) | 3 | |
| | MATH 140 (AR) | 4 | |
| | CHEM 135 | 3 | |
| | ENGL 101 (AW) | 3 | |
| | Total | 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 |
| | 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 | |
| Total | 17 | | |

| Spring | | |
|-------------------------|-----------|-------|
| Course | Credit | Grade |
| MATH 240 or 241 | 4 | |
| ENES 232 | 3 | |
| ENES 220 | 3 | |
| ENFP 300 | 3 | |
| Oral Communication (OC) | 3 | |
| Total | 16 | |

| Year 3 | Fall | | |
|--------|------------------------------|-----------|-------|
| | Course | Credit | Grade |
| | ENFP 310 | 3 | |
| | ENFP 312 | 3 | |
| | Technical Elective | 3 | |
| | General Elective | 3 | |
| | Hist & Social Sciences (HS)* | 3 | |
| | Total | 15 | |

| Spring | | |
|------------------|-----------|-------|
| Course | Credit | Grade |
| ENFP 320 | 4 | |
| ENFP 350 | 1 | |
| ENFP 440 | 3 | |
| Humanities (HU)* | 3 | |
| ENGL 393 (PW) | 3 | |
| Total | 14 | |

| Year 4 | Fall | | |
|--------------|--------------------|--------|-------|
| | Course | Credit | Grade |
| | ENFP 405 | 3 | |
| | ENFP 413 | 3 | |
| | ENFP 415 | 3 | |
| | ENFP 425 | 3 | |
| | Technical Elective | 3 | |
| Total | 15 | | |

| Spring | | |
|--------------------|-----------|-------|
| Course | Credit | Grade |
| ENFP 410 | 3 | |
| ENFP 411 | 3 | |
| ENFP 426 | 3 | |
| Technical Elective | 3 | |
| Technical Elective | 3 | |
| Total | 15 | |

*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.