MichiganTech

Degree Services
Office of Student Records & Registration

Minor in Polymer Science and Engineering

ECMM

Name (please print): _____
(Last) (First) (Middle)

Student Number: _____

Primary Major: _____ Expected Major Completion Term: _____

Required Courses – *Polymer Science Track*
Select 8-10 credits

_____ CH 2400 Principles of Organic Chemistry (4) **or**

_____ CH 2410 Organic Chemistry I (3) **and**
_____ CH 2420 Organic Chemistry II (3)

_____ CH 2411 Organic Chemistry Laboratory I (1)

_____ CM/CH 4610 Intro to Polymer Science (3) **or**
_____ BE 4300 Adv Polymeric Biomaterials (3) **or**
_____ MY 4600 Intro to Polymer Engineering (3)

Elective Courses - *Select 7-8 credits*

_____ BE 4000 Independent Study (1-3)*

_____ CM/CH 4620 Polymer Chemistry (3)

_____ CM/CH 4631 Polymer Science Laboratory (2)

_____ CM/CH 4641 Polymer Chemistry Laboratory (2)

_____ CH 4690 Current Topics in Polymer Chem (var)

_____ CH 4990 Undergrad Research - Chemistry (1-3)*

_____ CM 4000 Chem Eng Undergrad Research (1-3)*

_____ CM 4650 Polymer Rheology (3)

_____ CM 4655 Polymer Rheology Lab (1)

_____ MEEM 3999 Mech Eng Undergrad Research

_____ MEEM 4635 Design with Plastics (3)

_____ MEEM 4999 Mech Eng Senior Research Thesis

* Topic must be approved by department chair.

Credits Required = 16-17

Total Credits _____

Required Courses – *Polymer Engineering Track*
Select 9-10 credits

_____ MEEM 2150 Mechanics of Materials (3) **or**
_____ ENG 2120 Statics/Mechanics of Materials (4)

_____ MEEM3210 Fluid Mechanics (3) **or**
_____ CM 3110 Transport Processes I (3) **or**
_____ BE/ENG 3200 Thermodynamics/Fluid Mech (3) **or**
_____ MY 3110 Materials Processing II (3)

_____ CM/CH 4610 Intro to Polymer Science (3) **or**
_____ MY 4600 Intro to Polymer Engineering (3) **or**
_____ BE 4300 Advanced Polymer Biomaterials (3)

Elective Courses – *Select 7 credits*

_____ BE 4000 Independent Study (1-3)*

_____ CH 4990 Undergrad Research - Chemistry (1-3)*

_____ CM 4000 Chem Eng Undergrad Research (1-3)*

_____ CM/CH 4631 Polymer Science Laboratory (2)

_____ CM 4650 Polymer Rheology (3)

_____ CM 4655 Polymer Rheology Lab (1)

_____ MEEM 3999 Mech Eng Undergrad Research

_____ MEEM 4170 Failure of Material in Mech (3)

_____ MEEM 4403 Computer-Aided Design Meth (4)

_____ MEEM 4635 Design with Plastics (3)

_____ MEEM 4999 Mech Eng Senior Research Thesis

_____ MY 4150 Composite Materials (2)

* Topic must be approved by department chair.

Credits Required = 16-17

Total Credits _____

Courses listed in this minor have the following prerequisites (shown in parenthesis). Concurrency is illustrated by the letter C: CM4610 (CH1120), CM4620 (CH2420 or CH2400), CM4631 (CM4610 C), MEEM4403 (ENG1102), CM4641 (CM4620 C), MEEM4170 (MEEM3501), BE3200 (MA2160 and (CH1100 or CH1110) and PH2100), MEEM3210 (MEEM2200 and MEEM2700 C), MEEM2150 (MEEM2110), CM4655 (CM4610 C or CH4610 C or CM4650 C), CM4650 ((CM3110 or MEEM3210 or ENG3200 or MY3110 or CE3600) and (MA3520 or MA3521 or MA3530 or MA3560)), CH2420 (CH2410 or CH2400), MY4150 (MY2100), CH2400 (CH1120), MEEM4635 (MY2100 and MEEM2150 and MEEM3210 and MEEM3230 C), CH2411 ((CH2410 C or CH2400) C and CH1120), CM3110 (CM2120 and PH2100 and (MA3520 or MA3521 or MA3530 or MA3560)), MY3110 (MY3100), MY4600 (MY2100), CH4610 (CH1120), ENG3200 (MA2160 and (CH1100 or CH1110) and PH2100), ENG2120 (MA2160 and PH2100), CH4631 (CH4610 C or CM4610 C), CH4641 (CH4620 C), CH2410 (CH1120)

Student Date

Department Advisor Date