## Minor in Polymer Science and Engineering

**ECMM**

### 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

- **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)
- **CM 4650** Polymer Rheology (3)
- **CM 4655** Polymer Rheology Lab (1)
- **MEEM 4635** Design with Plastics (3)

### 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

- **CM/CH 4631** Polymer Science Laboratory (2)
- **CM 4650** Polymer Rheology (3)
- **CM 4655** Polymer Rheology Lab (1)
- **MEEM 4170** Failure of Material in Mech (3)
- **MEEM 4403** Computer-Aided Design Meth (4)
- **MEEM 4635** Design with Plastics (3)
- **MY 4150** Composite Materials (2)

### Credits Required

- **Total Credits 16-17**

Courses listed in this minor have the following prerequisites (shown in parenthesis). Concurrency is illustrated by the letter C: CM4610 (CH1120), CM4620 (CH2410 or CH2420), 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 CH4600 C or CH4650 C), CM4659 ((CM3110 or MEEM3210 or ENG2200 or MY3110 or CE3600) and (MA3520 or MA3521 or MA3530 or MA3560)), CH2420 (CH2410 or CH2400), CH2400 (CH1210), 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 or MA2150) and (CH1100 or CH1110 and PH2100), ENG2120 (MA2150 or MA2160) and PH2100), CH4631 (CH4610 C or CM4610 C), CH4641 (CH4620 C), CH2410 (CH1120)

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**Student** | **Date** | **Department Advisor** | **Date**
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**Academic Year 2006-07**