### Minor in Polymer Science and Engineering

**ECMM**

**Name (please print):**

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**Student Number:**

**Primary Major:**

**Expected Major Completion Term:**

### Required Courses – Polymer Science Track

*Select 10 credits*

- 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 credits

- BE 4000 Independent Study (1-3)*
- CM/CH 4620 Polymer Chemistry (3)
- CM/CH 4631 Polymer Science Laboratory (2)
- CH 4690 Current Topics in Polymer Chem (var)
- CH 4710 Biomolecular Chemistry I (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)
- CM 4655 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 4155 Composite Materials (3)

* Topic must be approved by department chair.

**Credits Required = 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 (4)
- 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 6-7 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 4155 Composite Materials (3)

* Topic must be approved by department chair.

**Credits Required = 16**

**Total Credits _______**

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**Total Credits _______**

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**Student**

**Date**

**Department Advisor**

**Date**

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**Academic Year 2013-14**

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Courses listed in this minor have the following prerequisites (shown in parenthesis). Concurrency is illustrated by the letter C: CM4610 (CH1120), CM4620 (CH2400 or CH2490), CM4631 (CM4610 C), MEEM4401 (ENG102), CM4641 (CM4620 C), MEEM4170 (MEEM3501), BE2200 (MA2160 and CH1100 or CH1110 and PH2100), MEEM3210 (MEEM2200 and MEEM2700 C), MEEM2150 (MEEM2110), CE2400 (CM/CH4610 C or CH4630 C and CH1120), CM1110 (CM1210 and PHE2100 and (MA3520 or MA3521 or MA3550 or CM4650), MY1110 (MY3100, MY4600 (MY2100), CH4610 (CH1120), ENG3200 (MA2160 and CH1100 or CH1110 and PH2100), ENG2120 (MA2160 and PHE2100), CH4631 (CH4610 C or CM4610 C), CH4641 (CH4620 C), CH2410 (CH1120)