Faculty Involved with the Polymer Science & Engg Minor:
- Dr. Gerard Caneba (CM) caneba@mtu.edu
- Dr. Megan Frost (BE) mcfrost@mtu.edu
- Dr. Patricia Heiden (CH) paheiden@mtu.edu
- Dr. Julia King (CM) jaking@mtu.edu
- Dr. Bruce Lee (BE) bplee@mtu.edu
- Dr. Faith Morrison (CM) fmorriso@mtu.edu

Chemical Engineering Advising Email: cmadvise@mtu.edu
ChemSci 202M 906-487-4327

Advisors:
Ms. Katie Torrey
Dr. John Sandell

The minor in Polymer Science and Engineering prepares students for careers in the field of polymer science, polymer engineering, or polymer and composite manufacturing. This minor helps to meet the demand for graduates with a breadth of understanding of the chemical and mechanical properties of polymers, plastics, and composites. The students who are interested in this program are those who want to work in polymer-related organizations, including the largest chemical companies in the world, several of which are based in Michigan.

Required credits: 18cr
Required classes: See other side

Frequently Asked Questions

Q: How do I sign up for a minor?
Answer: There is a blue Curriculum Add/Drop Form you must fill out and have signed by the minor advisor. Changes are official for a semester when the form is submitted to the Registrar’s Office by Wednesday of week 2.

Q: How do I drop a minor?
Answer: The blue Curriculum Add/Drop Form is also for dropping a minor. You do not need any approval signatures; just fill it out and take it to the Registrar’s Office.

Q: Do credits from a minor double count towards my major?
Answer: Yes, they may double count for both your major and minor.

Q: Can I minor in more than one thing?
Answer: Yes, however each course can only be used towards one minor and only two minors can be printed on your diploma.

Q: When are the courses offered?
Answer: The course schedule is on the web: http://www.mtu.edu/registrar/ Note that some courses are only offered every other year, so it is best to plan ahead.
Student Name and ID Number

### Introduction to Polymers Course (Select one course, 3 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE 4300 Polymeric Biomaterials (3)</td>
<td></td>
</tr>
<tr>
<td>CM/CH 4610 Introduction to Polymer Science (3)</td>
<td></td>
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<tr>
<td>MY 4600 Introduction to Polymer Engineering (3)</td>
<td></td>
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</tbody>
</table>

### Chemistry or Engineering Courses (Select one set of classes, 3 - 6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CH 2410 Organic Chemistry I (3)</td>
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<tr>
<td>and CH 2420 Organic Chemistry II (3)</td>
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<tr>
<td>CM 3110 Transport/Unit Operations I (3)</td>
<td></td>
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<tr>
<td>ENG 3200 Thermodynamics/Fluid Mech (4)</td>
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<tr>
<td>MEEM 3201 Intro Fluid Mechanics &amp; Heat Transfer (4)</td>
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<tr>
<td>MY 3110 Materials Processing II (4)</td>
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</tbody>
</table>

### Elective Courses (Select remaining 9 - 12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BE 3300 Biomechanics I: Statics and Dynamics (3)</td>
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<tr>
<td>BE 4335 Smart Polymers (3)</td>
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<tr>
<td>CH/CM 4620 Polymer Chemistry (3)</td>
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<tr>
<td>CH 4710 Biomolecular Chemistry I (3)</td>
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<tr>
<td>CM 4060 UG Research in Polymer Engg (1-6)</td>
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<tr>
<td>CM/CH 4631 Polymer Sci Lab (2)</td>
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<tr>
<td>CM 4650 Polymer Rheology (3)</td>
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<tr>
<td>CM 4655 Polymer Rheology Lab (1)</td>
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<tr>
<td>MEEM 4170 Failure of Materials in Mech (3)</td>
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<tr>
<td>MEEM 4635 Design with Plastics (3)</td>
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<tr>
<td>MY 4155 Composite Materials (3)</td>
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<tr>
<td>XX xxxx Undergraduate Research (1-6)</td>
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</tbody>
</table>

### Total Credits Required: 18

Student Signature                                             Date                                Academic Advisor Signature                              Date