CHEMICAL ENGINEERING
(M.S.)

The Master of Science program is open to students with a bachelor's degree in engineering, and other mathematics-based sciences. The program is designed to accommodate those students employed in local industries, as well as full-time students, by offering a majority of its courses in the evening.

Admission Requirements

Regular Admission

Admission to this program is contingent upon admission to the Graduate School (http://bulletins.wayne.edu/graduate/general-information/admission). Regular admission requires a 3.0 grade point average or the equivalent as determined by the Department Graduate Officer.

Combined B.S./M.S. for Students with a B.S. in Chemistry

This program is designed for individuals who have earned a baccalaureate in chemistry from an accredited United States institution with a minimum grade point average of 3.0. Students are first admitted into the undergraduate program and are then eligible to earn both the B.S. in Chemical Engineering and, once admitted to the Graduate School, the M.S. degree. Evaluation of prerequisite requirements and applicable transfer credit will be determined by the departmental advisor.

A combined total of sixty-six credits is required: a minimum of thirty-four credits for the second baccalaureate and thirty-two credits for the master's degree. For additional information regarding specific course requirements, contact the departmental advisor: 313-577-3716.

This Master of Science degree is offered under the following options:

Plan A: Thirty-two credits including an eight credit thesis.

Plan C: Thirty-two credits of course work.

Both options require the following core courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHE 7100</td>
<td>Advanced Engineering Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CHE 7200</td>
<td>Advanced Transport Phenomena</td>
<td>3</td>
</tr>
<tr>
<td>CHE 7300</td>
<td>Advanced Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>CHE 7400</td>
<td>Advanced Kinetics and Reactor Design</td>
<td>3</td>
</tr>
</tbody>
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In addition to the above core-course requirement for the Master of Science degree (General), the Chemical Engineering MS Graduate Program also offers four technical options, which include Biomolecular Engineering, Nanotechnology, Process Engineering and Project Management, and Sustainable Engineering. These options have different core course requirements.

All course work must be completed in accordance with the regulations of the Graduate School (http://bulletins.wayne.edu/graduate/general-information/academic-regulations) and the College of Engineering (http://bulletins.wayne.edu/graduate/college-engineering/academic-regulations).