Department Contact
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Chemistry Education Office Website: https://chemistry.mit.edu/

Description
Chemistry majors use theory, mathematics, and experimentation to study matter and how it behaves. Chemists work with matter at a fundamental, molecular level to observe its composition, properties, and transformation into new substances. Chemistry significantly impacts many other fields including medicine, materials science, genetics, biology, pharmacy, food science, and environmental science. With a Bachelor of Science Degree in Chemistry or Chemistry and Biology, students are prepared to pursue an advanced degree and/or a career in many fields, including (but not limited to!) Chemistry, Biology, Law, Medicine, Consulting, Research, and Education.

Inside Course 5
5      Chemistry & Chemistry Flex w/ ChemFlex Option  Undergraduates: 30
5-7    Chemistry and Biology                             Undergraduates: 18

Introductory Classes
5.12   Organic Chemistry I
       Introduction to organic chemistry. Development of basic principles to understand the structure and reactivity of organic molecules. Emphasis on substitution and elimination reactions and chemistry of the carbonyl group. Introduction to the chemistry of aromatic compounds.

Course 5-Friendly UROP Areas
- Broad Institute (BI)

Get Involved with Course 5
- ClubChem
Skills
- Research skills and independent thinking
- Strong report-writing and analytical skills
- Safe handling of chemical materials and equipment
- Strong time management and organization

Possible Future Jobs
- **Formulation chemist:** Work mainly in a laboratory setting, adjusting chemical compounds and recording information to test and develop pharmaceuticals, health products, foods, cosmetics and cleaning products.
- **Lab technician/analyst:** Conduct analytical or lab-based tests for quality assurance, safety inspection, regulatory adherence, environmental impact or sample testing.
- **Research & Development chemist:** Create new products and technologies by conducting tests with chemicals, chemical compounds, and chemical processes.

Career Industry Examples

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<thead>
<tr>
<th>Consulting</th>
<th>Non-profit agency</th>
<th>Pharmaceuticals</th>
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<tbody>
<tr>
<td>Education</td>
<td>Research and development</td>
<td>Government</td>
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Product development

Sample Employers

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<tr>
<th>APEX Systems</th>
<th>Kronos Bio</th>
<th>Novartis</th>
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<tr>
<td>Biogen</td>
<td>Sage Therapeutics</td>
<td>Blueprint Medicines</td>
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<tr>
<td>Lockheed Martin</td>
<td>Silicon Therapeutics</td>
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