MINOR IN ENTREPRENEURSHIP AND INNOVATION

The Minor in Entrepreneurship and Innovation (E&I Minor) educates students to serve as leaders in the innovation economy with the knowledge, skills, and confidence to develop, scale, and deliver breakthrough solutions to real-world problems. They will be prepared to do so within a range of organizational contexts: an entrepreneurial start-up of their own, as key members of a founding team, or as an entrepreneurial member of a large organization.

Jointly offered by the Schools of Engineering and Management, the minor is designed as an interdisciplinary program with a coherent combination of conceptual and practical elements that draws on a wealth of prior educational activities in this domain.

Students who complete the E&I Minor will have developed knowledge and skills in:

- The innovation process from the conception of an initial invention and the problem it may solve to the refinement of the solution, to the considerations needed in the scale-up and delivery of the solution, to the launch of an appropriately funded entity.
- Communication, teamwork, decision making and leadership skills as well as the integrity and character that are necessary to engage with stakeholders and develop the invention into a real-world product or process.
- Strategies and methods to engage in rigorous iterations to identify and deeply understand societal needs/problems and develop robust, scalable solutions.
- Types of organizational models and designs for the delivery of innovations to the world.
- A range of global contexts for entrepreneurship and innovation, including variations in the interface with key stakeholders whose interests may enable or limit the potential effectiveness of innovation and entrepreneurship.

The minor requires five courses: a core curriculum of two E&I Foundations subjects and an elective subject in each of the three domains—E&I in Context, Leadership of Teams and Organizations, and E&I Experiential.

Core Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.359[J]</td>
<td>Innovation Engineering: Moving Ideas to Impact</td>
<td>12</td>
</tr>
<tr>
<td>15.373[J]</td>
<td>Venture Engineering</td>
<td>12</td>
</tr>
</tbody>
</table>

Electives

E&I in Context

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.086</td>
<td>Innovation and Commercialization of Materials Technology</td>
</tr>
</tbody>
</table>

Leadership of Teams and Organizations

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.96</td>
<td>Management in Engineering</td>
</tr>
<tr>
<td>6.915[J]</td>
<td>Leading Innovation in Teams</td>
</tr>
<tr>
<td>10.02</td>
<td>Foundations of Entrepreneurial Engineering</td>
</tr>
<tr>
<td>15.301</td>
<td>People, Teams, and Organizations Laboratory</td>
</tr>
<tr>
<td>15.3941</td>
<td>Entrepreneurial Founding and Teams</td>
</tr>
</tbody>
</table>

E&I Experiential

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.009</td>
<td>The Product Engineering Process</td>
</tr>
<tr>
<td>2.750[J]</td>
<td>Medical Device Design</td>
</tr>
<tr>
<td>2.752</td>
<td>Development of Mechanical Products</td>
</tr>
<tr>
<td>2.760</td>
<td>Global Engineering</td>
</tr>
<tr>
<td>3.042</td>
<td>Materials Project Laboratory</td>
</tr>
<tr>
<td>6.170</td>
<td>Software Studio</td>
</tr>
<tr>
<td>6.811[J]</td>
<td>Principles and Practice of Assistive Technology</td>
</tr>
<tr>
<td>6.813</td>
<td>User Interface Design and Implementation</td>
</tr>
<tr>
<td>10.807[J]</td>
<td>Innovation Teams</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>11.127[J]</td>
<td>Design and Development of Games for Learning</td>
</tr>
<tr>
<td>15.3781</td>
<td>Building an Entrepreneurial Venture: Advanced Tools and Techniques</td>
</tr>
<tr>
<td>15.3901</td>
<td>New Enterprises</td>
</tr>
<tr>
<td>15.3991</td>
<td>Entrepreneurship Lab</td>
</tr>
<tr>
<td>CMS.339</td>
<td>Virtual Reality and Immersive Media Production</td>
</tr>
<tr>
<td>CMS.610</td>
<td>Media Industries and Systems: The Art, Science and Business of Games</td>
</tr>
<tr>
<td>CMS.611[J]</td>
<td>Creating Video Games</td>
</tr>
<tr>
<td>EC.720[J]</td>
<td>D-Lab: Design</td>
</tr>
</tbody>
</table>

Total Units 51-60

1. Subject has prerequisites that are outside the program.
2. Students in the GEL1 Certificate program may satisfy the requirement by completing a combined 12 units of 6.902, 6.911, and 6.912.
3. With permission of the minor advisor, one 9- or 12-unit D-Lab subject meeting the criteria for this category may be substituted.

In special cases, other advanced project coursework may be substituted with the approval of the minor advisor. A minimum of three subjects (or 36 units) taken for the Entrepreneurship and Innovation minor cannot also count toward a student’s major or other minor.

For more information, contact the Innovation Initiative academic program manager, Liz Friedman (lizf@mit.edu), Room E70-1234, 617-715-2331.