ENGINEERING ENTREPRENEURSHIP, MINOR

Penn Engineering offers a Minor in Engineering Entrepreneurship (EENT), complementing the core engineering disciplines. This Minor is designed for students majoring in engineering and applied science. However, it is open to all University undergraduates subject to available class space. Non-engineering students should check with their home schools to determine their eligibility to take the EENT Minor. All courses for the EENT Minor must be taken for a grade (no Pass/Fail).

SEAS Second Major or Minor Option

Students interested in a second major (College students only) or minor with SEAS are required to meet with the Undergraduate Curriculum Chair from the major/minor department you wish to declare to discuss requirements and obtain approval on the Second Major or Minor form. The approved form must be returned to the SEAS Research and Academic Services Office, 109 Towne Building.

For more information: https://www.seas.upenn.edu/entrepreneurship/

Engineering Entrepreneurship Minor (EENT)

This Minor is designed for students majoring in engineering and applied science. However, it is open to all University undergraduates subject to class availability. Non-engineering students should check with their home school to determine their eligibility to take the EENT minor. All courses must be taken for grade (no Pass/Fail).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Course Units</th>
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</thead>
<tbody>
<tr>
<td>EAS 545</td>
<td>Engineering Entrepreneurship I</td>
<td>1</td>
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<tr>
<td>EAS 546</td>
<td>Engineering Entrepreneurship II</td>
<td>1</td>
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<tr>
<td>or EAS 549</td>
<td>Engineering Entrepreneurship Lab</td>
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Electives

Select four of the following: 4

- BE 470 Medical Devices
- BE 502 From Biomedical Science to the Marketplace
- BE 514/ IPD 504 Rehab Engineering and Design
- BE 515 Bioengineering Case Studies
- BE/CBE 562 Drug Discovery and Development
- CBE 400 Introduction to Product and Process Design
- CBE 459 Product and Process Design Projects
- EAS 203 Engineering Ethics
  or LGST 100 Ethics and Social Responsibility
  or HSOC 102 Bioethics
- EAS 507 Intellectual Property and Business Law for Engineers
- EAS 512 Engineering Negotiation
- EAS 549 Engineering Entrepreneurship Lab
- EAS 595 Foundations of Leadership
- ESE 400/540 Engineering Economics
- ESE 444/544 Project Management
- ESE 543 Human Systems Engineering
- FNCE 250 Venture Capital and the Finance of Innovation
- HCMG 867 Health Care Entrepreneurship
- IPD 509 Needfinding
- IPD 511 Creative Thinking and Design
- IPD 515 Product Design
- IPD 552 Problem Framing
- LAW 507 Introduction to Intellectual Property Law & Policy
  or LAW 677 Patent Law
- LGST 206/ MGMT 291/ OIDD 291 Negotiations
- LAW 528 ML: General Business Law
- LGST 222 Internet Law, Privacy and Cybersecurity
- MEAM/OIDD 415/IPD 515 Product Design
- MEAM/IPD 514 Design for Manufacturability
- MGMT 231 Entrepreneurial Venture Initiation
- MGMT 264 Venture Capital and Entrepreneurial Management
- MKTG 241/741 Entrepreneurial Marketing
- NETS 112 Networked Life
- OIDD 236 Scaling Operations in Technology Ventures: Linking Strategy and Execution
- OIDD 695 Semester in San Francisco Regional Seminar
- VIPR 120 Vagelos Integrated Program in Energy Research (VIPER) Seminar, Part I
  and Vagelos Integrated Program in Energy Research (VIPER) Seminar, Part II

Total Course Units 6

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2019 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.