Minor in Engineering Leadership Development

The Minor in Engineering Leadership Development prepares engineering students for life-long leadership roles in education, industry, and government. The minor complements the technical skills and knowledge students acquire during their academic careers to better prepare them for leadership and collaborative roles in their professional futures. Students in the A. James Clark School of Engineering earn a Minor in Engineering Leadership Development by completing coursework which focuses on communication, global awareness, project management, understanding oneself and working effectively with others.

Requirements for a Minor in Engineering Leadership Development

The Minor in Engineering Leadership Development consists of 16 credit hours. A maximum of six credits may also count toward the student’s major, and no more than six credits may be taken at an institution other than the University of Maryland College Park. All courses counted toward the minor must be completed with a “C-” or better and you must have a 2.0 overall minor GPA. The following courses are required:

- ENES 317: Introduction to Engineering Leadership (3 credits) [SP]
- ENCE 320: Engineering Project Management (3 credits)
- ENES 472: International Business Cultures in Engineering and Technology (3 credits) [CC]
- ENES 424: Engineering Leadership Capstone Course (3 credits)
- EDHI 338: Intergroup Dialogue (1 credit) [CC]
- ENES316: Global Perspectives of Leadership or Approved Elective (3 credits): Requires advisor approval; see website for suggestions: http://www.ilp.umd.edu/coursework

Note: ENES 317 and ENES 472 must successfully be completed before ENES 424. ENCE 320 can be taken as a co-requisite with ENES 424.

Minor in Engineering Leadership Development Advisors

Ramsey Jabaji, Assistant Director
Email: rjabaji@umd.edu
Phone: 301.405.0234

Jane Fines, Director
Email: jfines@umd.edu
Phone: 301.405.3857

Office of International and Leadership Programs
A. James Clark School of Engineering
University of Maryland
1131 Glenn L Martin Hall
College Park, MD 20742

(December 18, 2014)
When are the required courses offered?

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
<tr>
<td>ENES 317 (SP)</td>
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<tr>
<td>ENCE 320 (Must have 60 credits by the semester you enroll in this course) (Email Al Santos at <a href="mailto:asantos@umd.edu">asantos@umd.edu</a> to register for this course)</td>
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<td>(Typically)</td>
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<tr>
<td>ENES 472 (CC)</td>
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<tr>
<td>ENES 472 (abroad)</td>
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<td>x</td>
<td>(abroad every other summer)</td>
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<td>ENES 424 (Taken in your FINAL fall semester)</td>
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<tr>
<td>EDHI 338 (CC)</td>
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<tr>
<td>(to register for EDHI 338, follow the instructions in the Schedule of Classes on Testudo)</td>
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How will I choose my elective?

Courses listed below are examples of electives; this list is not exhaustive, and courses other than those listed below can count towards the elective requirement. The spirit of the Minor elective is to take an additional course in leadership that complements your other Minor coursework. You can identify another course you believe has a connection to leadership and request to your Minor advisor to be counted as your elective. Students will choose one three-credit elective in consultation with the minor advisor.

- BIOE 150 Applied Ethics and Public Policy in Bioengineering (SP)
- BMGT 360 Strategic Management of Human Capital
- BMGT363F Leadership and Teamwork in Organizations
- BMGT 390/ENES390H Systems Thinking for Managerial Decision Making (Restricted to Quest)
- COMM 200 Critical Thinking and Speaking (OC)
- COMM 324 Communication and Gender (UP)
- EDCP 220 Introduction to Human Diversity in Social Institutions (UP)
- EDCP 318 Applied Contextual Leadership
- EDCP 418 Special Topics in Leadership (Some sections offered as CC)
- ENCE 421 Legal Aspects of Engineering Practice
- ENCE 422 Project Cost Accounting and Economics
- ENCE 424 Communication for Project Managers
- ENEE 200 Social & Ethical Dimensions of Engineering Technology (IE)
- ENES316 Global Perspectives of Leadership for Engineering, Business, and Technology
- ENES460 Fundamentals of Technology Start-Up Ventures (Restricted to students in Hillman Entrepreneurs Program)
- ENES 462 Marketing High-Technology Products and Innovations (Restricted to students in Hinman CEOs or Hillman Entrepreneurs)
- ENES 464 International Entrepreneurship and Innovation (Restricted to students in Hinman CEOs or Hillman Entrepreneurs except in summer)
- ENES 480 Engineering Honors Seminar (1 credit)*
- ENES 481 Engineering Honors Seminar (1 credit)*
- ENES 498E Entrepreneurship in Chemical and Life Sciences
- ENME 426/BMGT385 Product Management/Operations Management
- ENME 466 Lean Six Sigma
- ENME 489Q Managing for Innovation and Quality
- GEMS 208 Special Topics in Leadership and Team Development (Restricted to students in Gemstone)
- PHIL 282 Free Will & Determinism (HU)
- PSYC 361 Survey of Industrial and Organizational Psychology
- PUAF 201 Leadership for the Common Good (HS or SP/I-Series)
- PUAF 214 Leading and Investing in Social Change: Redefining and Experimenting with Philanthropy (SP, I-Series)
- PUAF 215 Innovation and Social Change: Creating Change for Good
- PUAF 311 Women and Leadership
- PUAF 312/PUAF359G Leading to Get Results
- PUAF 313 Advocacy in the American Political System
- PUAF 388D Do Good Now (SP, I-Series)
- PUAF 388G Global Perspectives on Leading and Investing in Social Change
- SOCY 325 The Sociology of Gender
- SOCY 431 Principles of Organizations

*Course is worth 1 credit therefore students must find an additional 2 credits to fulfill the elective requirement.

(December 18, 2014)