# RECOMMENDED MECHANICAL ENGINEERING CURRICULUM FLOW CHART

Effective for Students Entering ME January 2010 and Later

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<th>Semesters</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
<th>V</th>
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<th>VII</th>
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<tbody>
<tr>
<td>I</td>
<td>Math 221 Calculus</td>
<td>Math 222 Calculus</td>
<td>Math 234 Calculus</td>
<td>ME 361 Thermo</td>
<td>ME 363 Fluids</td>
<td>ME 364 Heat Transfer</td>
<td>Elective Technical</td>
<td>ME 370 Energy Laboratory</td>
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<td>III</td>
<td>Intr Egr 101 or Intr Egr 102</td>
<td>EMA 201 Statics</td>
<td>ME 240 Dynamics</td>
<td>ME 307 Materials Lab</td>
<td>ME 340 Dynamic Systems Lab</td>
<td>ME 368 Measurements Lab</td>
<td>ME 342 Machine Elements</td>
<td>ME 349 or ME 352 Design Projects</td>
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<td>V</td>
<td>Chem 103 General Chemistry</td>
<td>CS 302 Intro to Prog.</td>
<td>Elective Liberal</td>
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<td>VI</td>
<td>Chem 104 General Chemistry</td>
<td>Phys 202 General Physics</td>
<td>Elective Liberal</td>
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**Minimum Degree Credits Required = 128 (see note C)**

The letters appearing at the lower left refer to notes on the following page. The prerequisites for each class are listed at [http://www.engr.wisc.edu/me/courses/](http://www.engr.wisc.edu/me/courses/)

2/5/10
FLOW CHART SUBSCRIPTS
(Revised February 10 2010)

A. There are two options for the chemistry elective:
   Option 1—Chem 103, 4 credits and Chem 104, 5 credits
   Option 2—Chem 109, 5 credits. Note: If Chem 109 is taken, students may need free elective credits to meet the
   minimum number of credits (127) required for graduation. (See note C)

B. InterEgr 101 or InterEgr 102 (2 credits) or InterEgr 160 (3 credits) all satisfy the college requirement for introduction to
   engineering.

C. Students fulfilling their course requirements with fewer than 128 credits must take additional free-elective credits to
   comply with the 128 credit minimum graduation requirement.

D. LIBERAL STUDIES REQUIREMENTS: Students must take 15 credits that carry H, S, L, or Z timetable breadth
   designators. These credits must fulfill the following subrequirements:
   1. A minimum of 2 courses from the same department or program. At least 1 of these 2 courses must be designated as
      above the elementary level (I, A, or D) in the timetable.
   2. A minimum of 6 credits designated as humanities (H, L, or Z) in the timetable, and an additional minimum of 3
      credits designated as social studies (S or Z) in the timetable. Foreign Language courses count as H credits.
      Retroactive credits for high school language courses may not be used to meet the Liberal Studies requirement.
   3. At least 3 credits in courses designated as ethnic studies (lower case "e") in the timetable. These courses may help
      satisfy requirements D1 and D2 as well, but they only count once toward the total required.
      Note: Some courses may have "e" designation but not have H, S, L, or Z designation; these courses do not count
      towards the liberal studies requirement.

E. TECHNICAL ELECTIVES
   The Mechanical Engineering curriculum requires a total of 15 credits of technical electives. A minimum of 12 of the 15
   credits must be from formal courses. (A formal course is defined as a class which meets regularly in a lecture format to
   study a selected topic. The educational mission is assisted with homework and exams. Formal courses cannot be
   seminar, survey, or other similar courses.)
   A minimum of 6 (of the required 12) formal course credits must be for Mechanical Engineering courses with course
   numbers 400 or higher or for ME 351. (See note H).
   Up to 6 technical elective credits may be earned for formal classes in courses outside of the Mechanical Engineering
   Department. These courses may be engineering, mathematics, physics, chemistry, statistics, biology, or computer
   science courses numbered 400 and above. The courses listed below are also accepted as technical electives. Other
   courses may be accepted if approved by the Curriculum Committee in advance of taking the course:
   Comp Sci 354, 367  BSE 351, 364  EPD 374, 375
   Chemistry 341, 343, 345  CEE 311, 315, 316, 320, 325, 330, 355,  ISyE 323, 349
   Math 321, 322  356, 370, 375  MS & E 330, 332, 352, 370
   Physics 311, 321, 322, 325  CBE 320, 326  NEEP 305
   Statistics 311, 312, 333, 349, 351  ECE 320, 330, 340, 342, 352, 353,  Bmolchem 314, Physiol 335
   InterEgr 301  354, 355
   Up to 3 technical elective credits may be obtained for non-formal courses or activities such as outreach and independent
   study courses (ME 491, 492). Up to 1 credit of Cooperative Education (ME 001) can be counted for technical elective credit.

F. EPD155 fulfills the Comm A requirement. If your GER communications Part A is satisfied you are exempt from this
   requirement. This requirement can also be fulfilled with: Ag Journ 100, Com Arts 100, Engl 100, Engl 118, or IES 200.
   (See note C)

G. ME 306 and ME 307 shall be taken concurrently.

H. There are two options for the capstone design experience: ME 349 taken alone or ME 351 and ME 352 taken
   sequentially. Students completing ME 352 will satisfy the requirement for ME 349 and will receive 3 technical elective
   credits for ME 351.

I. A minimum grade of C is required in ME 240, ME 306, and ME 361.

SPECIAL NOTES
   ▪ Students in their last semester before graduation taking less than 12 credits (part-time status) must have the Dean’s
     permission to avoid probationary status.
   ▪ Advisor listing on your grades, file, etc. can be officially changed by going to Rm. 3182 ME.
   ▪ Problems and questions concerning this curriculum should be directed to: Student Services Staff, Rm. 3182 ME, or your
     Mechanical Engineering Advisor.
   ▪ Mechanical Engineering’s website is found at: http://www.engr.wisc.edu/me/