

Mechanical Engineering www.mecheng.ohio-state.edu
2007-2008

Name _____

Email: _____@osu.edu

| YEAR | AUTUMN | WINTER | SPRING |
|------|--|---|---|
| 1 | Math 151* (Calc & Analyc Geom)... 5 _____ Chem 121 (Gen Chem) 5 _____ Engr 181 (Intro to Engr I) 3 _____ Engr 100.12 (Engr Survey)..... 1 _____ | Math 152 (Calc & Analyc Geom) 5 _____ Chem 125 (Chem for Engr) 4 _____ Physics 131 (Partcls & Motion) 5 _____ | Math 153 (Calc & Analyc Geom) 5 _____ Engr 183 (Intro to Engr II)..... 3 _____ Physics 132 (Electrcy & Magntsm) 5 _____ |
| 2 | Math 254 (Calc & Analyc Geom) 5 _____ Physics 133 (Elctrdynmc & Quant) . 5 _____ ME 410 (Statics) 4 _____ | Math 415 (Ord Part Dff Equat) 4 _____ ME 430 (Dynamics)..... 4 _____ MSE 205 (Intro to MSE) 3 _____ | ME 250 (Num Mthds & Anlys ME).... 4 _____ ME 420 (Intro Strength Materials) 4 _____ ME 501 (Thermodynamics) 4 _____ ECE 300 (Electrical Circuits) 3 _____ |
| 3 | ME 481 (Sys Dynamics & Vibs) 3 _____ ME 502 (Thermodynamics II) 3 _____ ME 503 (Fluid Dynamics I)..... 3 _____ ISE 311 (Manufacturing Engr) 3 _____ | ME 504 (Fluid Dynamics II) 3 _____ ME 561 (Fail Mds, Stres Anlys, Fail Prev). 5 _____ ECE 320 (Elec Devices & Controls) . 3 _____ ISE 504 (Engr Econ Anlys)..... 3 _____ | ME 482 (Sys Dynms & Electromech) 4 _____ ME 510 (Heat Transfer) 3 _____ ME 553 (Knmtns Dymn of Machinery) 4 _____ ME 562 (Dsgn Selct Mach Elem I).... 3 _____ |
| 4 | ME 563 (Dsgn Selct Mach Elem II)... 3 _____ ME 570 (ME Measurements) 5 _____ T.E..... 3 _____ T.E..... 3 _____ | ME 571 (Prin of Automatic Control)... 4 _____ ME 564 (Sr Dsgn Group Project)..... 4 _____ ME 512 (Fluid Mech & Heat Trans Lab).... 2 _____** T.E..... 3 _____ | ME 581 (ME Lab) 4 _____ ME 578 (Sr Program Review)..... 0 _____ T.E..... 3 _____ T.E..... 3 _____ |

GENERAL EDUCATION (35 hours)

TECHNICAL ELECTIVES (45 17 hrs)**

English & Communication Skills (10)
 A. English 110 (5) _____
 B. Second Writing Course
367. (5) _____

Ethics
 (Your ethics course may **also** count for either a Social Science course or an Arts & Humanities course, depending on the ethics course that you choose.)
 _____ (5) _____
Check one: This also counts as a
 Social Science (Ethics Group 1).
 Arts & Humanities (Ethics Group 2).

Social Science (5 – 10)
 _____ () _____
 _____ () _____

Historical Study (5 – 10)
 _____ () _____
 _____ () _____

Arts & Humanities (5 – 10)
 _____ () _____
 _____ () _____

TOTAL = 25 hrs.

NOTE: Foreign language is not required for engineering students. However, if you are interested in foreign language courses, please see the back of this sheet or speak to your advisor to learn how these courses can fulfill some of your GEC requirements.

Diversity Experience
 (Your diversity course will **also** count for either a second writing course, a Social Science course, or an Arts & Humanities course, depending on the diversity course that you choose.)
 _____ (5) _____
Check one: This also counts as a
 Second Writing Course.
 Social Science.
 Arts & Humanities.

Concentration:
 (Check one or more.)

- Applied Mechanics
- Automotive Engineering
- Biomechanical Systems
- Design & Manufacturing
- Dynamics, Vibrations, & Controls
- Energy Systems
- Nuclear Engineering
- Research / Advanced Studies

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|------------------------------|---------------|-----|
| ME Required Coursework | 442 | 140 |
| General Education Curriculum | 35 | |
| Technical Electives | 45 | 17 |
| Total Credit Hours | 192 | |

* All students must satisfy the credit hour minimum (48 credit hours) for math and basic sciences. Students with high math or science placements (i.e. Math 161 without "EM" or "K" credit for Math 151) and transfer students should consult with the ME academic advisors to ensure this minimum is met. Such students may be required to take extra coursework to meet graduation requirements.

** The technical elective program rules and course choices can be found on the Mechanical Engineering web page and also in the ME Undergraduate Student Handbook. **Due to the temporary cancellation of ME 512, students are required to take 2 additional credit hours from the approved ME Technical Elective list.**

Formal application to the major is required. Pre-requisite courses to the major are English 110 and the SPHR courses listed below. In order to be eligible to apply to the major students must have a minimum 2.00 CPHR and SPHR; however, these minimums do not guarantee acceptance to the major. *Acceptance into the Mechanical Engineering major is limited to 200 students per year and is competitive based on a student's SPHR.* Email meadvisor@osu.edu for more information. SPHR = CUMULATIVE GPA in Chem 121, 125; Physics 131 and 132; Engineering 181 and 183; Math 151-153 and 254; ME 410, or their equivalents.