ME Undergraduate Curriculum (2004-2006)

Rev. 7, 9/13/2005

FRESHMAN

Fall	CHEM 1310 Chemistry 1 3-3-4	MATH 1501 Calculus 1 (Minimum Grade C) 4-0-4	History HIST 2111, HIST 2112, POL 1101, INTA 1200 or PUBP 3000 (Soc Scien, See Note 4) 3-0-3	Wellness HPS 1040, HPS 1062 HPS 1063 or HPS 1064 X-X-2	ENGL 1101 English Composition 1 3-0-3	= 16 hrs
Spring	PHYS 2211 Physics 1 3-3-4 MATH 1502*	MATH 1502 Calculus 2 (Minimum Grade C) 4-0-4 MATH 1501	CS 1371 Introduction to Computing 3-0-3	ME/AE/CEE 1770 Engineering Graphics (See Note 6, No W's) 2-3-3 MATH 1501*	ENGL 1102 English Composition 2 3-0-3 ENGL 1101	= 17 hrs

SOPHOMORE

Fall	PHYS 2212 Physics 2 3-3-4 PHYS 2211	MATH 2401 Calculus 3 (Minimum Grade C) 4-0-4 MATH 1502	ME 2016 Computing Techniques 3-0-3 MATH 1502, CS 1371	ME 2110 Creative Dec. & Design (See Note 6, No W's) 2-3-3 ME/AE/CEE 1770 ME 2211*, ME 2016*	ME 2211 Introduction to Mechanics 3-0-3 PHYS 2211, MATH 1502	= 17 hrs
Spring	ECE 3710 Circuits & Electronics 2-0-2 PHYS 2212	MATH 2403 Differential Equations (Minimum Grade C) 4-0-4 MATH 1502	ME 2202 Dynamics of Rigid Bodies 3-0-3 ME 2211	MSE 2001 Engineering Materials 3-0-3 CHEM 1310	Science Elect. CHEM 1311 & 1312, BIOL 1510, BIOL 1520, EAS 1600, EAS 1601 or PHYS 2213 X-X-3	= 15 hrs

JUNIOR

Fall	ECE 3741 Instrument & Electronics Lab 0-3-1 ECE 3710	ME 3015 System Dynamics & Control 4-0-4 ME 2202, MATH 2403 ECE 3710	ME 3201 Mechanics of Materials 3-0-3 ME 2211, MSE 2001, MATH 2403*	ME 3322 Thermo-dynamics 3-0-3 ME 2211, MATH 2403	ME 3340 Fluid Mechanics 3-0-3 ME 2202, ME 3322*	Economics ECON 2100, 2105 or 2106 (Soc Scien, See Note 5) 3-0-3	= 17 hrs
Spring	ECE 3301 Energy Conversion & Mechatronics 1-2-2 ECE 3710	ME 3056 Experimental Method Lab (See Note 6, No W's) 1-2-2 ME 3201, ME 3015, MATH/ISYE 3770, ME 3345*	ME 3180 Machine Design 3-0-3 ME/AE/CEE 1770, ME 2110, ME 3201	ME 3345 Heat Transfer 3-0-3 ME 3340, MATH 2403	ISYE 3025 Engineering Economics 1-0-1 Economics (ECON 2100, 2105 or 2106)	MATH/ISYE 3770 Statistics 3-0-3 MATH 2401	= 14 hrs

SENIOR

Fall	ME 4053 ME Systems Lab (See Note 6, No W's) 1-2-2 ME 3056, ME 3345, MATH/ISYE 3770	ME 4210 Manufacturing Processes & Engineering 3-0-3 ME 3345, MATH/ISYE 3770	ME 4315 Energy System Analysis & Design 3-0-3 ME 3345, ISYE 3025	Humanities Elective 3-0-3	Social Science Elective 3-0-3		= 14 hrs
Spring	ME 4055 Experimental Engineering Lab 0-3-1 ME 4053	ME 4182 Capstone Design (See Note 6, No W's) 1-6-3 ME 2110, ME 3180 ME 4210, ME 4315	Technical Elective (See Note 2) 3-0-3	Technical Elective (See Note 2) 3-0-3	Ethics HTS 2084, INTA 2030, PST 3105, PST 3109, PST 3127 or PST 4176 (See Note 1) 3-0-3	Social Science Or Humanities Elective (See Note 3) 3-0-3	= 16 hrs

Pre-Reqs and Co-Reqs*

126 Total Hrs

NOTES:
1. PST classes are humanities, HTS & INTA classes are social sciences.
2. Technical Electives may be selected from any course offered in the Colleges of Engineering, Science, or Computing at the 3000 or 4000 level excluding Psychology (PSYC) and Applied Physiology (APPH). This course cannot not substantially overlap an undergraduate course which you intend to include in your degree petition.
3. If Ethics is humanities, social science elective is required for this class. If Ethics is social science, humanities elective is required for this class.
4. No credit is awarded for both INTA 1200 and POL 1101.
5. No credit is awarded for (ECON 2100 and ECON 2105) or (ECON 2100 and ECON 2106).
6. ME 1770, 2110, 3056, 4053 and 4182 cannot be dropped without permission from the advisor.

GRADUATION REQUIREMENTS:
1. No PASS/FAIL classes allowed.
2. Minimum grade of D required for each class except as noted.
3. Overall GPA must be greater than 2.0.
4. Overall ME GPA must both be greater than 2.0.
5. No more than 3 withdrawals (W's) are allowed in ME classes except for documented and approved reasons.