MECHANICAL ENGINEERING PLAN OF STUDY 09-10

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SEMESTER 1

GE 100 Fundamentals of Engineering	3 Cr.
GE 199 Engineering Seminar	0 Cr.
CORE 110 The Human Experience	5 Cr.
MATH 131 Analytic Geom. & Calc. I	4 Cr.
PHYS 141 Mechanics and Heat	3 Cr.
PHYS 141L Experimental Physics I	1 Cr.
PE 100 Healthy Lifestyles	1 Cr.

SEMESTER 2

ME 104 Computer-Aided Design	3 Cr.
GE 109 Mechanics-Statics	3 Cr.
CORE 115 The Human Experience	5 Cr.
MATH 132 Analytic Geom. & Calc. II	4 Cr.
PHYS 142 Electricity, Mag., & Waves	3 Cr.

SEMESTER 3

ME 209 Mechanics-Dynamics	3 Cr.
ECE 281 Fund. of Elec. Engineering	3 Cr.
CHEM 115 Essentials of Chemistry	4 Cr
MATH 253 Calculus III	4 Cr.
THEO 200 The Christian Tradition	3 Cr.

SEMESTER 4

ME 215 Mechanics of Materials	3 Cr.
ME 225 Computer Applications	3 Cr.
ME 252 Materials Science	3 Cr.
MATH 234 Diff. Equations & Lin. Alg.	4 Cr.
MATH 240 Statistics	3 Cr.

SEMESTER 5

ME 333 Mechanical Measurement Lab	4 Cr.
ME 353 Manufacturing Processes	4 Cr.
ME 370 Thermodynamics I	3 Cr.
ME 373 Fluid Mechanics	3 Cr.
Specified Elective	3 Cr.

SEMESTER 6

ME 332 Mechatronics	3 Cr.
ME 362 Mechanisms	3 Cr.
ME 374 Heat Power Lab	1 Cr.
ME 376 Heat Transfer	3 Cr.
GE 301 Fin. & Ethical Decisions in Engr.	3 Cr.
Specified Elective	3 Cr.

SEMESTER 7

ME 463 Machine Design I	3 Cr.
ME 470 Thermodynamics II	3 Cr.
GE 497 Senior Design Project I	3 Cr.
Specified Electives	6 Cr.

SEMESTER 8

GE 498 Senior Design Project II	2 Cr.
Specified Elective	9 Cr.
Free Elective	3 Cr.

Total Credits required for graduation = 130 credits

Specified Electives*:* This elective requirement must include 3 credits of Foreign Language/Diversity, 6 credits of Humanities/Social Science/Theology, and 12 credits of Mechanical Engineering Electives.

Cooperative Education: GE 481 through GE 483 credits may be used to satisfy the Free Elective requirement. Courses GE 481-483 are graded S/U only.

Free Elective: Students are encouraged to select a course aligned with enhancing their life goals. A public speaking course is recommended for individuals who have not had a formal course in this subject. A speech course should be selected from COMM 140, 145, or 243.

Mechanical Engineering Electives: Twelve (12) credits of mechanical engineering courses are to be selected to provide areas of individual study emphasis. Up to three (3) credits may be substituted for students taking an approved technical concentration outside the College of Engineering. Only three (3) hours of ME 499 course credits may be applied as an ME elective.