

MECHANICAL ENGINEERING Curriculum Sheet -- Effective Fall 2008

Semester 1	Credit	Grade
ENG-101 English I	4	
MTH-181 Calculus I	4	
CHM-261 General Chemistry I	4	
CHM-266 General Chemistry Lab I	1	
ESC-120 Intro. to Engineering Design**	2	
ESC-100 New Student Orientation*	1	

Subtotal => 16

Semester 2	Credit	Grade
ESC-102 Tech Writing & Prof Comm	3	
MTH-182 Calculus II	4	
PHY-241 University Physics I	5	
ESC-152 Programming with Matlab	3	
ESC-270 Material Science	3	

Subtotal => 18

Semester 3	Credit	Grade
ESC-250 Differential Equations	3	
PHY-242 University Physics II	5	
ESC-201 Statics	3	
IME-250/251 Matl Proc & Metrology w/Lab	4	
MTH-283 Multivariable Calculus	2	

Subtotal => 17

Semester 4	Credit	Grade
MCE-255 CAE Design	4	
ESC-350 Lin. Algebra & Num Methods	3	
ESC-202 Dynamics	3	
ESC-211 Strength of Materials	3	
ESC-315 EE Concepts	3	

Subtotal => 16

Semester 5	Credit	Grade
MCE-305 Kinematics & Dynamics of Machinery	4	
ESC-301 Fluid Mechanics	3	
ESC-321 Thermodynamics I	3	
MCE-371 Vibrations	4	
ESC-310 Engineering Statistics & Probability	3	

Subtotal => 17

Semester 6	Credit	Grade
MCE-324 Introduction to Heat Transfer	4	
MCE-367 Machine Design I	4	
MCE-380 Instru. & Meas. Lab	3	
MCE-421 Applied Thermodynamics	4	
GenEd Elective	3	

Subtotal => 18

Semester 7	Credit	Grade
MCE-450 Design Project I	2	
ESC-282 Engineering Economy	3	
MCE-441 Intro to Linear Controls	4	
PHL-215 Engineering Ethics	3	
MCE-48X Lab Elective	3	
GenEd Elective	3	

Subtotal => 18

Semester 8	Credit	Grade
MCE-451 Design Project II	2	
MCE-4XX Tech Elective	4	
MCE-4XX Tech Elective	4	
GenEd Elective	3	
GenEd Elective	3	

Subtotal => 16

Min. total number of credits for degree => 136

*Not required for transfer students

**Required for freshpersons and transfer students admitted to Engineering College Fall 2003 and after

Revised 5/11/2009