

**University Of Maryland Baltimore County
Mechanical Engineering
Bachelor of Science Degree Requirements**

Freshman Year

Fall		Spring	
GEP or GFR	3 Cr	CHEM 102 Chemistry II	3 Cr
CHEM 101 Chemistry I	4 Cr	CHEM 102 L Chemistry II Lab	2 Cr
MATH 151 Calculus I	4 Cr	MATH 152 Calculus II	4 Cr
ENES 101 Intro. Eng. Sci.	3 Cr	ENME 110 Statics	3 Cr
ENGL 100 Composition	3 Cr	PHYS 121 Physics I	4 Cr
Total	17 Cr.	Total	16 Cr

Sophomore Year

GEP or GFR	3 Cr.	ENME 221 Dynamics	3 Cr.
MATH 251 Mult. Var. Calculus	4 Cr.	MATH 225 Diff. Equations	3 Cr.
STAT 355 Stat. for Sci. and Engr.	4 Cr.	ENME 217 Eng. Thermodyn.	3 Cr.
ENME 220 Mech. Materials	3 Cr.	ENME 204 Intro. Design w/ CAD	3 Cr.
PHYS 122 Physics II	4 Cr.	PHIL 251(rec GFR) Ethical Issues in Science, Engr. and Inf. Tech.	3 Cr.
Total	18 Cr.	Total	15 Cr.

Junior Year

ENGL 393 Tech. Writing	3 Cr.	GEP or GFR	3 Cr.
ENME 303 Computer Prog. And Numerical Solution of Diff. Eq.	3 Cr.	ENME 304 Machine Design	3 Cr.
ENME 320 Fluid Mechanics	3 Cr.	ENME 321 Transfer Processes	3 Cr.
ENME 302 Prin. of Elect. Engr.	4 Cr.	ENME 332L Solid Mech. and Materials Lab	3 Cr.
ENME 301 Structure and Properties of Engr. Materials	3 Cr.	ENME 360 Vibrations	3 Cr.
Total	16 Cr.	Total	15 Cr.

Senior Year

GEP or GFR	6 Cr.	GEP or GFR	6/7 Cr.
ENME 403 Automatic Controls	3 Cr.	ENME 482L Vib./Control Lab.	2 Cr.
ENME 432L Fluids/Energy Lab	2 Cr.	ENME 444 Mech. Engr. Systems Design	3 Cr.
ENME 4XX Technical Elective	3 Cr.	ENME 4XX Design Elective	3 Cr.
Science/Technical Elective	3 Cr.	Total	14-15 Cr.
Total	17 Cr.		

Total Credit Hours= 129

(8/14/09)