

CALIFORNIA STATE UNIVERSITY, LONG BEACH
UNDERGRADUATE CURRICULUM GUIDE
B.S. in Engineering, Materials Engineering Option (Code: 3-4352)
2006-2007 AY (136 Units Total)

FRESHMAN YEAR

FIRST SEMESTER

<u>COURSE</u>	<u>TITLE</u>	<u>UNITS</u>
UNIV 100	Univ. in your Future	1
MAE 172	Engineering Graphics I	3
MATH 122*	Anal. Geom. & Calc. I (B2)	4
CHEM 111A	General Chemistry	5
GEN ED*	Gen. Education (A1)	3
ENGR 101	Intro. to Engineering	1

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SECOND SEMESTER

<u>COURSE</u>	<u>TITLE</u>	<u>UNITS</u>
MAE 272	Intro. to Manufacturing Proc.	2
PHYS 151*	Mech/Heat & Sound (B1)	4
MATH 123*	Anal. Geom. & Calc. II (B3)	4
GEN ED*	General Education (D.1a)	3
CHEM 111B	General Chemistry	5

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SOPHOMORE YEAR

CE 205	Anal. Mech. 1	3
PHYS 152	Elec. & Magn.	4
MATH 224	Anal. Geom. & Calc. III	4
EE 211	Electric Circuits I	3
EE 211L	Electric Circuits Laboratory	1
GEN ED*	General Education (A3)	3

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GEN ED*	General Education (C1,D.1b)	6
MAE 205	Computer Meth. in M.E.	2
EE 320	Solid State Electronic Devices	3
PHYS 154	Mod. Physics & Light	3
MATH 370A	Applied Mathematics I	3

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JUNIOR YEAR

CHE 200	Chemical Engr. Fund.	3
ECON 300*	Fund. of Economics (D2)	3
MAE 322	Engr. Matls. & Matl. Proc.	3
MAE 371	Analytical Mech. II	3
MAE 330	Engr. Thermodynamics I	3
MAE 373	Mech. of Def. Bodies	3

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CHE 415	Occup. & Envr. Safety Engr.	3
GEN ED*	General Education (A2)	3
GEN ED*	General Education (B1a)	3
MAE 374	Mech. Prop. Material	1
MAE 375	Kinematics & Dyn. of Mech.	4
MAE 361	Matls & Properties Lab	1

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SENIOR YEAR

GEN ED*	General Education	6
Tech. Elective		5
MAE 490	Special Topics in ME	3
MAE 409	Mod. Comp. Asp. in ME	3

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CE 406	Engr. Econ. & Admin.	3
Tech. Elective		6
MAE 459	Professional Practice	1
GEN ED*	General Education	6

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***General Education:** A minimum of nine (9) units of Upper-Division (UD) are required. Six (6) units must be Upper-Division Interdisciplinary (UDI). A minimum of nine (9) units of Capstone courses (▲), with three units of Global (●) and three (3) units of Human Diversity (◆) are required. Please consult a General Education advisor.

The above 136 units minimum program allows for a 6-unit General Education waiver (3 units in Category D2, and 3 in either B4, C3 or E). All IC and Category A classes must be taken for a letter grade. Students are advised to plan their programs with care in order to meet all departmental and General Education requirements within 136 units.