

6-Year UNDERGRADUATE CURRICULUM PLAN
Bachelor of Science in Mechanical Engineering (Code: MAE_BS01)
Effective 2003-2004 Catalog Year

<u>1st YEAR</u>			<u>2nd YEAR</u>		
<u>FIRST SEMESTER</u>			<u>SECOND SEMESTER</u>		
<u>COURSE</u>	<u>TITLE</u>	<u>UNITS</u>	<u>COURSE</u>	<u>TITLE</u>	<u>UNITS</u>
UNIV 100	Intro to the University	1	PHYS 151	Mech. & Heat (B1b)	4
MAE 172	Engineering Graphics	3	ENGR 101	Intro to Engineering	1
MATH 122	Calculus I (B2)	4	GEN ED*	General Education (A2)	3
GEN ED*	General Education (A1)	3	GEN ED*	General Education (D1b)	3
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		11			11
<u>2nd YEAR</u>			<u>3rd YEAR</u>		
MATH 123	Calculus II (B2)	4	MATH 224	Anal. Geom. & Calc. III	4
CHEM 111A	General Chemistry (B1b)	5	PHYS 152	Elec. & Magnetism (B1b)	4
GEN ED*	General Education (D1a)	3	GEN ED*	General Education (C1)	3
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		12			11
<u>3rd YEAR</u>			<u>4th YEAR</u>		
CE 205	Anal Mech I (Statics)	3	MAE 205	Computer Methods in ME	2
EE 211	Electric Circuits I	3	MAE 322	Engr Matls & Matls Processes	3
EE 211L	Electric Circuits Laboratory	1	MATH 370A	Applied Mathematics	3
MAE 272	Intro to Manufacturing Processes	2	ECON 300*	Fundamentals of Econ. (GE D2)	3
GEN ED*	General Education (A3)	3			-----
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		12			11
<u>4th YEAR</u>			<u>5th YEAR</u>		
MAE 330	Engr Thermodynamics I	3	MAE 336	Power Plant Design	3
MAE 373	Mech. of Deformable Bodies	3	MAE 371	Anal Mech II (Dynamics)	3
MAE 300	Engr Instrumentation & Meas.	2	MAE 361	Materials & Properties Lab	1
GEN ED*	General Education (UDIC1)	3	GEN ED*	General Education (UDIC2)	3
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		11			10
<u>5th YEAR</u>			<u>6th YEAR</u>		
MAE 337	Thermal Engr Lab	2	MAE 375	Kinematics & Dynamics of Mech	3
MAE 305	Numerical Methods in ME	3	MAE 376	Modeling & Anal Dyn Sys	3
CE 335	Fluid Mechanics	3	MAE 431	Heat Transfer Systems Design	3
CE 336	Fluid Mechanics Lab	1	GEN ED*	General Education	3
GEN ED*	General Education	3			-----
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		12			12
<u>6th YEAR</u>					
MAE 409	Mod Comp Aspects in ME	3	MAE 459	Professional Practice Seminar	1
MAE 471	Anal Desn Mech Comp	3	MAE 472	Design of ME Systems	3
MAE 476	Mechanical Control Systems I	3	MAE 490	Special Topics in MAE	3
GEN ED*	General Education	3	CE 406	Engineering Economics	3
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		12			10

***General Education:** A minimum of nine (9) units of Upper-Division (UD) are required. Six (6) units must be Upper-Division Interdisciplinary (UDI) in one particular THEME (please see the College of Engineering section in the University Catalog). A minimum of nine (9) units of Capstone courses (▲), with three (3) units of Global (●) and three (3) units of Human Diversity (◆), are required. Please consult a General Education advisor.

The above 135 units minimum program allows for a six (6) unit General Education waiver (3 units in category D2, and 3 in B1a or 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 135units.

Revised 10 /15/03, CSULB