

## Sample Five Year Program

California State University, Northridge  
College of Engineering and Computer Science  
BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING  
FIVE-YEAR CURRICULUM PLAN

Fall Semester

Spring Semester

FIRST YEAR			
Chem. 100 - Principles of Chemistry	3	ME 101/L – Intro. To Mech. Eng.	2
Math 102 - College Algebra	3	Math 104 - Trig. & Geometry	3
GE - Comp. Cultural Studies (LD)	3	Chem. 101/L - Gen. Chem. & Lab	5
GE – Fresh. Comp. (e.g. ENGL 155)	3	GE - Oral Comm. (e.g. COMS 151)	3
<b>Total</b>	<b>12</b>	<b>Total</b>	<b>13</b>

SECOND YEAR			
ME 186/L – Computer-Aided Design	2	ME 209 - Programming for ME	1
Math 150A - Calculus I	5	ME 286 - Mechanical Eng. Design	2
GE - Arts & Humanities (LD)	3	Math 150B - Calculus II	5
GE - Social Science (LD)	3	Phys 220 A/L - Mechanics & Lab	4
GE - American Gov (e.g. POLS 155)	3	GE - U.S. History (e.g. HIST 270)	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>

*Upper Division Writing Proficiency Exam should be taken at the start of the junior year.*

THIRD YEAR			
ME 309 - Num. Analysis Eng. Syst.	2	ME 370 - Thermodynamics	3
Math 250 - Calculus III	3	Math 280 - Applied Diff. Equations	3
Phys 220B/L - Elec. & Mag. & Lab	4	CE 240 - Eng. Statics	3
MSE 227/L - Eng. Materials & Lab	4	ECE 240/L - Elec. Eng. Fund. & Lab	4
<b>Total</b>	<b>13</b>	<b>Total</b>	<b>13</b>

FOURTH YEAR			
ME 335/L - Mech. Measurements	2	ME 330 - Machine Design	3
ME 375 - Heat Transfer	3	ME 386/L - C-A Analysis & Design	3
AM 316 - Eng. Dynamics	3	ME 390 - Fluid Mechanics	3
CE 340 - Strength of Materials	3	AM 317 - Mechanics Lab	1
GE - Arts & Humanities (UD)*	3	MSE 304 - Eng. Economic Analysis	3
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>13</b>

FIFTH YEAR			
ME 486A - Senior Design in ME I	2	ME 486B - Senior Design in ME II	2
ME 384 - Systems Dynamics	3	ME 435/L - Mechatronics & Lab	3
ME 491 - Thermal-Fluids Lab	1	ME Senior Electives (2)	6
ME Senior Electives (2)	6	GE - Comp. Cultural Studies (UD)*	3
<b>Total</b>	<b>12</b>	<b>Total</b>	<b>14</b>

\* One of these courses needs to satisfy the Information Competency requirement

Total number of units of Senior Electives: 12

Total number of units in Major: 99 (MATH 102/104 & CHEM 100 do not count as credit for the degree)

Total number of units for Degree: 126