General Engineering – Mechanical Concentration

MECHANICAL Concentration						5-19-
FALL	***Freshman***			***SPRING***	***Freshman***	
MATH 121	Calculus with Analytical Geom. I	3		MATH 122	Calculus with Analytical Geom. II	3
ECON 101	EPPS	3		CHEM 122/L	General Chemistry II	4
CHEM 121/L	General Chemistry I	4		PHYS 121/L	General Physics I	4
ENGR 101	Intro. to Engineering I	1		ENGR 102	Intro. to Engineering II	1
WRIT 102	Research Writing	3		LIT 104	LIT 104, 201, 202, 207 or 270	3
CORE 113	First Year Seminar	3		CORE 104	Community Enrichment	0
CORE 103	Community Enrichment	0		ENGR 193	Freshman Engineering Seminar	0
ENGR 192	Freshman Engineering Seminar	0		RLST 105	Franciscan Goals for Today	3
	Total	**17**			**Total**	**18**
FALL	***Sophomore***			***SPRING***	***Sophomore***	
MATH 221	Calculus III	3		MATH 306	Diff. Eqns. I	3
PHYS 122/L	General Physics II	4		PHIL 205	Philosophy	3
ENGR 210/L	Programming for Engineers	2		ENGR 293	Sophomore Engineering Seminar	0
ENGR 201	Engineering Statics	3		ENGR 202	Engineering Dynamics	3
ENGR 250	Solid Modeling & CAD	3		ENGR 325/L	Fundamentals of Electrical Engineering	4
ENGR 292	Sophomore Engineering Seminar	0		ENGR 315/L	Mechanics of Materials	3
HIST	History 100/200	3		ENGR 279	Sophomore Engin. Design for Service	1
	Total	**18**			**Total**	**17**
FALL	***Junior***			***SPRING***	***Junior***	
MATH 322	Linear Algebra	3		ENGR 335	Engineering Instrumentation	1
ENGR 301/L	Fluid Mechanics	4		CPSC 240	Applied Programming Lang.	1
ENGR 350	Material Science	3		ENGR 375	Heat Transfer	3
ENGR 321	Applied Engineering Thermodynamics	3		ENGR 393	Junior Engineering Seminar	1
EXAM 301	Writing Comp Exam	0		ENVE 421 or 422	Energy Conversion I or II	3
ENGR 392	Junior Engineering Seminar	0		DIV REQ	Diversity Requirement	3
FNAR	Fine Arts Elective	3		ENGR 435/L	Control Theory	4
				ENGR 379	Junior Engin. Design for Service	1
	Total	**16**			**Total**	**17**
FALL	***Senior***			***SPRING***	***Senior***	
PHIL/RLST	Philosophy or Religious Studies	3				
ENGR 425	Advanced Thermal and Fluid Systems	3		ENGR 410	Applied Finite Element and Volume Modeling	4
EPPS*	EPPS*	3		LANG	Language 102+	3
ENGR 492	Senior Engineering Seminar	0		EPPS*	EPPS*	3
ENGR 497	Capstone Design Proposal	1		CORE 407	Keystone Seminar	3
ENGR 415	Senior Lab	3		ENGR 493	Senior Engineering Seminar	0
ENGR 445	Mechanisms, Linkages and Design of	3		ENGR 498	Capstone Design	3
ENGR 427	Power & Thermal Systems Lab	1				
	Total	**17**			**Total**	**16**
EPPS* ECON 101, PLSC 100-200, PSYC 101, SOC 100-200						
(136 Total credits: 62credits ENGR; 32 credits Collateral; 42 General Education)						