

General Engineering – Computational Concentration

COMPUTATIONAL Concentration					5/10/2019
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	Fundamentals of Electrical Engineering	4
ENGR 292	Sophomore Engineering Seminar	0	ENGR 315/L	Mechanics of Materials	3
HIST 100/200	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	ENGR 375	Heat Transfer	3
ENGR 350	Material Science	3	ENGR 393	Junior Engineering Seminar	1
ENGR 321	Applied Engineering Thermodynamics	3	ENGR 410	Applied Finite Element and Volume	4
EXAM 301	Writing Comp Exam	0	DIV REQ	Diversity Requirement	3
ENGR 392	Junior Engineering Seminar	0	MATH 212/L	Approximation Methods I	4
FNAR	Fine Arts Elective	3	ENGR 379	Junior Engin. Design for Service	1
	Total	16		Total	17
FALL	Senior		SPRING	Senior	
PHIL/RLST	Philosophy or Religious Studies	3	MATH 312/L	Approximation methods 2	4
ENVE 313 or MATH 309	Modeling and Simulation or Mathematical modeling	3	LANG	Language 102+	3
EPPS*	EPPS*	3	EPPS	EPPS*	3
ENGR 492	Senior Engineering Seminar	0	CORE 407	Keystone Seminar	3
ENGR 497	Capstone Design Proposal	1	ENGR 493	Senior Engineering Seminar	0
ENGR 415	Senior Lab	3	ENGR 498	Capstone Design	3
CPSC 281	Algorithmic Programming	1			
CPSC 241	Applied Programming Languages	2			
ENGR 427	Power/Thermal Lab	1			
	Total	17		Total	16
EPPS* Econ 101, PLSC 100-200, PSYC 101, SOC 100-200					
(136 Total credits: 49 credits ENGR; 45 credits Collateral; 42 General Education)					