

# General Engineering, B.S.

4/18/18

MATH 121	Calculus with Analytical Geom. I	3	MATH 122	Calculus with Analytical Geom. II	3
CPSC 121	Intro. to Computer Program I	4	CHEM 122	General Chemistry II	4
CHEM 121	General Chemistry I	4	PHYS 121	General Physics I	4
ENGR 101	Intro. to Engineering I	1	ENGR 102	Intro. to Engineering II	1
ENGL 103	Engl. 103	3	ENGL 104	Engl. 104	3
CORE 113	First Year Seminar	3	CORE 104	Community Enrich.	0
CORE 103	Community Enrich.	0	ENGR 193	Freshman Engineering Seminar	0
ENGR 192	Freshman Engineering Seminar	0	RLST 105	Franciscan Goals for Today	3
	<b>Total</b>	<b>18</b>		<b>Total</b>	<b>18</b>
MATH 221	Calculus III	3	MATH 306	Diff. Eqns. I	3
PHYS 122	General Physics II	4	GETM1	Ethics	3
ECON 101	Epps	3	CORE 212	Comm. Global Well.	0
CORE 211	Personal Wellness	0	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
			ENGR 335	Engineering Instrumentation	2
	<b>Total</b>	<b>16</b>		<b>Total</b>	<b>18</b>
MATH 322	Linear Algebra	3	MATH 212	Approximation Methods I	4
ENGR 301	Fluid Mechanics	4	HIST 100/200	History 100/200	3
ENGR 350	Material Science	3	ENGR 375	Heat Transfer	3
ENGR 321	Applied Engineering Thermodynamics	3	ENGR 393	Junior Engineering Seminar	1
EXAM 301	Wr Comp Exam	0	TECH ELECT*	Technical Elective I	3
ENGR 392	Junior Engineering Seminar	0	TECH ELECT*	Technical Elective II	3
FNAR	Fine Arts Elective	3			
	<b>Total</b>	<b>16</b>		<b>Total</b>	<b>17</b>
PHIL 205	Philosophy	3	TECH ELECT*	Technical Elective IV	4
GETM3	Communication and Diversity	3	ENGR 498	Capstone Design	3
GETM4	Social Systems	3	LANG	Language 101	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
TECH ELECT*	Technical Elective III	3			
ENGR 427	Power/Thermal Lab	2			
	<b>Total</b>	<b>18</b>		<b>Total</b>	<b>16</b>

(137 Total credits: 43 credits ENGR; 13 credits Technical Electives; 42 credits Collateral; 39 General Education)

\*Technical Electives: Four (4) courses, minimum 13 credits total, such that at least one (1) is from Tech. Set 1, and one (1) is from Tech Set 2, and at least one course has an ENGR designation and one other has an ENGR or ENVE designation.

**Technical Set 1:** ENVE 313, MATH 309, MATH312/L, CPSC 343, CPSC 402, ENGR 410

**Technical Set 2:** ENVE 421, ENVE 422, ENGR 425, ENGR 435, ENGR 445