

# General Engineering – Aeronautics Concentration

AERONAUTICS Concentration					5-19-2021
<b>FALL</b>	<b>Freshman</b>			<b>SPRING</b>	<b>Freshman</b>
MATH 121	Calculus with Analytical Geom. I	3		MATH 122	Calculus with Analytical Geom. II
AVI110	Private Pilot Theory	3		AVI112	Private Pilot Lab
AVI111	Private Pilot Lab	1		PHYS 121/L	General Physics I
ENGR 101	Intro. to Engineering I	1		ENGR 102	Intro. to Engineering II
WRIT 102	Research Writing	3		LIT 104	LIT 104, 201,202,207 or 270
CORE 113	First Year Seminar	3		CORE 104	Community Enrichment
CORE 103	Community Enrichment	0		ENGR 193	Freshman Engineering Seminar
ENGR 192	Freshman Engineering Seminar	0		RLST 105	Franciscan Goals for Today
CHEM 121/L	General Chemistry I	4			
	<b>Total</b>	<b>18</b>		<b>Total</b>	<b>16</b>
<b>FALL</b>	<b>Sophomore</b>			<b>SPRING</b>	<b>Sophomore</b>
MATH 221	Calculus III	3		MATH 306	Diff. Eqns. I
PHYS 122/L	General Physics II	4		ENGR 293	Sophomore Engineering Seminar
ENGR 210/L	Programming for Engineers	2		ENGR 202	Engineering Dynamics
ENGR 201	Engineering Statics	3		ENGR 325	Fundamentals of Electrical Engineering
ENGR 250	Solid Modeling & CAD	3		ENGR 315/L	Mechanics of Materials
ENGR 292	Sophomore Engineering Seminar	0		CHEM 122/L	General Chemistry II
ECON 101	EPPS	3		ENGR 279	Sophomore Engin. Design for Service
	<b>Total</b>	<b>18</b>		<b>Total</b>	<b>18</b>
<b>FALL</b>	<b>Junior</b>			<b>SPRING</b>	<b>Junior</b>
MATH 322	Linear Algebra	3			
ENGR 301/L	Fluid Mechanics	4		ENGR 335	Engineering Instrumentation
ENGR 350	Material Science	3		ENGR 375	Heat Transfer
ENGR 321	Applied Engineering Thermodynamics	3		ENGR 393	Junior Engineering Seminar
EXAM 301	Writing Comp Exam	0		ENGR 445	Mechanisms, Linkages and Design of Machine Elements
ENGR 392	Junior Engineering Seminar	0		DIV REQ	Diversity Requirement
PHIL 205	Philosophy	3		ENGR 435/L	Control Theory
CPSC241	Applied Programming Languages	2		ENGR 379	Junior Engin. Design for Service
	<b>Total</b>	<b>18</b>		<b>Total</b>	<b>16</b>
<b>FALL</b>	<b>Senior</b>			<b>SPRING</b>	<b>Senior</b>
HIST 100/200	History 100/200	3		FNAR	Fine Arts Elective
ENGR 425	Advanced Heat Transfer and Fluid	3		LANG	Language 102+
EPPS	EPPS	3		EPPS	EPPS
ENGR 492	Senior Engineering Seminar	0		CORE 407	Keystone Seminar
ENGR 497	Capstone Design Proposal	1		ENGR 493	Senior Engineering Seminar
ENGR 415	Senior Lab	3		ENGR 498	Capstone Design
PHIL/RLST	Philosophy or Religious Studies	3			
ENGR 427	Power & Thermal Systems Lab	1			
	<b>Total</b>	<b>17</b>		<b>Total</b>	<b>15</b>
EPPS* ECON 101, PLSC 100-200, PSYC 101, SOC 100-200					
(136 Total credits: 55 credits ENGR; 33 credits Technical Electives; 6 credits Collateral; 42 General Education)					