

SAINT LOUIS UNIVERSITY
 PARKS COLLEGE OF ENGINEERING, AVIATION & TECHNOLOGY
 2017 - 2018 AEROSPACE ENGINEERING CURRICULUM PLAN

Last Name _____ First Name _____ Banner ID _____

COURSES IN BOLD WILL BE OFFERED ONLY ONCE A YEAR

FRESHMEN YEAR

FALL	SPRING
<input type="checkbox"/> AENG 1001 INTRO TO AE/ME	1__ <input type="checkbox"/> AENG 1002 COMPUTER AIDED ENGINEERING DESIGN
<input type="checkbox"/> CHEM 1110/1115 (1070/1075) GEN CHEMISTRY I / LAB	4__ <input type="checkbox"/> CSCI 1060 SCIENTIFIC PROGRAMMING (pcr-MATH 1510)
<input type="checkbox"/> ENGL 1920 ADV. WRITING FOR PROF.	3__ <input type="checkbox"/> MATH 1520 CALCULUS II (p-MATH 1510) **
<input type="checkbox"/> MATH 1510 CALCULUS I *	4__ <input type="checkbox"/> PHYS 1610 ENG. PHYSICS I (p-MATH 1510)
<input type="checkbox"/> THEO 1000 THEOLOGICAL FOUNDATIONS	3__ <input type="checkbox"/> PHYS 1620 ENG. PHYSICS I LAB (c-PHYS 1610)
	<input type="checkbox"/> HUMANISTIC VALUES ELECTIVE ^S
15	15

SOPHOMORE YEAR

FALL	SPRING
<input type="checkbox"/> AENG 2000 INTRO TO AERO & ASTRO (pcr-AENG 1002, pcr-PHYS 1610)	3__ <input type="checkbox"/> ESCI 2100 STATICS (pcr-PHYS 1610)
<input type="checkbox"/> MENG 2011 ENG. SHOP PRACTICE	1__ <input type="checkbox"/> ESCI 2150 DYNAMICS (pcr-ESCI 2100, p-MATH 1520)
<input type="checkbox"/> MATH 2530 CALCULUS III (p-MATH 1520)	4__ <input type="checkbox"/> ESCI 2300 THERMODYNAMICS (pcr-MATH 2530)
<input type="checkbox"/> PHYS 1630 ENG. PHYSICS II (p-MATH 1520, p-PHYS 1610)	3__ <input type="checkbox"/> ESCI 3200 FLUID DYNAMICS (pcr- MATH 2530)
<input type="checkbox"/> PHYS 1640 ENG. PHYSICS II LAB (c-PHYS 1630)	1__ <input type="checkbox"/> ESCI 3201 FLUID DYNAMICS LAB (c-ESCI 3200)
<input type="checkbox"/> HUMANISTIC VALUES ELECTIVE ^S	3__ <input type="checkbox"/> MATH 3550 DIFF. EQUATIONS (p-MATH 2530)
15	16

JUNIOR YEAR

FALL	SPRING
<input type="checkbox"/> AENG 3000 PERFORMANCE (p-AENG 2000)	3__ <input type="checkbox"/> AENG 3100 COMPUTER AIDED ENGG (p-CSCI 1060, p-ESCI 3100,)
<input type="checkbox"/> ECE 2001 ELECTRICAL ENG'G (p-MATH 1520, p-PHYS 1610)	3__ <input type="checkbox"/> AENG 3150 ASTRODYNAMICS (p-AENG 2000, p-ESCI 2150)
<input type="checkbox"/> ECE 2002 ELECTRICAL ENG'G LAB (c-ECE 2001)	1__ <input type="checkbox"/> AENG 3210 GAS DYNAMICS (p-ESCI 2300, p- ESCI 3200, pcr- MATH 3270)
<input type="checkbox"/> ESCI 3100 MECH OF SOLIDS (p-ESCI 2100, pcr-MATH 2530)	3__ <input type="checkbox"/> AENG 3220 AERODYNAMICS (p-ESCI 3200, pcr- MATH 3270)
<input type="checkbox"/> ESCI 3101 MECH OF SOLIDS LAB (c-ESCI 3100)	1__ <input type="checkbox"/> ESCI 3410 LINEAR SYSTEMS (p-ESCI 3110)
<input type="checkbox"/> ESCI 3110 LINEAR VIBS (p-ESCI 2150, p-MATH 3550)	3__ <input type="checkbox"/> MATH /SCIENCE ELECTIVE %
<input type="checkbox"/> MATH 3270 ADV. MATH FOR ENGINEERS (pcr-MATH 3550)	3__
17	18

SENIOR YEAR

FALL	SPRING
<input type="checkbox"/> AENG 4004 DESIGN I/Lab (p-AENG 3000, pcr AENG 4400)	3__ <input type="checkbox"/> AENG 4014 DESIGN II/Lab (p-AENG 4004)
<input type="checkbox"/> AENG 4110 FLIGHT VEHICLE STRUC (pcr-AENG 3100)	3__ <input type="checkbox"/> PHIL 3400 ENGINEERING ETHICS
<input type="checkbox"/> AENG 4111 AEROSPACE LAB (p-AENG 3000, pcr- AENG 4110)	1__ <input type="checkbox"/> CULTURAL DIVERSITY ELECTIVE ##
<input type="checkbox"/> AENG 4210 PROPULSION (p-AENG 3210)	3__ <input type="checkbox"/> TECH ELECTIVE %
<input type="checkbox"/> AENG 4400 STABILITY & CONTROL (p-AENG 3000, pcr- ESCI 3410)	3__ <input type="checkbox"/> TECH ELECTIVE %
<input type="checkbox"/> MENG 4300 HEAT TRANSFER (p-CSCI 1060, p- ESCI 2300, p-ESCI 3200)	3__
16	15

TOTAL 127

p = pre-requisite; must be taken before	\$ humanistic values elective shall be chosen from Philosophy, Theology, Social and Behavioral sciences, or humanities
c = co-requisite; must be taken at the same time	% Select from an approved list of courses
pcr = pre-co-requisite; can be taken before or at the same time	## Replace with Hum-Values elective for students with international origin or experience (study abroad)
* requires proficiency exam; must earn a grade of C- or above	
** must earn a grade of C- or above	

