

SAINT LOUIS UNIVERSITY  
 PARKS COLLEGE OF ENGINEERING, AVIATION & TECHNOLOGY  
 2017 – 2018 MECHANICAL 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"/> CHEM 1110/1115(1070/1075) GEN CHEMISTRY I/ Lab	4__	<input type="checkbox"/> CSCI 1060 SCIENTIFIC PROGRAMMING (pcr-MATH 1510)	3__
<input type="checkbox"/> ENGL 1920 ADV. WRITING FOR PROFESSIONALS	3__	<input type="checkbox"/> MATH 1520 CALCULUS II (p-MATH 1510) **	4__
<input type="checkbox"/> MATH 1510 CALCULUS I*	4__	<input type="checkbox"/> MENG 1002 COMPUTER AIDED ENGINEERING DESIGN	1__
<input type="checkbox"/> MENG 1001 INTRO TO AE/ME	1__	<input type="checkbox"/> PHYS 1610 ENG. PHYSICS I (p-MATH 1510)	3__
<input type="checkbox"/> THEO 1000 THEOLOGICAL FOUNDATIONS	3__	<input type="checkbox"/> PHYS 1620 ENG. PHYSICS I LAB (c-PHYS 1610)	1__
		<input type="checkbox"/> HUMANISTIC VALUES ELECTIVE <sup>§</sup>	3__
	<b>15</b>		<b>15</b>

**SOPHOMORE YEAR**

FALL		SPRING	
<input type="checkbox"/> ESCI 2100 STATICS (pcr-PHYS 1610)	3__	<input type="checkbox"/> ECE 2001 ELEC ENG'G (p-MATH 1520,p-PHYS 1610)	3__
<input type="checkbox"/> ESCI 2300 THERMODYNAMICS (pcr-MATH 2530)	3__	<input type="checkbox"/> ECE 2002 ELECTRICAL ENG'G LAB (c-ECE 2001)	
<input type="checkbox"/> MATH 2530 CALCULUS III (p-MATH 1520)	4__	<input type="checkbox"/> ESCI 3100 MECH OF SOLIDS (p-ESCI 2100, pcr-MATH 2530)	1__
<input type="checkbox"/> MENG 2011 ENG.SHOP PRACTICE	1__	<input type="checkbox"/> ESCI 3101 MECH OF SOLIDS LAB (c-ESCI 3100)	3__
<input type="checkbox"/> PHYS 1630 ENG. PHYSICS II (p-MATH 1520, p-PHYS 1610)	3__	<input type="checkbox"/> <b>MENG 2000 FOUNDATION TO ENGINEERING DESIGN</b> (pcr-MENG 1002, pcr-PHYS 1610,)	1__
<input type="checkbox"/> PHYS 1640 ENG. PHYSICS II LAB (c-PHYS 1630)	1__	<input type="checkbox"/> <b>MENG 2300 APPLIED THERMO (p-ESCI 2300)</b>	3__
	<b>15</b>	<input type="checkbox"/> <b>MENG 2600 MFG. PROCESS/Lab (p-MENG 2011)</b>	3__
			3__
			<b>17</b>

**JUNIOR YEAR**

FALL		SPRING	
<input type="checkbox"/> AENG 3100 COMPUTER AIDED ENGG (p-CSCI 1060, p-ESCI 3100)	3__	<input type="checkbox"/> ESCI 3110 LINEAR VIBS (p-ESCI 2150, p-MATH 3550)	3__
<input type="checkbox"/> ESCI 2150 DYNAMICS (pcr-ESCI 2100, p-MATH 1520)	3__	<input type="checkbox"/> MATH 3270 ADV MATH FOR ENGINEERS (pcr-MATH3550)	3__
<input type="checkbox"/> ESCI 3200 FLUID DYNAMICS (pcr-MATH 2530 )	3__	<input type="checkbox"/> <b>MENG 3001 ME LAB (pcr-MENG 3430, pcr-MENG 3510)</b>	1__
<input type="checkbox"/> ESCI 3201 FLUID DYNAMICS LAB (c-ESCI 3200)	1__	<input type="checkbox"/> <b>MENG 3010 MACHINE DESIGN (pcr-AENG 3100, p-MENG 2000, )</b>	3__
<input type="checkbox"/> MATH 3550 DIFF. EQUATIONS (p-MATH 2530)	3__	<input type="checkbox"/> <b>MENG 3430 MEASUREMENTS (p-ECE 2001, p-ECE 2002)</b>	3__
<input type="checkbox"/> HUMANISTIC VALUES ELECTIVE <sup>§</sup>	3__	<input type="checkbox"/> <b>MENG 3510 MATERIAL SCIENCE (p-CHEM 1070, p-ESCI 3100)</b>	3__
	<b>16</b>		<b>16</b>

**SENIOR YEAR**

FALL		SPRING	
<input type="checkbox"/> ESCI 3410 ANALYSIS CONTROL LINEAR SYSTEMS (ACLS) (p-ESCI 3110)	3__	<input type="checkbox"/> <b>MENG 4014 DESIGN II/Lab (p-MENG 4004)</b>	3__
<input type="checkbox"/> <b>MENG 4004 DESIGN I/Lab</b> (p-MENG 2600, pcr-MENG 3010)	3__	<input type="checkbox"/> MENG 4300 HEAT TRANSFER (p-CSCI 1060, p-ESCI 2300, p-ESCI 3200)	3__
<input type="checkbox"/> <b>MENG 4450 PRIN OF MECHTR (p-ECE 2001)</b>	3__	<input type="checkbox"/> PHIL 3400 ENGINEERING ETHICS	3__
<input type="checkbox"/> MATH / SCIENCE ELECTIVE %	3__	<input type="checkbox"/> CULTURAL DIVERSITY ELECTIVE ##	3__
<input type="checkbox"/> TECH ELECTIVE%	3__	<input type="checkbox"/> TECH ELECTIVE %	3__
	<b>15</b>		<b>15</b>

**TOTAL 124**

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	