

# BS in Engineering Physics (EP) 4 year sample plan

revised 5/27/22

	<u>Fall</u>		<u>Spring</u>	
<b>yr.1</b>	<b>Course</b>	<b>CR</b>	<b>Course</b>	<b>CR</b>
	PH 135/L - Physics 1 + Lab	4	PH 136/L - Physics 2 + Lab	4
	EP 101 - Intro to Engineering	2	EP 102 - Engineering Physics Projects	1
	MT 135 - Calc & Analytic Geometry I	4	MT 136 - Calc & Analytic Geometry II	4
	CORE	6	CORE	6
	<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>15</b>
<b>yr.2</b>	EP 235 - Eng. Phys. Applications	3	PH 246 - Modern Physics	3
	PH 348 - Physics Seminar I	0	EP 251 - Computation in Phys. & Engin.	3
	CH 141/3 - Gen Chemistry I + Lab	5	EP 260/L - Electronics Circuits + Lab	4
	MT 233 - Calc + Analytic Geometry III	4	EP 217 or MT 234	3
	CORE	4	CORE	3
	<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>16</b>
<b>yr.3</b>	EP 350 Statics & Dynamics	3	*EP 325 OR **EP 365	3
	^major elective w/ lab	4	EP 347 Eperimental Methods Lab	3
	PH 349 - Physics Seminar II	0	^major elective w/ lab	4
	CORE	9	CORE	6
		<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>
<b>yr.4</b>	**PH 445 (3rd or 4th yr)	3	*EP 325 OR **EP 365	4
	^major elective w/ lab	4	^major elective	3
	EP 407 - Senior Engineering Design I	3	EP 408 - Senior Engineering Design II	3
	CORE	6	CORE	6
		<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>
			<b>overall total</b>	<b>127</b>

\* offered odd years only  
 \*\* offered even years only  
 ^ EP3XX or EP4XX, approved by the department

MT 234 - Intro to Differential Equation  
 EP 217 - Math Methods for Phys. & Engineering  
 EP 365 - Electricity & Magnetism  
 PH 445 - Quantum Physics  
 EP 325 - Thermodynamics

major requirement  
 major support course  
 JCU CORE: 46 CR shown in this example

Notes: This is only a sample sequence of courses which will satisfy major requirements from the 22-23 Undergraduate Bulletin. Each individual student should work with a department faculty member to customize as necessary. Our curriculum is aligned to meet ABET standards for the engineering profession. The total of 127 credits is for students required to take 46 credits of CORE, which includes 2 semesters of foreign language and 1 semester of written expression.