

# BACHELOR OF SCIENCE, MAJOR IN PHYSICS, MECHANICAL ENGINEERING 2+2

Code	Title	Hours
<b>Bachelor of Science, Major in Physics, Mechanical Engineering 2+2</b>		
<b>Core Curriculum</b>		
	Component Area I (Communication)	6
	Component Area II (Mathematics) <sup>1</sup>	3
	Component Area III (Life and Physical Science) <sup>2</sup>	8
	Component Area IV (Language, Philosophy, and Culture)	3
	Component Area V (Creative Arts)	3
	Component Area VI (U.S. History)	6
	Component Area VII (Political Science/Government)	6
	Component Area VIII (Social and Behavioral Sciences)	3
	Component Area IX (Component Area Option)	4
<b>Degree Specific Requirements</b>		
CHEM 1411	General Chemistry I <sup>2</sup>	4
CHEM 1412	General Chemistry II <sup>2</sup>	4
MATH 1420	Calculus I <sup>1</sup>	4
MATH 1430	Calculus II	4
PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
<b>Major: Foundation</b>		
MATH 3376	Differential Equations	3
PHYS 3115	Electronic & Circuit Anlys Lab	1
PHYS 3360	Statics And Dynamics	3
PHYS 3395	Electronics & Circuit Analysis	3
<b>Major: Concentration</b>		
COSC 1436	Programming Fundamentals I	4
ETDD 1361	Engineering Graphics	3
ETEC 1010	Engineering Foundations	2
MATH 2440	Calculus III	4
<b>Total Hours</b>		<b>81</b>

<sup>1</sup> MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour for Component Area IX (Component Area IX) as well as the major.

<sup>2</sup> Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) as well as the major.

**Note:**

This degree plan is intended for students who will be completing degree work in Mechanical Engineering at the University of Texas at Tyler (UT-Tyler). Students complete 81 semester credit hours at Sam Houston State University and transfer to UT-Tyler to complete the remaining requirements for award of a degree in Mechanical Engineering from UT-Tyler.