



Mechanical Engineering (B.S.) Curriculum & Sample 4-Year Schedule (Proposed, 2021)

General Education Requirements (58 units)

Major Requirements (72 units)

Bible (21 units)			Math & Science (27 units)		
Units	Course #	Course Name	Units	Course #	Course Name
3	B121	Essentials of Christian Thought	3	PS251	Physics I
3	B101	OT Survey I	4		Chemistry I/Lab
3	B102	OT Survey II	3	MA121	Calculus I
3	B201	NT Survey I	3	MA122	Calculus II
3	B202	NT Survey II	3	MA221	Calculus III
3	BTH321	Christian Theology I	2	MA222	Calculus IV
3	BTH322	Christian Theology II	3	MA231	Linear Algebra
			3	MA282	Differential Equations
			3	MA365	Probability
Worldview & Skills (37 units)			Engineering & CS (45 units)		
Units	Course #	Course Name	Units	Course #	Course Name
3	C100	Spoken Communication	3	CIS111	Intro to Comp Programming
3	E110	English Composition	3		Statics & Mech of Materials
3		English/World/American Literature	1		Statics Lab
3		General Literature Elective	3		CAD & SolidWorks
3	ECN200	Essentials of Economics & Society	3		Electric Circuits
3	H211	Essentials of World History I	3		Electric Circuits Lab
3	H212	Essentials of World History II	3		Dynamics
3	H230	Essentials of U.S. History	1		Dynamics Lab
3		Biology/Geology	3		Kinematics & Robotics
1		Biology/Geology Lab	3		Thermodynamics
3		Music/Art	1		Thermodynamics Lab
3	P311	Essentials of Philosophy	3		Fluid Mechanics
3	POL220	U.S. Government	3		Heat Transfer
			3		Machine Design
			3		Vibrations
			3		Engineering & CS Elective
			3		Senior Design Project

Sample Schedule

<u>Freshman Fall (15 units)</u> Essentials of Christian Thought, OT Survey I, Calculus I, Physics I, Spoken Communication	<u>Freshman Spring (16 units)</u> OT Survey II, Calculus II, General Chem I/Lab, English Composition, Essentials of U.S. History
<u>Sophomore Fall (19 units)</u> NT Survey I, Christian Theology I, Statics & Mech of Materials/Lab, CAD & SolidWorks , Intro to Comp Programming, Calculus III	<u>Sophomore Spring (18 units)</u> NT Survey II, Christian Theology II, Calculus IV, General Lit Elective, Econ & Society, Dynamics/Lab
<u>Junior Fall (16 units)</u> World History I, Thermodynamics/Lab , Differential Equations, Music/Art, Vibrations	<u>Junior Spring (16 units)</u> World History II, Fluid Mechanics , Linear Algebra, Kinematics & Robotics , Biology/Geology/Lab
<u>Senior Fall (15 units)</u> Essentials of Philosophy, Heat Transfer , Electric Circuits/Lab, Probability	<u>Senior Spring (15 units)</u> English/World/American Lit, Machine Design , Senior Design Project, U.S. Government, Elective