School of Engineering and Engineering Technology

Rev. 7/10/2023

Bachelor of Science
Mechanical Engineering (BSME)
2023-24
COURSE SEQUENCE

First Semester - Fall

		17		Hours
____	BIBL	1033	3	Biblical Literature
____	CHEM	1111	1	General Chemistry I Lab
____	CHEM	1113	3	General Chemistry I
____	ENGL	1013	3	English Composition I
____	ENGR	1513	3	Intro to Engr Practice I (Fall Only)
____	LETU	1101	1	Cornerstones of Life and Learning
____	MATH	1903	3	Calculus I [1]

Second Semester - Spring

		17		
____	ENGL	1023	3	English Composition II
____	ENGR	1311	1	Manufacturing Processes Lab
____	ENGR	1523	3	Intro to Engr Practice II (Spring Only)
____	MATH	2013	3	Calculus II [1]
____	PHYS	2011	1	University Physics I Lab (Spring Only)
____	PHYS	2013	3	University Physics I (Spring Only)
____	THEO	2043	3	Biblical Theology for Life [2]

Third Semester - Fall

		17		
____	COSC	1303	3	Computer Science I
____	ENGR	2704	4	Proj. Mgmt, Design & Entrepren
____	MATH	2023	3	Calculus III
____	MEGR	2013	3	Statics [1]
____	PHYS	2021	1	University Physics II Lab (Fall Only)
____	PHYS	2023	3	University Physics II (Fall Only)

Fourth Semester - Spring

		17		
____	COMM	1113	3	Introduction to Speech Communication
____	ENGR	2053	3	Introduction to Electric Circuits
____	ENGR	2400	0	Sophomore Design Seminar (Spring Only)
____	MATH	2203	3	Differential Equations
____	MEGR	2023	3	Dynamics [1]
____	MEGR	2122	2	Mechanical Engineering Lab I
____	MEGR	3323	3	Mechanics of Materials [1]

Fifth Semester - Fall

		15		
____	BIBL	____	3	Biblical Engagement Elective [3]
____	ENGR	2313	3	Materials Engineering
____	MATH	3403	3	Statistics
____	MEGR	3513	3	Fluid Mechanics (Fall Only)
____	MEGR	3713	3	Thermodynamics

Sixth Semester - Spring

		15		
____	MATH	2303	3	Linear Algebra
____	MEGR	3133	3	Mechanical Engineering Lab II (Spring Only)
____	MEGR	4723	3	Heat Transfer (Spring Only)
			3	Civic Engagement Elective [4]
			3	Approved STEM Elective [5]

Seventh Semester - Fall

		15		
____	ENGR	4813	3	Senior Design I [6]
____	MEGR	4423	3	Mechanical Vibrations (Fall Only)[7]
____	MEGR	4443	3	Machine Design (Fall Only)
			3	Civic Engagement Elective [4]
			3	Approved STEM Elective [5]

Eighth Semester - Spring

		15		
____	ENGR	4823	3	Senior Design II [8]
____	MATH	____	3	Math Elective [4]
____	THEO	____	3	Theological Engagement Elective [9]
			3	Ingenuity Elective [4]
			3	BSME Technical Elective [4]

TOTAL HOURS 128

Optional Aerospace Engineering Focus within the BSME

Select 2 of the following 4 courses

MEGR 4243: Applied Aerodynamics (Fall, Grad offered)
MEGR 4313: Aircraft Dynamics & Control (Spring, Grad Offered)
MEGR 4643: Compressible Flow (Spring, Grad Offered)

Count as STEM or BSME Technical Electives

AERO 3153: Aviation Safety Factors (**online;** Fall, Spring, Summer)

Counts as STEM Elective ONLY

1: Minimum grade of C is required.
2: BIBL1033 is a prerequisite
3: Any 2000+ BIBL course
4: See approved list available in Engineering Office
5. Approved 3000+ Engineering, Business, Science, Math course, approved 2000+ Computer Science course (3cr) (See approved electives list available in SEET Office)
6: BSME senior standing (last full year at LETU) is a pre-requisite
7: EEGR 3523 Mechatronics may be substituted for MEGR 4423 Mechanical Vibrations
8: Senior Design II must be the second half of the same project as Senior Design I (sequential semesters)
9: Any 2000+ level BIBL course, CCLT 3103, CCLT 3203, CCLT 4103, CMIN 3303, CMIN 3403, THEO 3063, THEO 3103, THEO 3133, THEO 3203, THEO 4941-4993 Special Topics classes

BSME — Technical Course Sequence - Mechanical Engineering — 2023-2024