

**Mechanical Engineering, B.S.**  
**MECHANICAL ENGINEERING - Optional Biomechanics Focus**  
**(MEGR/BSME)**  
**2025-26**  
**COURSE SEQUENCE**

**Note: The standard Mechanical Engineering course sequence, including the optional Aerospace Focus, are on a separate course sequence sheet.**

First Semester - Fall				
<b>17 Hours</b>				
_____	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 <sup>(1)</sup>

Second Semester - Spring				
<b>17</b>				
_____	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 <sup>(1)</sup>
_____	PHYS	2011	1	University Physics I Lab (Spring Only)
_____	PHYS	2013	3	University Physics I (Spring Only)
_____	THEO	2043	3	Biblical Theology for Life <sup>(2)</sup>

Third Semester - Fall				
<b>17</b>				
_____	COSC	1303	3	Computer Science I
_____	ENGR	2704	4	Proj. Mgmt, Design & Entrepren
_____	MATH	2023	3	Calculus III
_____	MEGR	2013	3	Statics <sup>(1)</sup>
_____	PHYS	2021	1	University Physics II Lab (Fall Only)
_____	PHYS	2023	3	University Physics II (Fall Only)

Fourth Semester - Spring				
<b>17</b>				
_____	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 <sup>(1)</sup>
_____	MEGR	2122	2	Mechanical Engineering Lab I
_____	MEGR	3323	3	Mechanics of Materials <sup>(1)</sup>

Fifth Semester - Fall				
<b>16</b>				
_____	BIBL	_____	3	Biblical Engagement Elective <sup>(3)</sup>
_____	BIOL	2011	1	Human A & P I Lab (Fall Only)
_____	BIOL	2013	3	Human A & P I (Fall Only)
_____	MATH	3403	3	Statistics
_____	MEGR	3513	3	Fluid Mechanics
_____	MEGR	3713	3	Thermodynamics

Sixth Semester - Spring				
<b>15</b>				
_____	MATH	2303	3	Linear Algebra
_____	ENGR	2013	3	Materials Engineering
_____	MEGR	3133	3	Mechanical Engineering Lab II (Spring Only)
_____	MEGR	4723	3	Heat Transfer
_____			3	Civic Engagement Elective <sup>(4)</sup>

Seventh Semester - Fall				
<b>14</b>				
_____	ENGR	4813	3	Senior Design I <sup>(6)</sup>
_____	BEGR	3614	4	Muscular Skeletal Biomechanics (Fall Only)
_____	BEGR	3811	1	Jr. Biomedical Engr. Research (Fall Only)
_____	MEGR	4423	3	Mechanical Vibrations (Fall Only) <sup>(7)</sup>
_____	MEGR	4443	3	Machine Design (Fall Only)

Eighth Semester - Spring				
<b>15</b>				
_____	ENGR	4823	3	Senior Design II <sup>(8)</sup>
_____	MATH	_____	3	Math Elective <sup>(4)</sup>
_____	THEO	_____	3	Theological Engagement Elective <sup>(9)</sup>
_____			3	Humanities and Fine Arts Elective <sup>(4)</sup>
_____			3	Civic Engagement Elective <sup>(4)</sup>

**TOTAL HOURS 128**

- 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), BIOL 2011 or 2013 (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 - pre-requisite is EEGR 3213 Digital Elec.
- 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, +A30:M57CCLT 3103, CCLT 3203, CCLT 4103, CMIN 3303, CMIN 3403, THEO 3063, THEO 3103, THEO 3133, THEO 3203, THEO 4941-4993 Special Topics classes

