

School of Engineering and Engineering Technology
ENGINEERING TECHNOLOGY, B.S.
WELDING and MATERIALS JOINING CONCENTRATION
(ETEC.WEMJ/WEMJT)
2025-26
SUGGESTED COURSE SEQUENCE

First Semester - Fall				
14 Hours				
_____	CHEM	1111	1	General Chemistry I Lab
_____	CHEM	1113	3	General Chemistry I
_____	ENGL	1013	3	English Composition I
_____	ENGR	1513	3	Intro to Engineering Practice I (Fall only)
_____	LETU	1101	1	Cornerstones of Life & Learning
_____	MATH	1203	3	College Algebra ⁽¹⁾

Second Semester - Spring				
17 Hours				
_____	BIBL	1033	3	Biblical Literature
_____	ENGL	1023	3	English Composition II
_____	ENGR	1311	1	Manufacturing Processes Lab
_____	ENGR	1523	3	Intro to Engineering Practice II (Spring only)
_____	MATH	1253	3	Trigonometry ⁽¹⁾
_____	PHYS	1111	1	General Physics I Lab (Spring only)
_____	PHYS	1113	3	General Physics I (Spring only)

Third Semester - Fall				
18 Hours				
_____	ENGR	2313	3	Materials Engineering
_____	MATH	1604	4	Technical Calculus (Fall only) ⁽¹⁾
_____	METC	2013	3	Statics (Fall only) ⁽¹⁾
_____	PHYS	1121	1	General Physics II Lab (Fall only)
_____	PHYS	1123	3	General Physics II (Fall only)
_____	MJET	2021	1	Mat Joining Fundamentals Lab (Fall only)
_____	MJET	2023	3	Mat Joining Fundamentals (Fall only)

Fourth Semester - Spring				
15 Hours				
_____	COMM	1113	3	Intro to Speech Communication
_____	THEO	2043	3	Biblical Theology for the Christian Life
_____	ENGR	2400	0	Sophomore Design Seminar (Spring only)
_____	EETC	1021	1	DC Circuits Lab (Spring only) ⁽¹⁾
_____	EETC	1022	2	DC Circuits (Spring only) ⁽¹⁾
_____	METC	2023	3	Dynamics (Spring only) ⁽¹⁾
_____	MJEG	3103	3	Joining Methods I (Spring only) ⁽¹⁾

Fifth Semester - Fall				
17 Hours				
_____	BUSI	3023	3	Entrepreneurship for Engineers
_____	EETC	1041	1	AC Circuits Lab (Fall only) ⁽¹⁾
_____	EETC	1042	2	AC Circuits (Fall only) ⁽¹⁾
_____	METC	3503	3	Thermodynamics & Heat Transfer (Fall only)
_____	MJEG	3201	1	Mat'l's Testing & Char Lab (Fall only)
_____	METC	3321	1	Strength of Materials Lab (Fall only)
_____	METC	3323	3	Strength of Materials (Fall only)
_____			3	Civic Engagement Elective

Sixth Semester - Spring				
16 Hours				
_____	EETC	3433	3	Industrial Instrumentation & Controls (Sp only)
_____	ENGR	2704	4	Project Mgmt, Design & Entrep
_____	MATH	1423	3	Elementary Statistics
_____	MJEG	3223	3	Welding Metallurgy I (Spring only) ⁽¹⁾
_____	MJEG	3013	3	Design Topics in Welding Eng (Spring only)

Seventh Semester - Fall				
15 Hours				
_____	BIBL		3	Biblical Engagement Elective
_____	EETC	3413	3	Industrial Power & Machinery (Fall only)
_____	ENGR	4813	3	Senior Design I (Fall only)
_____	MJEG	4313	3	Nondestructive Evaluation (Fall only)
_____	MJEG	3XX3	3	Welding Engineering Elective

Eighth Semester - Spring				
15 Hours				
_____	ENGR	4823	3	Senior Design II (Spring only)
_____	GETC	3323	3	Modern Manufacturing Methods (Spring only)
_____			3	Civic Engagement Elective
_____	THEO		3	Theological Engagement Elective
_____			3	Humanities & Fine Arts Elective

TOTAL HOURS 127

1: Minimum grade of 'C' required.

Approved Welding Engineering Electives				
_____	MJEG	4023	3	Welding Procedure Devel & QC (Fall, Even)
_____	MJEG	4353	3	Automation in Welding and Mfg (Fall, Odd)

