

School of Engineering and Engineering Technology
ENGINEERING TECHNOLOGY, B.S.
MATERIALS JOINING CONCENTRATION (MJT)
2024-25
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	1303	3 Precalculus ⁽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'ls 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)

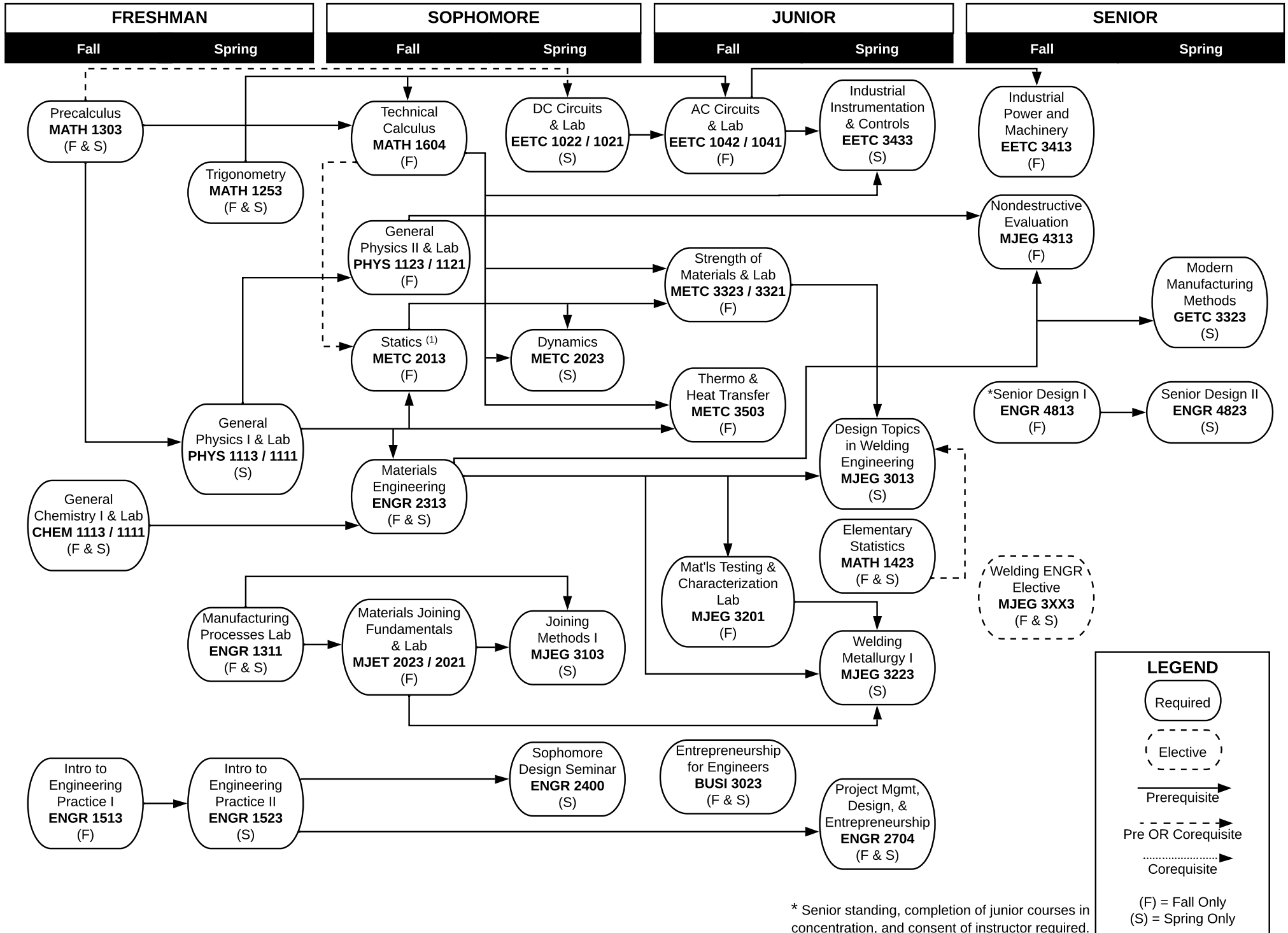
Seventh Semester - Fall			
15 Hours			
_____	BIBL		3 Biblical Engagement Elective
_____	EETC	3413	3 Industrial Power & Machinery (Fall only)
_____	ENGR	4813	3 Senior Design I (Fall only)
_____	MJEG	4313	3 Nondestructive Evaluation (Fall only)
_____	MJEG	3XX3	3 Welding Engineering Elective

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)



* Senior standing, completion of junior courses in concentration, and consent of instructor required.