

School of Engineering and Engineering Technology
ENGINEERING TECHNOLOGY, B.S.
MATERIALS JOINING CONCENTRATION (MJT)

2023-24

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 Materials Joining Fundamentals Lab (Fall only)
___	MJET	2023	3 Materials 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 Electricity Laboratory (Spring only) ⁽¹⁾
___	EETC	1022	2 DC Electricity (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 Electricity Lab (Fall only) ⁽¹⁾
___	EETC	1042	2 AC Electricity (Fall only) ⁽¹⁾
___	METC	3503	3 Thermodynamics & Heat Transfer (Fall only)
___	MJEG	3201	1 Mat'l's Testing & Characterization Lab (FA 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 Instrumentation and Controls (Spring only)
___	ENGR	2704	4 Project Mgmt, Design & Entrepreneurship
___	MATH	1423	3 Elementary Statistics
___	MJEG	3223	3 Welding Metallurgy I (Spring only) ⁽¹⁾
___	MJEG	3013	3 Design Topics in Welding Engineering (Spring only)

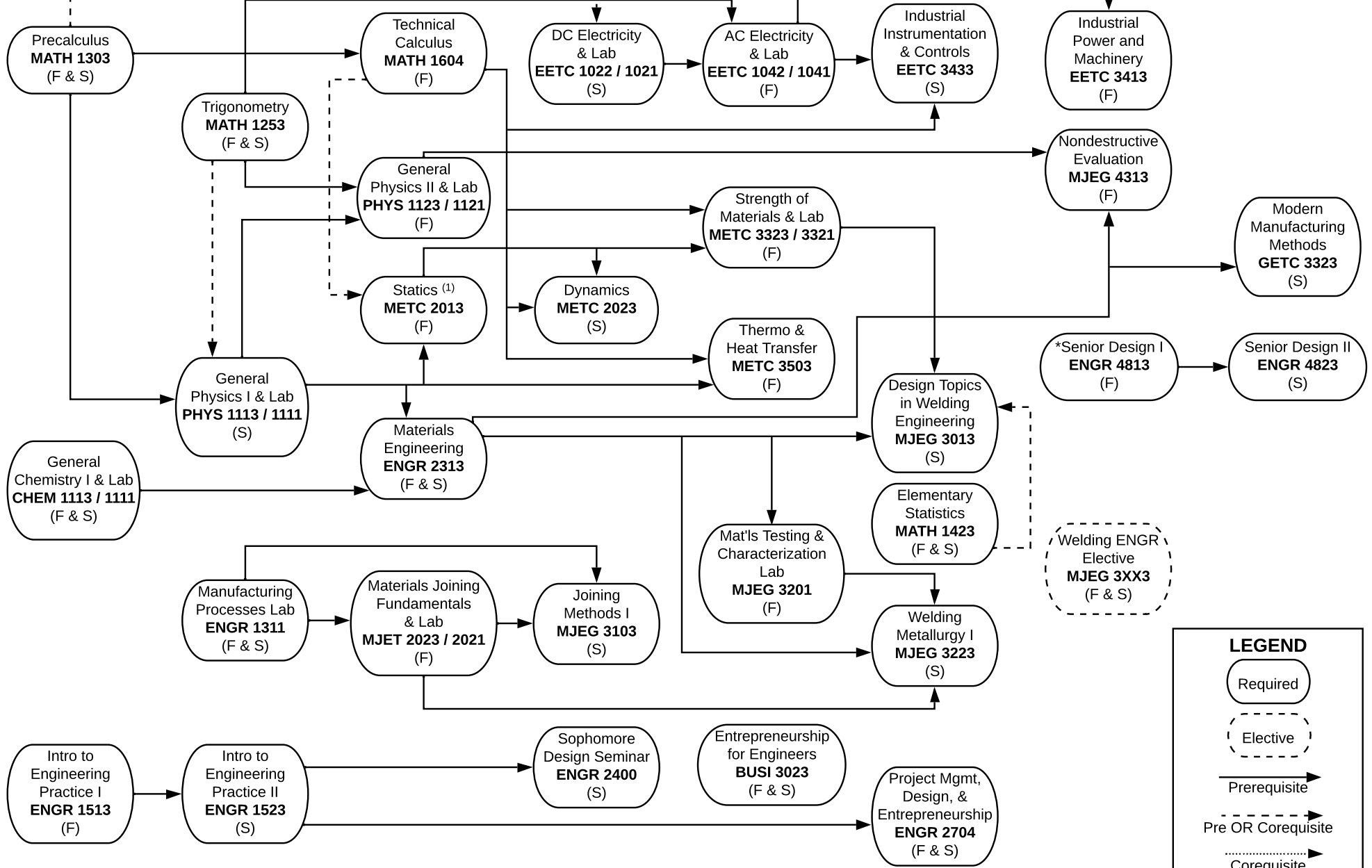
Seventh Semester - Fall			
15 Hours			
___	BIBL		3 Biblical Engagement Elective
___	EETC	3413	3 Electrical Machinery (Fall only)
___	ENGR	4813	3 Senior Design I (Fall only)
___	MJEG	4313	3 Nondestructive Evaluation (Fall only)
___	MJEG	3XX3	3 Welding Engineering Elective

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 Ingenuity Elective

TOTAL HOURS 127

1: Minimum grade of 'C' required.

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



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