

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) |

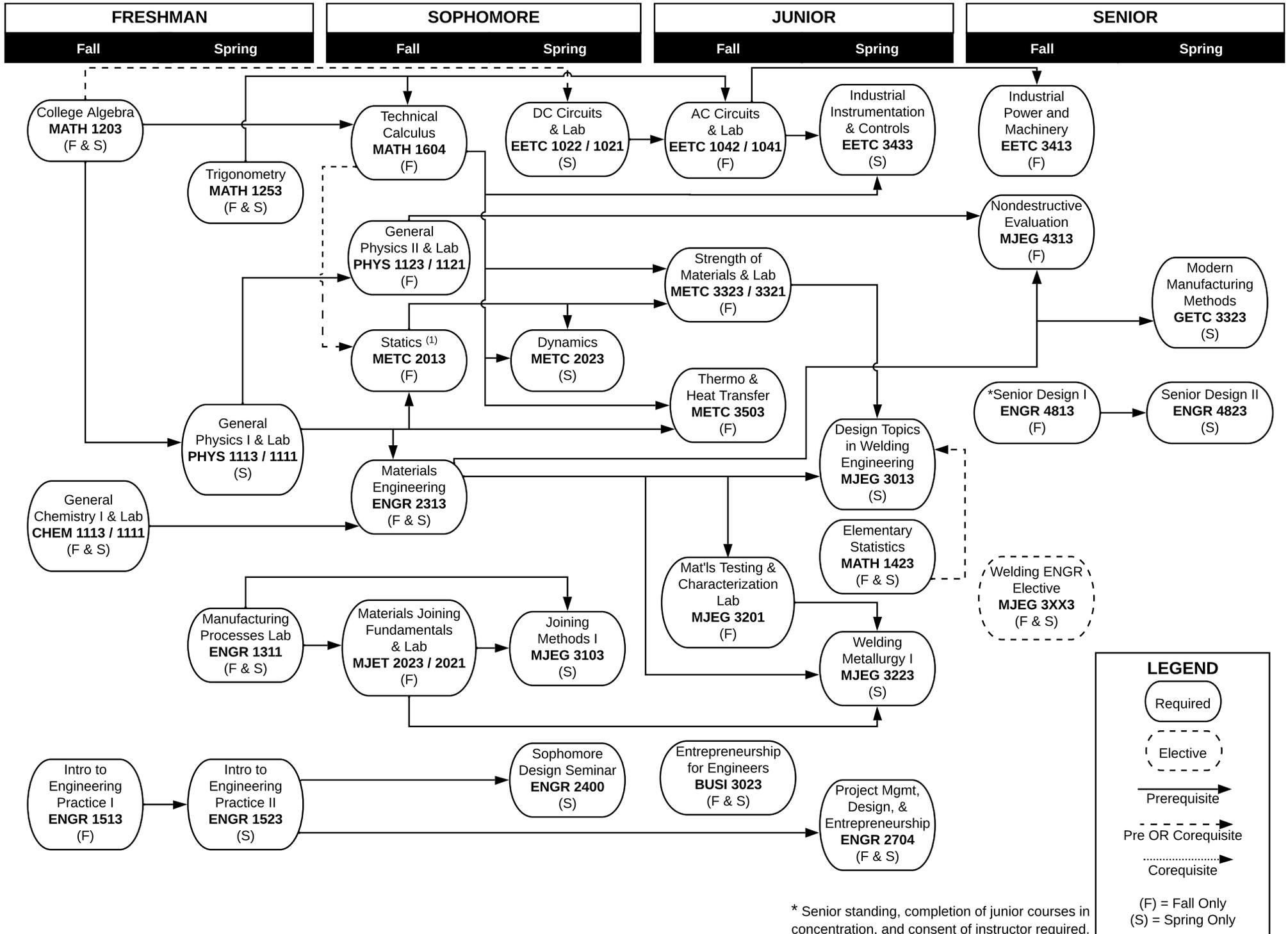
| Seventh Semester - Fall | | | |
|--------------------------------|------|------|--|
| 15 Hours | | | |
| _____ | BIBL | | 3 Biblical Engagement Elective |
| _____ | EETC | 3413 | 3 Industrial Power & Machinery (Fall only) |
| _____ | ENGR | 4813 | 3 Senior Design I (Fall only) |
| _____ | MJEG | 4313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



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