

BSET Mechanical Engineering Technology Checksheet

Rev: Original
 Catalog Date: 2023-2024

Last Name: _____
 First Name: _____
 Student ID: _____

Overall GPA: _____
 Major GPA: _____

SEM &

| YR | Course # | Course Name | Hr | Grade | Pre/Co-Requisites | Comments |
|------------------------|------------|--|--------------|-----------|-------------------|----------|
| Freshman - Fall | | | | | | |
| _____ | ETGR 1201 | Introduction to ET & CM ^(c) | 2 | _____ | MATH 1100 | _____ |
| _____ | ETME 1111 | CAD Modeling I ^(c) | 3 | _____ | | _____ |
| _____ | MATH 1103 | Precalc Math for Sci. & Eng. ^(c) | 3 | _____ | | _____ |
| _____ | PHYS 1101 | Introductory Physics I ^(c) | 3 | _____ | MATH1103 | _____ |
| _____ | PHYS 1101L | Introductory Physics I Laboratory ^(c) | 1 | _____ | PHYS 1101 | _____ |
| _____ | WRDS 1103 | Writing & Inquiry in Academic Contexts I & II ^(c) | 3 | _____ | | _____ |
| | | | Total | 15 | | |

Freshman - Spring

| | | | | | | |
|-------|------------|--|--------------|-----------|--|-------|
| _____ | ETME 1112 | CAD Modeling II ^(c) | 3 | _____ | ETME 1111* | _____ |
| _____ | MATH 1121 | ET Calculus, ETGR 2171 or MATH 1241 ^(c) | 3 | _____ | MATH 1103* | _____ |
| _____ | PHYS 1102 | Introductory Physics II ^(c) | 3 | _____ | PHYS 1101* | _____ |
| _____ | PHYS 1102L | Introductory Physics II Laboratory ^(c) | 1 | _____ | PHYS 1101L or PHYS 2101L, <i>PHYS 1102</i> | _____ |
| _____ | XXXX 1512 | Refer to DegreeWorks for Local Arts and Humanities course ^(a) | 3 | _____ | See Footnote (a) below | _____ |
| _____ | CTCM 2530 | Critical Thinking and Communication | 3 | _____ | | _____ |
| | | | Total | 16 | | |

Sophomore - Fall

| | | | | | | |
|-------|------------|------------------------------------|--------------|-----------|---|-------|
| _____ | ETME 2100 | Sophomore Design Practicum | 2 | _____ | ETGR 1101*, ETME 1112*, ETME 2100L | _____ |
| _____ | ETME 2100L | Sophomore Design Practicum Lab | 1 | _____ | ETME 2100 | _____ |
| _____ | ETME 2141 | Applied Engineering Materials | 3 | _____ | ETGR 1201* | _____ |
| _____ | ETGR 2101 | Applied Mechanics I ^(c) | 3 | _____ | MATH 1103 | _____ |
| _____ | CHEM 1251 | General Chemistry I | 3 | _____ | MATH 1100* or CHEM 1200* | _____ |
| _____ | STAT 1220 | Elements of Statistics I | 3 | _____ | MATH1100 | _____ |
| | | | Total | 15 | | |

Sophomore - Spring

| | | | | | | |
|-------|-----------|---|--------------|-----------|-----------------------------------|-------|
| _____ | ETGR 2106 | Electronic Circuits and Devices | 3 | _____ | MATH1103 | _____ |
| _____ | ETME 2102 | Mechanisms | 3 | _____ | ETME 1111*, MATH1121*, PHYS 1101* | _____ |
| _____ | ETME 2142 | Applied Manufacturing | 3 | _____ | ETGR 1201* | _____ |
| _____ | ETGR 2272 | Engineering Analysis II or MATH 1242 ^(c) | 3 | _____ | MATH 1121* or MATH 1241* | _____ |
| _____ | XXXX 1511 | Refer to DegreeWorks for Local Social Science course ^(a) | 3 | _____ | See Footnote (a) below | _____ |
| | | | Total | 15 | | |

Course in *italics* can be taken as a pre or co requisite

Course in **bold** must be taken as a co requisite

* = grade of C or better required in prerequisite course

Footnotes:

- (a) DegreeWorks will state which course(s) you still need to complete the requirement. Please follow DegreeWorks when registering for general education theme courses.
 (b) Major elective courses are chosen jointly by student and advisor from the course list approved by the Department as major electives. Other courses related to the student's professional interests and career goals may be considered but all such requests to take alternative major elective courses must be approved in writing by the ETCM Department.
 (c) These courses must be completed with a grade of C or better.
 (d) Choose from either ETME 3123L (W) (WRDS 1103* OR WRDS 1104*, ETGR 1100L*, *ETME 3123*) or ETME 4250L (W) (WRDS 1103 OR WRDS 1104, *ETME 3250*)
 (e) ETME3100, Senior Standing, completion of all lower division courses and any deficiencies, and approval by department. *ETME3113, ETME3213, ETME3250, ETGR3222, ETME3150, and ETME3123L OR ETME4250L*

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| & YR | Course # | Course Name | Hr | Grade | Pre/Co-Requisites | Comments |
|------------------------|----------------|---|-----------|-------|---|----------|
| Junior - Fall | | | | | | |
| _____ | ETME 3113 | Dynamics | 3 | _____ | ETGR 2101*, <i>ETGR 2272</i> | _____ |
| _____ | ETME 3123 | Strength of Materials | 3 | _____ | ETGR 2101* | _____ |
| _____ | ETME 3133 | Fluid Mechanics | 3 | _____ | ETGR 2101*, <i>MATH1121</i> | _____ |
| _____ | ETGR 3171 | Engineering Analysis III or ETGR 4272 | 3 | _____ | ETGR 2272* or MATH 1242* and STAT 1220* | _____ |
| _____ | ETGR 3222 | Engineering Economics | 3 | _____ | | _____ |
| | | Total | 15 | | | |
| Junior - Spring | | | | | | |
| _____ | Lab Elective | | 1 | _____ | See Footnote (d) below | _____ |
| _____ | ETME 3100 | Junior Design Practicum | 3 | _____ | ETME 2100, <i>ETME 3133</i> , ETME 3100L | _____ |
| _____ | ETME 3100L | Junior Design Practicum Lab | 1 | _____ | ETME 3100 | _____ |
| _____ | ETME 3250 | Principles of Thermal Engineering | 3 | _____ | ETME 3133, <i>ETGR 2272</i> * | _____ |
| _____ | ETME 3150 | Applied CAD Modeling and Simulation | 3 | _____ | ETME 1111*, ETME 2102, ETME 3123 | _____ |
| _____ | ETME 3213 | Machine Design I | 3 | _____ | ETME 2102, ETME 3123 | _____ |
| | | Total | 14 | | | |
| Senior - Fall | | | | | | |
| _____ | ETGR 4100 | Capstone Design Project I | 2 | _____ | See Footnote (e) below | _____ |
| _____ | ETME 4250 | Thermal Engineering Applications | 3 | _____ | ETME 3250 | _____ |
| _____ | XXXX 1501 | Refer to DegreeWorks for Global Social Science course ^(a) | 3 | _____ | See Footnote (a) below | _____ |
| _____ | Major Elective | | 3 | _____ | See Footnote (b) below | _____ |
| _____ | Major Elective | | 3 | _____ | See Footnote (b) below | _____ |
| | | Total | 14 | | | |
| Senior - Spring | | | | | | |
| _____ | ETGR 3295 | Multidisciplinary Professional Development | 1 | _____ | Junior or Senior standing | _____ |
| _____ | ETGR 4200 | Capstone Design Project II | 2 | _____ | ETGR 4100 | _____ |
| _____ | ELET 2241 | Instrumentation and Controls | 3 | _____ | ELET2112 or ETGR 2106, ELET2241L | _____ |
| _____ | ELET 2241L | Instrumentation Lab | 1 | _____ | ELET 2241 | _____ |
| _____ | XXXX 1512 | Refer to DegreeWorks for Global Arts and Humanities course ^(a) | 3 | _____ | See Footnote (a) below | _____ |
| _____ | Major Elective | | 3 | _____ | See Footnote (b) below | _____ |
| _____ | Major Elective | | 3 | _____ | See Footnote (b) below | _____ |
| | | Total | 16 | | | |

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 (e) ETME3100, Senior Standing, completion of all lower division courses and any deficiencies, and approval by department. *ETME3113, ETME3213, ETME3250, ETGR3222, ETME3150, and ETME3123L OR ETME4250L*