

Mechanical Engineering Technology Checksheet

The Academic Plan of Study is a guide. Always confer with your Academic Advisor for your semester course plans.

| Lower-Level Courses | | | | | | |
|---------------------|----------|---------------------|--|--------|--------|--|
| | SEM & YR | Course # | Course Title | Hrs | Grade | Prerequisites |
| Freshman Fall | | ENGR 13xx | Foundational ENGR Course (ENGR 1300, 1301, 1302, or 1303)* | 2-3 | | |
| | | ENGR 13xx | Foundational ENGR Course (ENGR 1300, 1301, 1302, or 1303)* | 2-3 | | |
| | | MATH 1103 | Precalc Math for Sci. & Eng.(c) | 3 | | |
| | | XXXX 15XX | Refer to DegreeWorks for Themes Courses (a) | 3 | | See Footnote (a) below |
| | | XXXX 15XX | Refer to DegreeWorks for Themese Courses (a) | 3 | | See Footnote (a) below |
| | | | | Total: | 14-15 | |
| Freshman Spring | | ENGR 13xx | Foundational ENGR Course (ENGR 1300, 1301, 1302, or 1303)* | 2-3 | | |
| | | ENGR 13xx | Foundational ENGR Course (ENGR 1300, 1301, 1302, or 1303)* | 2-3 | | |
| | | MATH 1241 | Calculus I(c) | 3 | | MATH 1103* |
| | | PHYS 2101 | Physics for Science and Engineering I(c) | 3 | | MATH 1241* |
| | | PHYS 2101L | Physics for Science and Engineering I Laboratory(c) | 1 | | MATH 1241*, <i>PHYS 2101</i> |
| | | WRDS 1103 | Writing & Inquiry in Academic Contexts I & II(c) | 3 | | |
| | | | | | Total: | 15-16 |
| Sophomore Fall | | MEET 2301 | Statics(c) | 3 | | MATH 1103* |
| | | MEET 2211 | CAD Fundamentals(c) | 3 | | ENGR 1303* |
| | | MEET 2201 | Applied Engineering Materials | 3 | | ENGR 1301* |
| | | MEET 2221 | Circuit Fundamentals | 3 | | MATH 1103* |
| | | MEET 2600 | Prof. Development Seminar for Engr Technologists | 1 | | |
| | | ETGR 2272 | Engineering Analysis II or MATH 1242(c) | 3 | | MATH 1241* |
| | | | | | Total: | 16 |
| Sophomore Spring | | MEET 2202 | Applied Manufacturing | 3 | | MEET 2201 |
| | | MEET 2100 | Project Design and Management | 3 | | ENGR 1300* |
| | | MEET 2302 | Kinematics | 3 | | MEET 2211*, MATH1241*, <i>PHYS 2101*</i> |
| | | MEET 2222 | Instrumentation and Measurements | 3 | | MEET 2221 and ENGR 1302* |
| | | 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> |
| | | | | | Total: | 16 |
| Upper-Level Courses | | | | | | |
| | SEM & YR | Course # | Course Title | Hrs | Grade | Prerequisites |
| Junior Fall | | MEET 2203 | Machining Laboratory | 1 | | Sophomore Standing |
| | | MEET 3302 | Kinetics | 3 | | MEET 2301*, MEET 2302, <i>ETGR 2272</i> |
| | | MEET 3301 | Strength of Materials | 3 | | MEET 2301* |
| | | MEET 3301L | Stress Analysis Lab | 1 | | WRDS 1103* OR WRDS 1104*, <i>MEET 3301</i> |
| | | MEET 3250 | Fluid Mechanics | 3 | | MEET 2301*, <i>MATH 1241</i> |
| | | ENGL 2116 | Intro to Technical Communication | 3 | | |
| | | | | | Total: | 14 |
| Junior Spring | | MEET 3100 | Junior Design Practicum | 3 | | MEET 2100, MEET 2203 |
| | | MEET 3303 | Machine Design I | 3 | | MEET 2201, MEET 2302, MEET 3301 |
| | | MEET 3251 | Principles of Thermal Engineering | 3 | | MEET 3250, <i>ETGR 2272*</i> |
| | | CTCM 2530 | Critical Thinking and Communication | 3 | | See Footnote (a) below |
| | | MATH 2171 | Differential Equations or Engineering Analysis III | 3 | | MATH 1242* or <i>ETGR 2272*</i> |
| | | | | | Total: | 15 |
| Senior Fall | | MEET 4211 | Applied CAD Modeling and Simulation | 3 | | MEET 2211*, MEET 3301, <i>MEET 3251</i> |
| | | MEET 4101 | Mechanical Capstone Design I(d) | 2 | | See Footnote (d) below |
| | | MEET 4251 | Thermal Engineering Applications | 3 | | MEET 3251 |
| | | Restricted Elective | | 3 | | See Footnote (b) below |
| | | Restricted Elective | | 3 | | See Footnote (b) below |
| | | | | | Total: | 14 |
| Senior Spring | | MEET 4102 | Mechanical Capstone Design II | 2 | | MEET 4101 |
| | | MEET 4252 | Thermal Fluids Lab | 1 | | WRDS 1103* OR WRDS 1104*, MEET 3251 |
| | | Restricted Elective | | 3 | | See Footnote (b) below |
| | | Restricted Elective | | 3 | | See Footnote (b) below |
| | | XXXX 1575 | Refer to DegreeWorks for Themes Courses(a) | 3 | | See Footnote (a) below |
| | | XXXX 15XX | Refer to DegreeWorks for Themes Courses(a) | 3 | | MATH 1103 |
| | | | | 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.

