

Smart Manufacturing Engineering Major Course Flow (revised 05/23/2023)

Student:

Advising Dates:

Freshman Year

Sophomore Year

Choose three each semester

Junior Year

Senior Year

CEC 111
Imagination,
Ingenuity, and
Impact I
(Fall only)

CEC 112
Imagination,
Ingenuity, and
Impact II
(Spring Only)

Legend
P – pre-req
C – co-req
P/C – pre or co-req

MTH 151

MTH 251

PHY 181

PHY 182

PHY 183

Students in the Honors Program need to consult with Honors advisors on selection of their Honors customized educational plan INSTEAD of Miami's general education requirements.

ENG 111

MP Humanities

MP Creative Arts

MP Global Inquiry

(P) MTH 151
(P) PHY 181

MME 211
Static Modeling
of Mechanical
Systems

Min C-

(P/C) MME211
MME 201
Modeling and
Design

(P/C) STA 301
or STA 261

MME 231
Manufacturing
Processes

(P) MTH 151
(P/C) CHM 141

MME 223
Engineering
Materials

MME 232
Polymer
Processes

(P/C) MTH 251
(P) PHY 182

ECE 205
Electric Circuit
Analysis

Combined math
MTH 246

CHM 141

CHM 144

ECO 201

STA 301
or STA 261

MME 301
Product
Development

(P) MTH 251

MME 312
Mechanics of
Materials

MME 331
Advance
Manufacturing
and Design

(P) STA 301 or STA
261

MME 334
Quality Planning &
Control

(P/C) MTH 246

MME 305
Measurements
and
Instrumentation

MP DEI

MME 337
Manufacturing
Automation

(P) MTH 151
(P/C) STA 301
or STA 261

MME/CPB 341
Engineering
Economics

(P) STA 301 or
STA 261

STA 363
Intro to statistical
Modeling

MP Social Science
II

MP Intercultural
Consciousness

Senior Standing
MME 448
Senior Design
Projects

Senior Standing
MME 449
Senior Design
Projects

(P) MTH 251
MME 411
Machine &
Tool Design

MME 432
Digital
Manufacturing

MME 435
Process
Engineering

MME 433
Smart Factory

MME 470
or
STA 402
Or
STA 404

Technical Elective

ENG 313

Technical Elective

MP Global Inquiry
or
Intercultural
Consciousness

Textual Description of Smart Manufacturing Engineering Course Flowchart

This chart shows the courses needed to graduate, when those courses are typically taken, and the order in which the courses must be taken. The main area of the chart shows four boxes, one each for first-year, sophomore, junior, and senior years. Within each year, classes are shown in roughly two columns representing fall then spring semester. Courses are listed within each semester to indicate when the course is typically taken. An arrow leaving a course and pointing to another course indicates that the first course must be taken prior to taking the second course. Below all the years is a section containing a collection of courses that can be taken when convenient for the student and therefore no particular semester is recommended. All students may have some variation in degree plans, be sure to be communication with your academic advisor.