

# Mechanical Engineering Course Flow (revised 04/23/2020)

Student:

Advising Dates:

1<sup>st</sup> Year

2<sup>nd</sup> Year

3<sup>rd</sup> Year

4<sup>th</sup> Year

Choose two each semester

CEC 101  
Computing,  
Engineering &  
Society  
(Fall only)

MME 102  
Intro to MME  
Or equivalent

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

MTH 151

MTH 251

PHY 191

PHY 192

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 Fine Arts

MP Global Perspective

CHM 141

CHM 144

ECO 201

MTH 246

MTH 252

STA 301  
or STA 261

(P/C) MTH 246

MME 305  
Measurements and  
Instrumentation

MP Intercultural  
Perspective

ENG 313

MP Biological  
Science

(P/C) MME211

MME 201  
Modeling and  
Design

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

MME 223  
Engineering  
Materials

(P) MTH 151  
(P) PHY 191  
(P/C) MME 102

MME 211  
Static Modeling  
of Mechanical  
Systems

(P) MTH 151  
(P/C) MTH 246

MME 202  
Numerical  
Methods

(P/C) MTH 251  
(P) PHY 192

ECE 205  
Electric Circuit  
Analysis

(P/C) STA 301  
or STA 261

MME 231  
Manufacturing  
Processes

(P) MTH 251

MME 312  
Mechanics of  
Materials

(P) MTH 251

MME 311  
Dynamic  
Modeling of  
Mechanical  
Systems

(P) MTH 252  
(P) PHY 191

MME/CPB 313  
Fluid Mechanics

(P) PHY 191  
(P) CHM 141  
(P) MTH 251

MME/CPB 314  
Engineering  
Thermodynamics

(P) MTH 246  
(P/C) MTH 252  
(P/C) MME 305

MME 321  
System  
Modeling

Senior Standing

MME 448  
Senior Design  
Projects

Senior Standing

MME 449  
Senior Design  
Projects

(P/C) MME/CPB  
403

MME 415  
Thermal Studio

(P) MTH 246

MME/CPB 403  
Heat Transfer

(P) MTH 151  
(P) MME 102  
(P/C) STA 301  
or STA 261

MME/CPB 341  
Engineering  
Economics

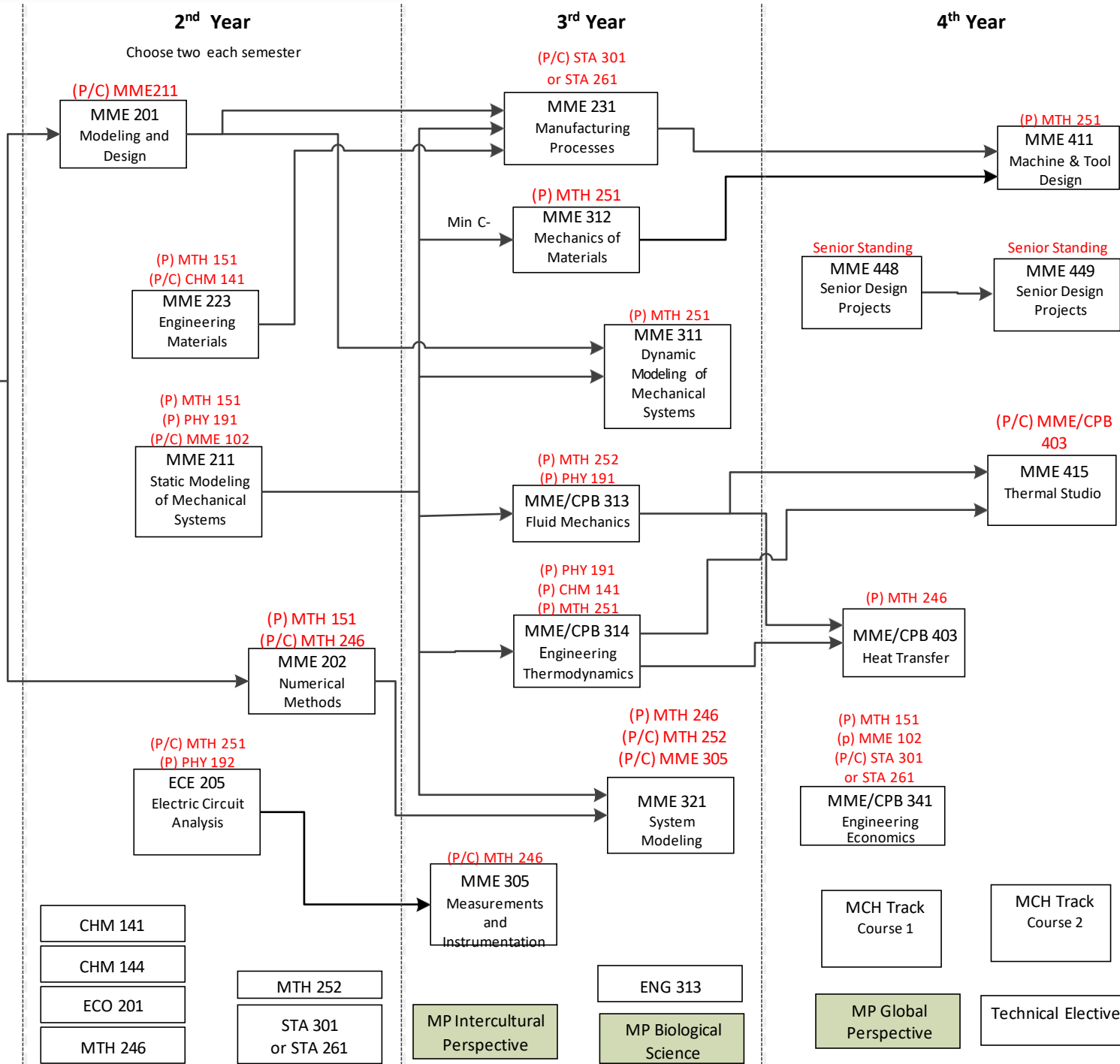
MCH Track  
Course 1

MP Global  
Perspective

MCH Track  
Course 2

Technical Elective

(P) MTH 251  
MME 411  
Machine & Tool  
Design



## Textual Description of Mechanical 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.