ME Undergraduate Program of Study	Name: Advisor:	**[FWS] = Fall Winter Spring** **indicates when course is offered**	.

Basic Requirements (15):
Chem (1.34) Math (4)
Physics (2.68) EA (4)
Speaking (1) DTC (2)

GEN_ENG 205-1
Eng Analysis I
[FW]

MATH 220-1
Single Var
Diff Calc
[FW]

MATH 220-2
Single Var
Int Calc
[FWS]

MATH 228-1
Multi Var
Diff Calc
[FWS]

MATH 228-2
Multi Var
Int Calc
[FWS]

COMM_ST 102
Or PERF _ST 103
Or PERF_ST 203

DSGN 106-1
Dsgn Thinking and
Communication I
[FW]

DSGN 106-2
Dsgn Thinking and
Communication II
[S]

CHEM 131/141
Or
CHEM 151/161
Or
CHEM 171/181

PHYSICS
135-2/136-2
E&M
[FW]

PHYSICS
135-3/136-3
Waves and Motion
[WS]

GEN_ENG 205-2
Eng Analysis II
[WS]

GEN_ENG 205-3
Eng Analysis III
[F S]

GEN_ENG 205-4
Eng Analysis IV
[FW]

Previous or concurrent registration in Math 228-2

MAT_SCI 201
Materials Science
[FWS]

CIV_ENV 216
Mech. of Materials
[FWS]

MECH_ENG 233
Electronics Design
[F]

MECH_ENG 222
Thermo I
[W]

MECH_ENG 241
Fluid Mech
[F S]

Mechanical Engineering Major Program (21): Required 12, Capstone 2, Math/Sci 1, and Concentration 6

MECH_ENG 240
Mech Design &
Manufacturing
[S]

MECH_ENG 224
Sci Embed Prog
Python
[W S]

MECH_ENG 377
Heat Transfer
[WS]

MECH_ENG 340-1
Manuf Processes
[F]

MECH_ENG 315
Thry of Machines:
Dsgn of Elements
[F S]

MECH_ENG 390
Intro to Dynamic
Systems
[F]

MECH_ENG 314
Dynamics
[F S]

Any 300-level course in basic mathematics or science, or COMP_SCI 212 or CHEM 215, or a course recommended as part of the chosen concentration and must choose one of the Concentrations for a total of 7 units: ME Breadth, Aerospace Engineering, Design, Energy Systems and Sustainability, Manufacturing, Mechanical Sciences, Robotics

Must be taken consecutively, within the last 12 units of BSME degree requirements.

MECH_ENG 398-1
Engineering Dsgn
[FW]

MECH_ENG 398-2
Engineering Dsgn
[WS]

	Theme Requirements (7) Refer to Undergraduate Curriculum on the ME Website	**Unrestricted Electives (5)**	**Instructions: Cross out classes that you have taken. Circle the concentration in the above list that you are following.**

SUGGESTED COURSE SCHEDULING

The course flowchart at this page identifies courses that are prerequisites for other courses
https://www.mccormick.northwestern.edu/mechanical/academics/undergraduate/curriculum/

Be sure to check current course listings to ensure course availability
https://www.mccormick.northwestern.edu/mechanical/academics/courses/

*** Please do not be in hurry to do the Unrestricted Electives early on as you can use those FIVE spots for: Study Abroad; Double Major; Minor; Certificate; etc.! ***

*** Even having a couple of spots open under Theme may help you when studying abroad, as you will have a wider selection of countries to go! ***

	FALL	**WINTER**	**SPRING**
Freshman	Gen Eng 205-1 Math 220-1 Chem 131/141 or 151/161 or 171/181 DSGN 106-1 or Theme	Gen Eng 205-2 Math 220-2 DSGN 106-1 or Theme or Mat_Sci 201	Gen Eng 205-3 Math 228-1 DSGN 106-2 Theme or Mat_Sci 201
Sophomore	Gen Eng 205-4 Math 228-2 CEE 216 ME 233	Phys 135-2/136-2 ME 222 ME 224 Mat_Sci 201 or **CEE 216**[#] Theme	Phys 135-3/136-3 ME 240 ME 314 **ME 224**[#] or Theme or Unrestricted Elective
Junior	ME 241 ME 340-1 ME 315 ME 314 or Theme or Unrestricted Elective	**ME 377**[#] Concentration Elective Concentration Elective or 3xx level Math/Science Theme or Unrestricted Elective	Comm_St 102 or, Perf-St 102 or 203, or BMD_Eng 390-2 ME 315 or ME 377 or **ME 241**[#] ME 314 or Concentration Elective or Theme or Unrestricted Elective
Senior	ME 390 ME 398-1: Capstone Design or Concentration Elective or 3xx level Math/Science Concentration Elective or Theme or Unrestricted Elective	ME 398-1 or -2: Capstone Design Concentration Elective Concentration Elective or 3xx level Math/Science Concentration Elective or Theme or Unrestricted Elective	ME 398-2: Capstone Design or Concentration Elective Concentration Elective or 3xx level Math/Science Concentration Elective or Theme or Unrestricted Elective

[#] These particular classes [ME 224 (s); ME 241 (s); ME 377 (w); and CEE 216 (w)] will have very limited capacity! Students should make plans to take these in *other* quarters.