

Common Mechanical Engineering Minors

Classes in **Grey** are curriculum requirements and are automatically satisfied

Classes in **Light Blue** can be used as curriculum electives

Classes in **Dark Blue** are additional credit hours that cannot be double counted in the curriculum

*May count as a restricted elective
#May count as an institutional elective
+May count as an MNE Elective

NUCLEAR ENGINEERING MINOR (0 additional credit hours)

NE 495 (3)
Elements of Nuclear Engineering
PR: MATH 221, PHYS 213

+NE CORE (3)
NE 612, NE 630, NE 690
Choose 2 of 3

+NE CORE (3)
NE 612, NE 630, NE 690
Choose 2 of 3

***NE Elective (3)**
See List

***NE Elective (3)**
See List



MANUFACTURING SYSTEMS MINOR (4 additional credit hours)

IMSE 250 (2)
Introduction to Manufacturing Systems
PR/CO: MATH 220

IMSE 251 (1)
Manufacturing Processes Laboratory
PR/CO: IMSE 250

IMSE 662 (3)
Computer Aided Manufacturing
PR: IMSE 251, ME 400

***IMSE 563 (3)**
Manufacturing Processes Engineering
PR: IMSE 251, CHE 355, CE 333, ME512

#IMSE Elective (3)
See List

#IMSE Elective (3)
See List



COMPUTER SCIENCE MINOR (6 additional credit hours)

#CIS 115 (2)
Introduction to Computing Science
PR/CO: CIS 116

#CIS 116 (1)
Introduction to Programming

***CIS 200 (3)**
Programming Fundamentals
PR: CIS 116
PR/CO: MATH 220

#CIS 300 (3)
Data and Program Structures
PR: CIS 200, MATH 220

CIS 301 (3)
Logical Foundations of Programming
PR: CIS 200 > C

ECE 241 (3)
Introduction to Electrical and Computer Engineering



MATH MINOR (0 additional credit hours)

MATH 220 (4)
Analytic Geometry and Calculus I

MATH 221 (4)
Analytic Geometry and Calculus II
PR: MATH 220 > C

MATH 222 (4)
Analytic Geometry and Calculus III
PR: MATH 221 > C

MATH 340 (4)
Elementary Differential Equations
PR: MATH 221 > C

MATH 551 (3)
Applied Matrix Theory
PR: MATH 220 > C



***MATH (3)**
Choice:
MATH 511/MATH 512
or
MATH 520/
MATH 633/MATH 630

#MATH (3)
Choice:
STAT 510/STAT 610
or
MATH > 500

PHYSICS MINOR (0 additional credit hours)

PHYS 213 (5)
Engineering Physics I
PR/CO: MATH 220

PHYS 214 (5)
Engineering Physics II
PR: PHYS 213, MATH 221

***PHYS 325 (4)**
Physics III
PR: PHYS 214
PR/CO: MATH 222

#PHYS Elective (3-5)
Any course with PHYS 325 as a PreReq
PR: PHYS 325



Open QR Codes below each minor to see official K-State Catalog information including Elective Lists

For advising purposes only. Students are responsible for complying with University Catalog requirements.

Common Mechanical Engineering Minors

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Classes in **Purple** are additional credit hours that cannot be double counted in the curriculum

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+May count as an MNE Elective

BUSINESS MINOR (7 additional credit hours)

ACCTG 231 (3)
Introduction to Managerial Accounting
PR: MATH 220

ACCTG 241 (3)
Introduction to Financial Accounting
PR: MATH 231

#MANGT 220 (3)
Principles of Management

#MKTG 250 (3)
Introduction to Marketing

ECON 110/120 (3)
ECON 110 - Principles of Macroeconomics
ECON 120 - Principles of Microeconomics
KSC-5

ME 535 (3)
Measurements and Instrumentations Laboratory
PR: ME 513 and ECE 519 OR ME 519

FINAN 450 (3)
Principles of Finance +1 Hour
Replaces: IMSE 530 (2)
PR: ACCTG 231, ME 535, ECON 110 or 120 (KSC-5)

FINAN 450 will replace IMSE 530 in the ME Curriculum for students who complete the Business Minor.

Business has an agreement with ME that ME 535 will count as the statistics prerequisite for FINAN 450

Choose ECON 110 or 120 as one KSC-5 elective to meet prerequisites for FINAN 450



ENTREPRENEURSHIP AND INNOVATION MINOR (9 additional credit hours)

#ENTRP 340 (3)
Business Innovation and the Entrepreneurial Mindset

#ENTRP 575 (3)
Entrepreneurship and Innovation Capstone

Elective (3)
See List

Elective (3)
See List

Elective (3)
See List



AIR FORCE ROTC AEROSPACE STUDIES MINOR (3 additional credit hours)

MATH 340 (4)
Differential Equations
PR: MATH 221 > C

HIST 155 (3)
U.S. Military History since 1775
KSC-6 Elective

#AERO 410 (3)
Regional Studies in Defense Policy

#AVT 386 (3)
Aerodynamics
PR: MATH 220

PHYS 109 (3)
Astronomy



LEADERSHIP STUDIES MINOR (6 additional credit hours)

LEAD 212 (3)
Introduction to Leadership Concepts
KSC-6 Elective

#LEAD 350 (3)
Culture and Context in Leadership

#LEAD 405 (3)
Leadership in Practice

LEAD 450 (3)
Senior Seminar in Leadership Studies

Elective (3)
See List



INDUSTRIAL DESIGN MINOR (9 additional credit hours)

#INDD 292 (3)
Design Thinking

#INDD 325 (3)
Human Factors in Industrial Design

INDD 350 (3)
Product Semantics

Elective (3)
See List

Elective (3)
See List



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