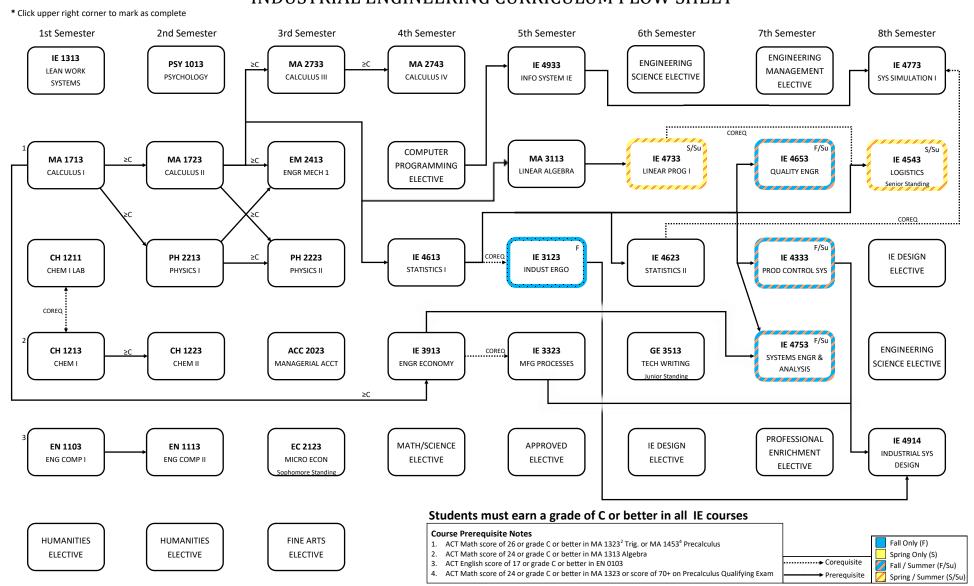


INDUSTRIAL & SYSTEMS ENGINEERING

INDUSTRIAL ENGINEERING CURRICULUM FLOW SHEET



ENGLISH (6 HOURS) EN 1103³ ENGLISH COMPOSITION I EN 1113 ENGLISH COMPOSITION II

FINE ARTS (3 HOURS)

3 FINE ARTS ELECTIVE

AAS 1103 African-American Music (MU 1103)
ARC 1013 Architectural Apprec. (BCS 1013)

ART 1013 Art History I
ART 1023 Art History II
ART 1113 Art Appreciation
CO 1503 Introduction to Theatre

HON 3173 Honors Seminar in Fine Arts ID 3643 History of Interiors

LA 1803 Landscape Architecture Appreciation
MU 1113 History & Appreciation of Music
MU 1123 History & Apprec. of American Music

MU 1133 History of Rock and Roll MU 1143 History of Jazz

MU 1163 Introduction to Music in Film

MU 1173 Music of the Beatles MU 2173 Women in Music

MU 3013 Survey of Western Music History I

PE 1323 History & Appreciation of Dance

PSS 2343 Floral Design

TKI 2413 Hist. & Appreciation of the Artcrafts

Fine Arts Selection:

NATURAL SCIENCES (13 HOURS)

CH 1213² CHEMISTRY I

CH 1211 INVESTIGATIONS IN CHEMISTRY I

CH 1223 CHEMISTRY II PH 2213 PHYSICS I PH 2223 PHYSICS II

MATHEMATICS (15 HRS)

MA 1713¹ CALCULUS I MA 1723 CALCULUS II MA 2733 CALCULUS III MA 2743 CALCULUS IV MA 3113 LINEAR ALGEBRA

SOCIAL SCIENCES (6 HOURS)

EC 2123 PRINCIPLES OF MICROECONOMICS PSY 1013 GENERAL PSYCHOLOGY

STUDENTS MUST CHECK COURSE DESCRIPTIONS FOR PREREQUISITE AND/OR GRADE REQUIREMENTS.

Fine Arts and Humanities elective lists are not exhaustive. See the Undergraduate Catalog for a complete listing. Effective date: August 1, 2020

HUMANITIES (6 HOURS)

3 HUMANITIES ELECTIVE 3 HUMANITIES ELECTIVE

AAS 1063 Intro. to African-American Studies AAS 2363 Intro. to African-American Lit. AAS 3013 African-American History to 1865 AAS 3023 African-American Hist. since 1865 ARC 2313 History of Architecture I

ARC 3313 History of Architecture II ARC 3323 History of Architecture III

BCS 2013 Construction and Culture EN 2203 Introduction to Literature

EN 2213 English Literature before 1800

EN 2223 English Literature after 1800 EN 2243 American Literature before 1865 EN 2253 American Literature after 1865

EN 2273 World Literature before 1600 EN 2283 World Literature after 1600

FL**1113 Language I

FL**1123 Language II FL**2133 Language III

FL**2143 Language IV

HI 1003 History of Science in Six Ideas HI 1013 History of Technology in Six Objects

HI 1063 Early U.S. History HI 1073 Modern U.S. History

HI 1163 World History before 1500 HI 1173 World History since 1500

HI 1213 Early Western World HI 1223 Modern Western World

HI 1313 East Asian Civilizations to 1300 HI 1323 East Asian Civilizations since 1300 HI 4683 Europe: First World War to Hitler

HON 1163 The Quest Begins

HON 3183 Honors Seminar in the Humanities

PHI 1103 Introduction to Philosophy

PHI 1113 Introduction to Logic PHI 1123 Introduction to Ethics

PHI 3023 History of Western Philosophy I

PHI 3033 History of Western Philosophy II

PHI 3153 Aesthetics

REL 1103 Introduction to Religion

REL 3213 World Religions I

REL 3223 World Religions II

Humanities Selections:

** Chinese (FLC), French (FLF), German (FLG), Greek (FLH), Italian (FLI), Japanese (FLJ), Latin (FLL), Russian (FLR), and Spanish (FLS).

MAJOR CORE:

MATH/SCIENCE ELECTIVE (3 HOURS)

3 MATH/SCIENCE ELECTIVE APPROVED MATH/SCIENCE ELECTIVES:

BIO 1134 Biology I CH 2313 Analytical Chemistry

CH 2313 Analytical Chemistry GG 4153 Engineering Geology

GG 4233 Applied Geophysics MA 3053 Foundation of Math I

MA 3253 Differential Équations I MA 4143 Graph Theory

MA 4313 Numerical Analysis I PH 2233 Physics III

ST 4213 Nonparametric Methods

Math/Science Selection:

ENGINEERING TOPICS (12 HOURS)

EM 2413 ENGINEERING MECHANICS I

3 ENGINEERING SCIENCE ELECTIVE
ENGINEERING SCIENCE ELECTIVES:

APPROVED ENGINEERING SCIENCE ELECTIVES:

ABE ASE CE CHE CSE ECE EM ME

Engineering Science Selection (1):

Engineering Science Selection (2):

3 COMPTR PROGRAMMING ELECTIVE APPROVED COMPTR PROGRAMMING ELECTIVES: CSE 1233 Computer Programming with C

CSE 1284 Introduction to Computer Programming

Computer Programming Selection:

INDUSTRIAL ENGINEERING (52 HOURS)

IE 1313 LEAN WORKS SYSTEMS
IE 3123 INDUSTRIAL ERGONOMICS

IE 3323 MANUFACTURING PROCESSES

IE 3913 ENGINEERING ECONOMY I IE 4333 PRODUCTION CONTROL SYSTEMS I

IE 4333 PRODUCTION CONTROL SYSTEMS
IE 3 ENGR MANAGEMENT ELECTIVE
APPROVED ENGR MANAGEMENT ELECTIVES:

IE 4513 Engineering Administration IE 4533 Project Management

IE 4533 Project Management
IE 4543 LOGISTICS ENGINEERING

IE 4613 ENGINEERING STATISTICS I

IE 4623 ENGINEERING STATISTICS II

IE 4653 QUALITY ENGINEERING IE 4733 LINEAR PROGRAMMING I

IE 4753 SYSTEMS ENG & ANALYSIS IE 4773 SYSTEMS SIMULATION I

IE 4914 INDUSTRIAL SYSTEMS DESIGN

IE 4933 INFORMATION SYSTEMS IN IE

IE __3 IE DESIGN ELECTIVE
IE __3 IE DESIGN ELECTIVE

Engineering Management Selection:

IE Design Elective Selection (1):

IE Design Elective Selection (2):

OTHER (12 HOURS)

ACC 2023 MANAGERIAL ACCOUNTING GE 3513 TECHNICAL WRITING

3 PROF. ENRICHMENT ELECTIVE This elective is to aid students in the enrichment of the undergraduate program in a professional manner. The course is chosen in consultation with advisor to support the student in the advancement of their educational and career goals. To meet this requirement, a grade of C or better must be achieved in the selected course.

3 APPROVED ELECTIVE

Students may choose nearly any course or combination of courses totaling three credit hours or more. Exceptions which students may not choose are remedial courses, LSK courses, and physical education courses outside of varsity sports.