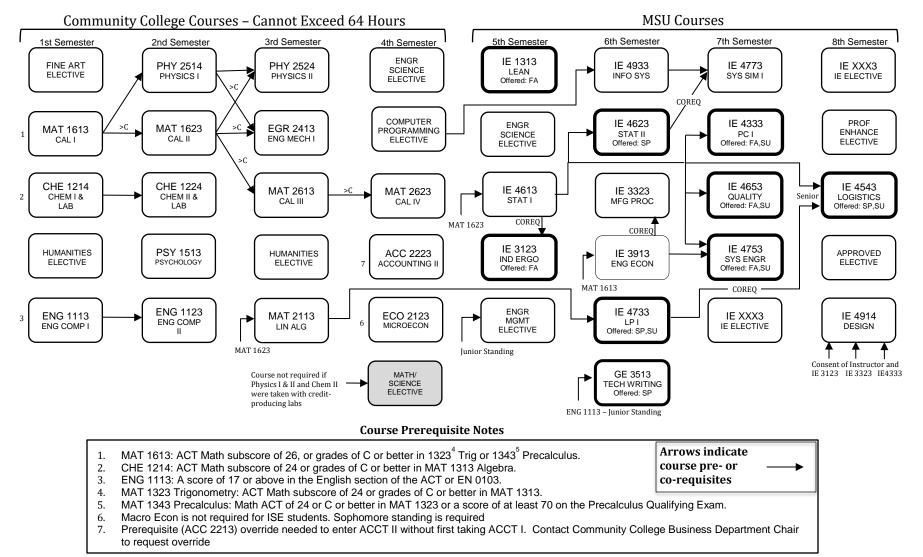


INDUSTRIAL & SYSTEMS ENGINEERING

INDUSTRIAL ENGINEERING CURRICULUM FLOW SHEET – **STARTING FALL 2020**



To take a required IE course, students must have a grade of C or better in each prerequisite IE course. P.O. Box 100 | Health Sciences Building – Office 140 | 2300 Hwy 90 | Gautier, MS 39553 | P. 228.497.7669 | jse.msstate.edu

REQUIRED HOURS:

OTHER ENGINEERING (12 HOURS) MATH/SCIENCE ELECTIVE MATHEMATICS (15 HRS) PH 2233 Physics III EGR 2433 ENGINEERING MECHANICS I MAT 1613 CALCULUS I _____3 ENGINEERING SCIENCE ELECTIVE* MAT 2913 Differential Equations (Comm. College) MAT 1623 CALCULUS II _____3 ENGINEERING SCIENCE ELECTIVE* MA 3253 Differential Equations I MAT 2613 CALCULUS III MA 3053 Foundation of Math I ____3 COMPUTER PROGRAMMING MAT 2623 CALCULUS IV ELECTIVE* MA 4143 Graph Theory MAT 2113 LINEAR ALGEBRA MA 4313 Numerical Analysis I MA 4533 Probabilistic Random Process **CHEMISTRY (8 HOURS)** SOCIAL SCIENCES (6 HOURS) ECO 2123 PRINCIPLES OF MICROECONOMICS ST 4213 Nonparametric Methods CHE 1214 CHEMISTRY I AND LAB PSY 1013 GENERAL PSYCHOLOGY CH 2313 Analytical Chemistry CHE 1224 CHEMISTRY II AND LAB BIO 1134 Biology I *Listed in Columns 3 and 4 GG 4153 Engineering Geology PHYSICS (8 HOURS) GG 4233 Applied Geophysics PHY 2514 PHYSICS I-A PHY 2524 PHYSICS II-A HUMANITIES ELECTIVES MATH/SCIENCE ELECTIVE (3 HOURS) AAS 1063 Introduction to African American Studies _3 MATH/SCIENCE ELECTIVE* ARC 2313 History of Architecture I ARC 3313 History of Architecture II FINE ARTS (3 HOURS) ARC 3323 History of Architecture III 3 FINE ARTS ELECTIVE* EN 2203 Introduction to Literature EN 2213 English Literature HUMANITIES (6 HOURS) EN 2223 English Literature 3 HUMANITIES ELECTIVE* EN 2243 American Literature ____3 HUMANITIES ELECTIVE* EN 2253 American Literature EN 2273 World Literature COMMUNICATION (12 HOURS) EN 2283 World Literature ENG 1113 ENGLISH COMPOSITION I FL***1113Language I ENG 1123 ENGLISH COMPOSITION II FL***1123Language II GRA 1143 GRAPHIC COMMUNICATION FL***2133 Language III GE 3513 TECHNICAL WRITING FL***2143 Language IV HI 1063 Early U.S. History **OTHER (3 HOURS)** HI 1073 Modern U.S. History ACC 2023 MANAGERIAL ACCOUNTING World History before 1500 HI 1163 А HI 1173 World History since 1500 **INDUSTRIAL ENGINEERING (58 HRS)** А Early Western World HI 1213 С IE 1313 LEAN Modern Western World HI 1223 IE 3123 INDUSTRIAL ERGONOMICS C East Asian Civilizations to 1300 HI 1313 IE 3323 MANUFACTURING PROCESSES HI 1323 East Asian Civilizations since 1300 ENGINEERING ECONOMY I C IE 3913 HI 4683 Europe: The First World War to Hitler IE 4333 PRODUCTION CONTROL SYSTEMS I C HON 1163 The Quest Begins IE 4543 LOGISTICS ENGINEERING C HON 3183 Honors Seminar in the Humanities Ε ENGINEERING STATISTICS I IE 4613 PHI 1103 Introduction to Philosophy IE 4623 ENGINEERING STATISTICS II E PHI 1113 Introduction to Logic Ε IE 4653 QUALITY ENGINEERING PHI 1123 Introduction to Ethics PHI 3023 History of Western Philosophy: Part I F IE 4733 LINEAR PROGRAMMING I Ε IE 4753 SYSTEMS ENGINEERING & PHI 3033 History of Western Philosophy: Part II E ANALYSIS PHI 3153 Aesthetics IE 4773 SYSTEMS SIMULATION I Ν REL 1103 Introduction to Religion Ν IE 4914 DESIGN OF INDUSTRIAL SYSTEMS REL 3213 World Religions: Part I Ν IE 4933 INFORMATION SYSTEMS FOR IE REL 3223 World Religions: Part II IE ____3 IE ELECTIVE* IE ____3 IE ELECTIVE* *** French (FLF), German (FLG), Greek (FLH), IE ____3 ENGINEERING MANAGEMENT Japanese (FLJ), Latin (FLL), Russian (FLR), and ELECTIVE* Spanish (FLS) IE ____3 PROFESSIONAL ENHANCEMENT ELECTIVE* PROFESSIONAL ENRICHMENT ELECTIVE IE ____3 APPROVED ELECTIVE* Any class that aids in the enrichment of their undergraduate program. A class that counts toward a minor or certificate, an F.E. prep class, etc.

ELECTIVE CHOICES: Unless stated otherwise, course numbers correspond to MSU catalog

IE ELECTIVES

Any three-hour non-required industrial engineering course.

FINE ARTS ELECTIVE

ARC 1013 Architectural Appreciation ART 1013 Art History I ART 1023 Art History II ART 1113 Art Appreciation BCS 1013 Architectural Appreciation CO 1503 Introduction to Theatre HON 3173 Honors Seminar in Fine Arts ID 3643 History of Interiors LA 1803 Landscape Appreciation MU 1113 History and Appreciation of Music MU 1133 The History of Rock and Roll MU 2213 History and Literature of Music I MU 2323 History and Literature of Music II PE 1323 History and Appreciation of Dance PSS 2343 Floral Design TKI 2413 History and Appreciation of the Artcrafts COMPUTER PROGRAMMING ELECTIVE CSC 2133 Advanced Computer Programming C

(Comm. College) CSC 2134 Programming I with C+ (Comm. College) CSC 2134A Programming I with C++ (Comm. College) CSE 1233 Computer Programming with C CSE 1284 Intro to Computer Programming

ENGINERING SCIENCE ELECTIVES

ABE 3413	Bioinstrumentation
ABE 3513	GPS & GIS in Ag. & Eng.
ABE 4613	Biomechanics
CE 2803	Environmental Engineering
CE 3113	Transportation Engineering
CE 3603	Structural Mechanics
CHE 2213	Chemical Engineering Analysis
CHE 3113	Chemical Engineering Thermodynamics
CHE 3413	Engineering Materials
ECE 3413	Intro to Electronic Circuits
ECE 4483	Intro. To Remote Sensing
EGR 2433	Engineering Mechanics II (Com. College)
EM 2433	Engineering Mechanics II
EM 3213	Mechanics of Materials
EM 3313	Fluid Mechanics
AE 3513	Thermodynamics I
AE 3403	Materials for ME Design
AE 3113	Engineering Analysis

ENGINEERING MANAGEMENT ELECTIVE

IE 4513 Engineering Administration IE 4533 Project Management

APPROVED ELECTIVE

Almost any non-remedial, non-LSK, non-physical education (excluding varsity sports) course. To be discussed with advisor.