

Engineering Dual Degree Requirements

Electrical Engineering & Economics

University Core Curriculum

Common Core Requirements

	Credits
FYS 101 First Year Seminar	3
FYS 102 First Year Seminar	3
GHS 201-209 Global and Historical Studies	3
GHS 201-209 Global and Historical Studies	3

General Core Requirements

	Credits
TI Text and Ideas	3
PCA Perspectives in the Creative Arts	3
SW <i>The Social World (exempt)</i>	3
AR <i>Analytical Reasoning (exempt)</i>	3
NW <i>The Natural World (exempt)</i>	5
PWB Physical Well-Being	1
Core Credits	19(30)

Additional Core Requirements

BCR Butler Cultural Requirement	8 events
ICR Indianapolis Community Requirement	1 course
SAC Speaking Across the Curriculum	1 course
WAC Writing Across the Curriculum	1 course

Liberal Arts and Science Requirements

	Credits
Foreign Language (min 6 cr 200 level or above) Spanish, French, German, Chinese, Latin	6-14
Credits	25-33

Common Engineering

Mathematics

	Credits
MA 106 Calculus & Analytical Geometry 1 ⁺	4
MA 107 Calculus & Analytical Geometry 2	4
MA 208 Calculus & Analytical Geometry 3	4
MA 215 Linear Algebra	3
MA 334 Differential Equations	3

Science

	Credits
CH 105 General Chemistry 1	5
CH 106 General Chemistry 2	5
PH 201 Introduction to Analytical Physics 1 ¹	5
PH 202 Introduction to Analytical Physics 2	5

Engineering

	Credits
DD 190 Elementary Engineering Design	3
DD 297 MATLAB	1
CS 142 Intro to Computer Science & Prog	3

Other

	Credits
COM 101 Rhetoric and the American Demo	3
TCM 250 Career Planning for Engineers	1
TCM 360 Comm in Engineering Practice (WAC/SAC)	2
ENGR 200 Engineering Internship	1
Credits	52

Economics

	Credits
MS 100 <i>Basic Excel Skills</i> ¹	-
MS 264 <i>Business Statistics</i> ²	-
MS 265 Information Technology	3
EC 231 Principles of Microeconomics ³	3
EC 232 Principles of Macroeconomics	3
EC 332 Intermediate Macroeconomics	3
EC 354 Intermediate Microeconomics	3
EC 464 Quantitative Methods-Econometrics	3
Economics Electives (choose 4)	12
EC 336 Comparative Economic Systems	
EC 339 Economic History of the United States	
EC 342 Law and Economics	
EC 346 Health Care Economics	
EC 351 Urban Economics	
EC 352 Personnel Economics (WAC)	
EC 355 Money & Banking	
EC 391 Environmental & Natural Resources	
EC 433 International Economics	
EC 434 Economics of Taxation & Public Expenditures	
EC 438 Economic History of Europe	
EC 462 Mathematical Economics	
EC 495 Special Topics in Economics	
Credits	30

Electrical Engineering

	Credits
ECON 201 <i>Microeconomics</i> ³	-
PH 351 Analog Electronics (WAC)	4
ME 295 Mechanics and Heat	3
ECE 202 Circuit Analysis II	3
ECE 208 Electronic Devices & Design Lab	1
ECE 210 Sophomore Seminar	1
ECE 255 Intro to Electronics Analysis & Design	3
ECE 264 Advanced C Programming	2
ECE 270 Digital Logic Design	4
ECE 301 Signals and Systems	3
ECE 302 Probabilistic Methods ²	3
ECE 311 Electric and Magnetic Fields	3
ECE 362 Microprocessors Systems & Interface	4
ECE 382 Feedback Systems Analysis	3
ECE 401 Engineering Ethics	1
ECE 440 Intro to Communication System Analysis	4
ECE 487 Senior Design I	1
ECE 488 Senior Design II	2
EE Electives	15
Credits	60

167 - 175 Total Credits

¹⁻³ used as equivalents for degree requirements

⁺ also required for Economics major