

Macomb Coursework – Before Transfer:

General Education	23-27 Hrs
ENGL 1190: Communications 1 or ENGL 1220: Composition 1 Note: A Macomb prerequisite course is required.	6-8
Select one course: ARTT 1610, 2610, 2620; HIST 2340; HUMN 1210, 1270, 1300, 1460; MUSC 1030	3-4
Select one course: ARAB, CHIN, FREN, GRMN, ITAL, SPAN 1260, 1270, 2360, 2370	4
Select one course: GEOG 2000; HIST 2650; POLS 1600; INTL 2000, 2300, 2500, 2700	4
Select one course: ENGL 2510, 2520, 2610, 2710, 2720, 2730, 2800, 2810, 2850; HUMN 1750	3
Select one course: HIST 1500, 1600, 1700, 2000, 2100, 2200, 2360; PHIL 2010, 2100	3-4
Select one of the following from a group above: HIST 2100, 2200; HUMN 1270, 1460; POLS 1000	0

Pre-Engineering and Core Requirements	40-43 Hrs
MATH 1760: Analytic Geometry & Calculus 1	4
MATH 1770: Analytic Geometry & Calculus 2	4
MATH 2760: Analytic Geometry & Calculus 3	4
MATH 2000: Introduction to Linear Algebra	3
MATH 2770: Differential Equations	4
CHEM 1170: General Chemistry 1	4
CHEM 1180: General Chemistry 2 Or BIOL 1000: General Biology 1	4
PHYS 2220: Analytical Physics I	5
PHYS 2230: Analytical Physics II	5
ECON 1160: Principles of Economics I	3
ITCS 2220: Advanced Visual Basic* (Optional) *A Macomb prerequisite course is required.	0-3

Minimum cumulative 2.8 GPA required. Total credits = 69-77. OU accepts a maximum of 64 credits.

Select credit minimums to optimize transfer credit.

OU Coursework – After Transfer:

Major/Core Requirements	17-21 Hrs
EGR 120: Engineering Graphics & CAD	1
EGR 141: Computer Problem Solving I (If ITCS 2220 is not taken at Macomb)	0-4
EGR 240: Intro to Electrical & Computer Engineering	4
EGR 250: Intro to Thermal Engineering	4
EGR 260: Intro to Industrial & Systems Engineering	4
EGR 280: Design & Analysis of Electro Mechanical Systems	4

Electrical Engineering Professional Courses	36 Hrs
ECE 276: Circuits & Systems	4
ECE 335: Signals & Systems	3
ECE 345: Electric & Magnetic Fields	3
ECE 327: Electronic Circuits and Devices	4
ECE 351: Electromechanical Conversion	3
ECE 378: Design of Digital Logic & Microprocessor Design	4
ECE 431: Automatic Control Systems	4
ECE 437: Communication Systems	4
ECE 491: Senior Design	4
ECE 384: Electronic Materials and Devices	3

Professional Electives	7-11 Hrs
Selected with academic advisor assistance	7-11

Maximum Macomb Credits = 64**Minimum OU Credits = 64****Total Credits for Bachelor of Science in Electrical Engineering = 128**

Note: A grade of C- or better is required for a course to transfer. This guide and its requirements are subject to change and should be used in consultation with an academic advisor.