

**Macomb Coursework – Before Transfer:**

<b>General Education</b>	<b>22-27 Hrs</b>
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	3-4
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 You will; fulfill 2 requirements with a single course. HIST 2100, 2200; HUMN 1270, 1460; POLS 1000	0

<b>Pre-Engineering Core Requirements</b>	<b>43-46 Hrs</b>
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 1	5
PHYS 2230: Analytical Physics 1	5
ECON 1160: Principles of Economics 1	3
Select one course: ENGR 1150; PRDE 1400, 1410, 1450, 1510, 1610, 2500, 2600, 2610	3
ITCS 2220: Advanced Visual Basic (Optional) Note: A Macomb prerequisite course is required.	0-3

Minimum cumulative 2.8 GPA required. Total credits = 69–72. OU accepts a maximum of 64 credits.

**OU Coursework – After Transfer:**

<b>Major/Core Requirements</b>	<b>16-20 Hrs</b>
EGR 120: Engineering Graphics and CAD	1
EGR 141: Computer Problem Solving (If ITCS 2220 was 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

<b>Mechanical Engineering Professional Courses</b>	<b>35 Hrs</b>
ME 308: Computer Aided Design	3
ME 322: Engineering Mechanics	4
ME 331: Introduction to Fluid and Energy Transport	4
ME 361: Mechanics of Materials	4
ME 372: Properties of Materials	4
ME 421: Vibrations and Controls	4
ME 486: Mechanical Systems Design	4
ME 456 or ME 482: Energy Systems Analysis & Design or Fluid & Thermal Systems Design	4
ME 492 or ME 490: Senior Mech. Engineering Design Project or Senior Project	4

<b>Professional Electives</b>	<b>12 Hrs</b>
Selected with academic advisor assistance	12

**Maximum Macomb Credits = 64****Minimum OU Credits = 64****Total Credits for Bachelor of Science in Mechanical 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.