

Macomb Coursework – Before Transfer:

General Education & Competency Requirements	33-36 Hrs
Basic Composition and Macomb Requirement: ENGL 1180: Communications 1 and ENGL 1190: Communications 2 or ENGL 1210: Composition 1 and ENGL 1220: Composition 2	6-8
Math Competency Major Requirement: MATH 1760: Analytic Geometry & Calculus 1	4
American Society and Institutions: POLS 1000: Introduction to American Politics	4
Historical Studies: HIST 2000: History of Invention & Technology in America	3
Life Science: BIOL 1000: General Biology 1	4
Physical Science: CHEM 1170: General Chemistry 1	4
Social Science: ECON 1160: Principles of Economics 1	3
Visual & Performing Arts: Select one course: ARTT 1610, 2610, 2620; HUMN 1210, 1300, 1460; MUSC 1030	3
Associate Degree Requirement: PHED 2000 or higher—Wellness course	2-3

Major Requirements	34-35 Hrs
DRCG 1140: Interactive Computer Graphics or PRDE 1500: Unigraphics—Introduction to Solid Modelling	3-4
ENGR 1000: Introduction to Engineering or PRDE 2000: Product Development Process or PRDE 2100: Design & Intent Analysis	3
MATH 1770: Analytic Geometry & Calculus 2	4
MATH 2000: Introduction to Linear Algebra	3
MATH 2760: Analytic Geometry & Calculus 3	4
MATH 2770: Differential Equations	4
PHIL 2120: Professional Ethics	3
PHYS 2220: Analytical Physics 1	5
PHYS 2230: Analytical Physics 2	5

WSU Coursework – After Transfer:

General Education Requirements	9-12 Hrs
Foreign Culture: ANT 3150: Anthropology of Business	3
Critical Thinking: PHI 1050 or WSU Exam	0-3
Intermediate Composition: ENG 3050: Technical Communication I	3
Oral Communication: ENG 3060: Technical Communication II	3

Major Requirements	65 Hrs
BE 1300/1310: Material Science	4
BE 2100: Probability/Statistics Engineering Applications	3
BE 2550: Numerical Methods	3
ECE 3300: Introduction to Electrical Circuits	3
ECE 3310: Electrical Circuits Lab	1
ME 2200: Thermodynamics – Theory	3
ME 2410: Statics	3
ME 2420: Mechanics of Materials	3
ME 3300: Fluid Mechanics – Theory & Lab	3
ME 3400: Dynamics	3
ME 3450: Manufacturing Processes	3
ME 4150: Design Machine Element	4
ME 4210: Heat Transfer & Lab	4
ME 4300: Thermal Fluid System Design	4
ME 4410: Vibration Theory & Lab	4
ME 4420: Control Dynamic Systems	4
ME 4500: WI-ME Design II	4
ME 5xxx: ME 5000 level elective	4
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Maximum Macomb Credits = 64**Minimum WSU Credits = 74****Minimum Credits for BS in Mechanical Engineering = 138**

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.