

Macomb Community College:
Associate of Science (AS) in Pre-Engineering

Wayne State University:
Bachelor of Science (BS) in Mechanical Engineering

Macomb Coursework -- Before Transfer:

<p>General Education--Michigan Transfer Agreement plan* Fulfilling the requirements of the MTA and having it certified by MCC allows for all of WSU's lower-level general education courses to be satisfied. For more information, visit http://www.macomb.edu/transfer Of the lists below, "Any" excludes courses numbered 29XX and SPAN 1265.* After transfer, two 3000-4000 level general education courses are required to be taken.</p>	<p>Minimum 30 credit hours</p>
<p>English Composition--2 courses: ENGL 1180 and ENGL 1190 or ENGL 1210 and ENGL 1220</p>	<p>6-8 hrs</p>
<p>Humanities & Fine Arts--2 courses: Select: PHIL 2120 and Select one from the following: ARTT 2650, 2660; HUMN 1210, 1300, 1460, 1472, 1473, 1474, 1476; MUSC 1030</p>	<p>3-4 hrs</p>
<p>Mathematics--1 course: MATH 1760</p>	<p>4 hrs</p>
<p>Natural Sciences with at least 1 Lab--2 courses: Select: BIOL 1000 CHEM 1170</p>	<p>8 hrs</p>
<p>Social Sciences--2 courses: ECON 1160 HIST 2000</p>	<p>6 hrs</p>
<p>An additional course from the above lists may need to be taken to reach the 30 credit hour minimum per MTA requirements. Students may also meet the WSU general education and proficiency requirements without following the MTA plan. These students will need to speak to a WSU academic advisor to have their transcripts evaluated.</p>	

<p>Major Coursework: Pre-Professional Program admission requirements: * Completion of at least (12) credits of college-level coursework * A minimum GPA of 2.5 in all college-level courses * A minimum GPA of 3.0 in all Math and Science courses * Completion of the following courses at Macomb with a grade of "C" (2.0) or higher or placement into their WSU equivalents.</p>	<p>36 Hrs</p>
<p>MATH 1770</p>	<p>4</p>
<p>MATH 2000</p>	<p>3</p>
<p>MATH 2760</p>	<p>4</p>
<p>MATH 2770</p>	<p>4</p>
<p>PHYS 2220</p>	<p>5</p>
<p>PHYS 2230</p>	<p>5</p>
<p>POLS 1000</p>	<p>4</p>
<p>Select one: ENGR 1000; PRDE 2000; PRDE 2100</p>	<p>3</p>
<p>DRCG 1140</p>	<p>4</p>

WSU Coursework -- After transfer:

Major Requirements	69 Hrs
BE 1300 & 1310: Material Science	4
BE 1500: Intro to Programming/Computation for Engineers	3
BE 2100: Probability / Statistics Engineering Applications	3
ECE 3300: Introduction to Electrical Circuits	4
ENG 3060 Oral Communication requirement	3
ME 2500: Numerical Methods using MATLAB	2
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 credits at Wayne State University = 69****Total credits for the Bachelor of Science in Mechanical Engineering = 133**

Note: Students can be admitted to Wayne State as a transfer student if they have at least 24 transferable credits of previous college work and a minimum 2.5 cumulative grade-point average from all higher education institutions they have attended. Students who have completed an Associate Degree may be admitted with a grade point average of 2.0 or better.

Date: 7-1-16