



ARTICULATION GUIDE

Macomb Community College- Product Development: Vehicle Design LTU – Bachelor of Science in Engineering Technology Based on MCC 2007-08 Catalog and LTU 2005-07 Catalog

Macomb Community College Courses: Associate Degree Requirements (71 credits)

1 st Semester	HRS	3 rd Semester	HRS
PRDE 1000: <i>Fundamentals of Design</i> PRDE 1100: <i>Design Communications</i> PRDE 1300: <i>Industrial & Materials Processes</i> QUAL 1201: <i>Geometric Dimension & Tolerancing</i> Arts & Sciences Group I A: (English Comp) ENGL 1180 or ENGL 1210: <i>Communication or Comp 1</i>	4 4 4 3 3-4	PRDE 1700: <i>Team Centered Engineering</i> PRDE 2000: <i>Production Development Process</i> PRDE 2100: <i>Design Intent & Analysis</i> Arts & Sciences Group II: (Math/Science) PHYS 1180: <i>Recommended by LTU</i> Arts & Sciences Group IV: (Humanities) <i>A Class in one of the following disciplines:</i> ARTT, Foreign Languages, HUMN, MUSC, PHIL	3 3 3 4 4
2 nd Semester		4 th Semester	
PRDE 1200: <i>Theory of Sheet Metal Fabrication</i> QUAL 2400: <i>Project Management</i> PRDE 1600 & 1610 CATIA V5: <i>Intro & Solid Modeling</i> or PRDE 1500 & 1510: <i>Unigraphics Intro to Solid Modeling</i> Arts & Sciences Group I B: (English Comp) ENGL 1190 or 1220: <i>Communication or Comp 2</i>	3 3 6 3-4	PRDE 2420: <i>Capstone Project</i> PRDE 2400: <i>Plastics Design & Manufacturing</i> PRDE 2410: <i>Vehicle Systems Overview</i> Arts & Sciences Group III: (Social Science) <i>A Class in one of the following disciplines:</i> ANTH, ECON, GEOG, HIST, POSC, PSYC, SOCY, SOSOC Arts & Sciences Group V: (Physical Ed) Any PHED Wellness Course- 2000 or above	3 3 4 3-4 2
Additional Coursework		Transfer to LTU as:	
MATH 1420 & 1430: <i>College Algebra & College Trig.</i> or MATH 1450: <i>College Algebra & Trigonometry</i> MATH 1370: <i>Calculus for Business & Social Sciences</i> or MATH 1760: <i>Analytic Geometry & Calculus 1</i> MATH 1340: <i>Statistics</i> PHYS 1190: <i>College Physics 2</i> CHEM 1050: <i>Introduction to General Chemistry</i> ECON 1160: <i>Principles of Economics 1</i> MGMT 1010: <i>Principles of Management</i> One Humanities Course** One Social Science Course**	4-6 4 4 4 4 3 3 3 3	MCS 1113: <i>Technical Mathematics 1</i> MCS 1123: <i>Technical Mathematics 2</i> or MCS 2313: <i>Technical Calculus</i> MCS 2023: <i>Statistical Methods</i> PHY 1083 & 1101: <i>Technical Physics 2 & Lab</i> CHM 3144: <i>Fundamentals of Chemistry</i> SSC 2303: <i>Basic Economics</i> MGT 2203: <i>Management & Supervision</i> LLT 1223: <i>World Masterpieces 2</i> SSC 2423: <i>Development of the American Exp</i>	3 3 3 3 4 3 3 3 3
<small>**Please refer to MACRAO guidelines or transfer guide sheet to find transferable courses for Humanities and Social Science courses. MACRAO Math requirement met by taking a course above</small>			



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Completion of the BSET Degree at LTU	Hrs
Technology Core	23
HRM 4013 Employee Management Relations 3	
OPM 3113 Operations Management.....3	
TIE 2063 Manufacturing Processes.....3	
TIE 2163 Engineering Economics.....3	
TIE 4115 Senior Project.....5	
TME 4103 Engineering Materials 2.....3	
TME 2053 or TME 3113.....3	
Remaining Arts & Sciences Courses	9
MCS 1023 Tech Computer Applications3	
MCS 2323 Applied Diff. Equations.....3	
LLT/SSC/PSY Jr./Sr. Elective.....3	
Notes: COM 3000: Writing Proficiency Exam (must be taken during first semester at LTU.)	
COM 1001: University Seminar (Articulation participants excused from the requirement)	
Credits Completed at Macomb =	97
Credits Transferred to LTU =	93
Minimum Credits at LTU =	32
Minimum Credits to Graduate =	125