



**ARTICULATION GUIDE**  
**Macomb Community College- Civil Technology**  
**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 (65 Hrs)**

1 <sup>st</sup> Semester	Hrs	3 <sup>rd</sup> Semester	Hrs
<b>CIVL 1000:</b> <i>Materials</i>	3	<b>CIVL 1050:</b> <i>Const Safety Policies &amp; Procedures</i>	3
<b>CIVL 1010:</b> <i>Civil Technology Seminar</i>	1	<b>CIVL 2200:</b> <i>Soils &amp; Foundations</i>	3
<b>SURV 1100:</b> <i>Elementary Surveying</i>	3	<b>DRAD 2230:</b> <i>Construction Specifications</i>	3
<b>Arts &amp; Sciences: Group II: (Math/Science)</b>	3	<b>ATTR 1150:</b> <i>Technical Report Writing</i>	2
<b>MATH 1430:</b> <i>College Algebra</i>	3	<b>Arts &amp; Sciences Group I –A: (English Comp)</b>	3-4
<b>DRAD 1110:</b> <i>Intro to Architectural Drafting</i>	3	<b>ENGL 1180 or 1210:</b> <i>Communication or Comp 1</i>	
2 <sup>nd</sup> Semester		4 <sup>th</sup> Semester	
<b>Arts &amp; Sciences Component: Group III</b>	3	<b>CIVL 2220:</b> <i>Materials Testing</i>	3
<b>POLS 1200:</b> <i>Local &amp; State Government</i>	3	<b>CIVL 2210:</b> <i>Drainage &amp; Geology</i>	3
<b>ITCS 1010:</b> <i>Computer &amp; Info Processing Prin.</i>	3	<b>SURV 2220:</b> <i>Civil &amp; Survey Drafting</i>	3
<b>SURV 1200:</b> <i>Route Surveying</i>	4	<b>Arts &amp; Sciences Group I –B: (English Comp)</b>	3-4
<b>DRCG 1140:</b> <i>Interactive Computer Graphics</i>	4	<b>ENGL 1190 or 1220:</b> <i>Communication or Comp 2</i>	2
<b>Arts &amp; Sciences Group IV: (Humanities)</b> <i>One Class from the following disciplines: ARTT, Foreign Languages, HUMN, MUSC, PHIL</i>	4	<b>Arts &amp; Sciences Group V: (Physical Ed)</b> <i>Any PHED Wellness Course- 2000 or above</i>	
<b>Note: 4 Semester Credit Totals =</b>	<b>59-61</b>	<b>Note: Arts &amp; Sciences Groups 1-IV apply to the Completion of MACRO requirements.</b>	
Macomb MACRAO & Bridge Courses		LTU Equivalents	
<b>MATH 1370 or 1760:</b> <i>Calculus</i>	4	<b>MCS 2313:</b> <i>Technical Calculus</i>	3
<b>MATH 1340:</b> <i>Statistics</i>	4	<b>MCS 2023:</b> <i>Statistical Methods</i>	3
<b>PHYS 1180 &amp; 1190:</b> <i>College Physics 1 &amp; 2</i>	8	<b>PHY 1063 &amp; 1083:</b> <i>Tech Physics 1 &amp; 2</i>	6
<b>CHEM 1050:</b> <i>Introduction to General Chemistry</i>	4	<b>PHY 1100 &amp; 1101:</b> <i>Technical Physics Labs</i>	-
<b>ECON 1160:</b> <i>Principles of Economics 1</i>	3	<b>CHM 3144:</b> <i>Fundamentals of Chemistry</i>	4
<b>One Humanities Course**</b>	3	<b>SSC 2303:</b> <i>Basic Economics</i>	3
<b>One Social Science Course**</b>	3	<b>LLT 1223:</b> <i>World Masterpieces 2</i>	3
<b>MGMT 1010:</b> <i>Principles of Management</i>	3	<b>SSC 2423:</b> <i>Dev of the American Experience</i>	3
<b>Note: Total MACRAO &amp; Bridge Credits =</b>	<b>33</b>	<b>MGT 2203:</b> <i>Management &amp; Supervision</i>	3
		<small>**Please refer to MACRAO guidelines or transfer guide sheet to find transferable courses for Humanities and Social Science courses. MACRAO Lab Science requirement is met by a course above.</small>	



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<b>Completion of the BSET Degree at LTU</b>	<b>HRS</b>
<b>Technology Core</b>	<b>23</b>
HRM 4013: <i>Employee Management Relations</i>	<b>3</b>
OPM 3113: <i>Operations Management</i>	<b>3</b>
TIE 2063: <i>Manufacturing Processes</i>	<b>3</b>
TIE 2163: <i>Engineering Economics</i>	<b>3</b>
TIE 4115: <i>Senior Project</i>	<b>5</b>
TME 4103: <i>Engineering Materials 2</i>	<b>3</b>
TME 2053: <i>Dynamics</i>	<b>3</b>
or	
TME 3113: <i>Operations Management</i>	<b>3</b>
<b>Remaining Arts &amp; Sciences Courses</b>	<b>9</b>
MCS 1023: <i>Technical Computer Applications</i>	<b>3</b>
MCS 2323: <i>Applied Differential Equations</i>	<b>3</b>
LLT / SSC / PSY: <i>JR / SR Elective</i>	<b>3</b>
<b>Notes:</b> COM 3000: <i>Writing Proficiency Exam must be taken during first semester at LTU.</i> COM 1001: <i>University Seminar (Articulation Participants are Excused)</i>	
<b>Credits Completed at Macomb:</b>	<b>92-93</b>
<b>Credits Transferred to LTU:</b>	<b>93</b>
<b>Minimum Credits at LTU:</b>	<b>32</b>
<b>Minimum Credits to Graduate:</b>	<b>125</b>