



ARTICULATION GUIDE
Lansing Community College- Approved Coursework
LTU – Bachelor of Science in Mechanical Engineering
 Based on LCC 2007-08 Catalog and LTU 2005-07 Catalog

Lansing Community College Courses:

Transfer to LTU as:

Additional Coursework	(57 credits)
CHEM 151 + 161 General Chemistry 1 + Lab.....5 PHYS 251 Physics 1: Mechanics.....5 PHYS 252 Physics 2: Electromag, Waves and Optics.....5 MATH 151 Calculus 1.....4 MATH 152 Calculus 2.....4 MATH 253 Calculus 3.....4 MATH 254 Differential Equations.....3 WRIT 121 Composition 1 4 WRIT 122 Composition 2..... 4 Select Two Humanities Courses from the following:.....8 ENGL 122, 201, 202, 203, 205, 211, 212, 220, 255, 256, 260, 265, 266, 267, 270, 290, HUMS 120, 160, 211, 212, MUSC 240, 241 PHIL 151, 152, 211, THEA 210 RELG 241, 242 WRIT 260 Select Two Social Science Courses from the following:.....8 ANTH 270, 275, 276 HIST 150, 210, 211, 212, 214, 220, 230, 240, 250, 260, GEOG 121, 200, 202, 203 HUMS 213, 214, PHIL 152, 212 POLS 120, 121, 205, 240, 250, 260, 270 SOCL 120, 180, 185, 254, 255, 260 PSYC 200, 202, 203, 205, 209, 210, 221, 222, 250 RELG 211, 212, 250 ECON 201 or 202.....4	CHM 1213 + 1221 University Chemistry 1 + Lab.....4 PHY 2413 + 2421 University Physics 1 + Lab.....4 PHY 2423 + 2431 University Physics 2 + Lab4 MCS 1414 Calculus 1.....4 MCS 1424 Calculus 2.....4 MCS 2413 Calculus 3.....4 MCS 2423 Differential Equations.....3 COM 1103 English Composition.....3 COM 2103 Tech. & Prof. Communication.....3 LLT 1213 + 1223 World Masterpieces 1 and 2.....6 SSC 2413 + 2423 Found. & Develop./ Amer. Exper.....6 SSC 2303 Basic Economics.....3
Communication Core Course	3-4
<p>*- Prerequisites MATH 121 and 122.</p> <p>**Please refer to MACRAO guidelines or transfer guide sheet to find transferable courses for Humanities and Social Science courses.</p> <p>*** To meet all requirements for the General Associates degree or AA in Liberal Arts; complete one course from LCC Communication Core requirements.</p> <p>NOTE: See an LCC counselor for transfer information</p>	



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Transfer to LTU as:

<p>COM 3000- Writing Proficiency Exam must be taken during first semester at LTU.</p> <p>COM 1001 University Seminar Excused</p>	<p><u>Completion of the BSME Degree at LTU</u></p> <p>Mechanical Engineering Core (68 credits)</p> <p>EGE 1012 Intro to Engineering2 EGE 1023 + 2011 Engineering Materials + Lab.....4 EGE 1102 ECAL.....2 EGE 2013 Statics.....3 EGE 3003 Thermodynamics.....3 EGE 3012 Engineering Cost Analysis.....2 EEE 2123 Circuits & Electronics.....3 EME 2012 Mechanical Engineering Graphics.....2 EME 3011 Intro to Engineering Projects.....1 EME 3013 Mechanics Of Materials.....3 EME 3214 Intro to Mechatronics.....4 EME 4402 Mechanics Lab.....2 EME 3023 Manufacturing Processes.....3 EME 3024 Fluid Mechanics.....4 EME 3033 Engineering Numerical Methods.....3 EME 3034 Kinematics & Dynamic Machines.....3 EME 3043 Dynamics.....3 EME 4003 Design of Machine Elements.....3 EME 4013 Heat Transfer.....3 EME 4412 Thermo Science Lab.....2 EME 4212 + 4222 Engineering Project 1 and 2.....4 ME Tech Electives.....12</p> <p>Remaining Arts & Sciences Courses (6 credits)</p> <p>LLT/SSC/PSY Jr./Sr. Elective.....3 MCS 3403 Probability & Statistics.....3</p> <p>Engineering Entrepreneurship Courses (5 credits)</p>
	<p>Credits Transferred to LTU:.....60-61</p> <p>Minimum Credits at LTU:..... 80</p> <p>**Minimum Credits to Graduate:131**</p>