



ARTICULATION GUIDE
Schoolcraft College – Associate in Engineering

to

Lawrence Technological University - Bachelors of Science in Mechanical Engineering

Schoolcraft College Courses:

Transfer to LTU as:

Degree Requirements	
1. English Writing Requirements	
ENG 101 and 102 English Composition..... 6	COM 1103 English Composition3 COM 2103 Technical & Professional Communications.....3 (If MACRAO is satisfied)
2. Math/Science Requirements	
MATH 150 Calculus 1..... 5	MCS 1414 Calculus 1.....4
MATH 151 Calculus 25	MCS 1424 Calculus 24
MATH 240 Calculus 3 5	MCS 2414 Calculus 34
MATH 252 Diff. Equations..... 5	MCS 2423 Diff. Equations3
PHYS 211.....5	PHYS 2413 & 2421 Univ. Physics 1 + Lab.....4
PHYS 2125	PHYS 2413 & 2421 Univ. Physics 2 + Lab4
CHEM 111..... 4	CHM 1213 & 1221 Univ. Chemistry 1 + Lab.....4
3. Humanities Requirement6	
ART 105, 115, 116, 201, ENG 200, 205, 206,243, 244, 245, 246, 248, 251, 252, 280, HUM 210, MUSIC 105, 155, 164, 165, PHIL 247, 277 or THEA 231, 232	Two Humanities Courses: LLT 1213 World Masterpieces 1.....3 LLT 1223 World Masterpieces 2.....3
4. Social Science Requirement	
ECON 201.....4	Three Social Science Courses SSC 2303 Basic Economics3
Choose 4 - 6 additional credits:.....4 - 6 ANTH 112, 117, 201, 211, 214, GEOG 130, 133, 236, HIST 134, 137, 138, 141, 151, 152, 153, 230, HUM 231, PHIL 243, 247, 277, POL 105, 109, 205, 207, 209, SOC 201, 205, 209, 210, 220, 290, PSYCH 201, 209, 219	SSC 2413 Foundations/ American Experience3 SSC 2423 Development/ American Experience3
Additional Engineering Courses	
ENGR 100 Intro to Engineering & Technology.....3	EGE 1012 Intro to Engineering.....2
ENGR 201 Statics.....3	EGE 2013 Statics.....3
ENGR 202 Mechanics of Materials.....3	EME 3013 Mechanics of Materials..... 3
ENGR 203 Dynamics.....4	EME 3043 Dynamics.....3
CAD 103 Engineering Graphics.....3	EME 2012 Mech. Eng. Graphics.....2
MET 114 + MET152 + MET 211 or MET 2159	EGE1023 Eng Materials + EME 20114
COM 1001 (University Seminar Excused)	
Max Credits at Schoolcraft College:.....79 - 81	Credits that transfer to LTU.....67

NOTE: See Schoolcraft Counseling staff for the MACRAO agreement and additional information.

**Schoolcraft College – Approved Coursework
LTU- Bachelor of Science of Mechanical Engineering**

Completion of the BSME Degree at LTU

Mechanical Engineering Core(45 credits)

EME 3011 Intro to Engineering Project.....	1
EME 3023 Manufacturing Processes.....	3
EME 3024 Fluid Mechanics.....	4
EME 3033 Engineering Numerical Methods.....	3
EME 3034 Kinematics & Dynamic Machines.....	4
EME 3214 Intro to Mechatronics.....	4
EME 4003 Design Of Machine Elements.....	3
EME 4013 Heat Transfer.....	3
EME 4412 Thermo Science Lab.....	2
EME 4212 Engineering Project 1.....	2
EME 4222 Engineering Project 2.....	2
EME 4402 Mechanics Lab.....	2
ME Tech Elective Credit.....	12

Additional Engineering Courses (14 credits)

EGE 1102 ECAL.....	1
EGE 2211 Marketing for Engineers.....	1
EGE 3003 Thermodynamics.....	3
EGE 3012 Engineering Cost Analysis.....	2
EGE 3301 Bus. Law for Engineers.....	1
EGE 3311 Strategic Mgt. for Engineers.....	1
EGE 3371 Engineering Design Process.....	1
EEE 2123 Circuits & Electronics.....	3
EEE 3161 Intro to EE Labs.....	1

Minimum Credits @ LTU:.....65

****Minimum Credits to Graduate:131**

Additional Arts & Science Courses (6 credit hours)

MCS 3403 Probability & Statistics.....	3
LLT/SSC/ PSY Jr./Sr. Elective.....	3