



## ARTICULATION AGREEMENT PROGRAM GUIDE

Associate in Applied Science Technological Sciences Oakland Community College		Bachelor of Science Manufacturing and Mechanical Engineering Technology Lawrence Technological University	
<b>Sciences Major Focus</b>			
Select a primary focus of a minimum of 16 credits with the same prefix from any one of the following occupational disciplines: AUT, CAD, CIS, EEC, INT, MCT, MTT, PHO, <u>or</u> ROB	18 CH	Technical Electives	15 CH
		General Elective Credit	3 CH
<b>Required Supportive Courses</b>			
Select a minimum of 14 credits, in any combination of courses from the following list of prefixes. (Courses previously used in Major Focus may not be used to meet this requirement.)	16 CH		
CHE 1510 General Chemistry I	4 CH	CHM 1154 Intro to Chemistry Principles w/lab	
*CIS 2252 Object-Oriented Programming (C++)	4 CH	TME 2003 Computer Aided Analysis	
PHY 1610 College Physics I	4 CH	PHY 2213/2221 College Physics 1 & lab	
PHY 1620 College Physics II	4 CH	PHY 2223/2231 College Physics 2 & lab	
<b>Total credit hours for Program-Related Courses</b>	<b>24 CH</b>		
<b>General Education Requirements</b>			
<b>Communication / English</b>			
ENG 1520 Composition 2	3 CH	COM 1103 College Composition	
<b>**Fine Arts / Humanities</b> (MTA applicable, from a different subject area used in the Additional Required Credits area.)			
	3 CH	LLT 1213 World Masterpieces 1	
<b>Mathematics / Science</b>			
MAT1630 Pre-Calculus	4 CH	MCS 1074 Precalculus	
<b>Social Science</b>			
ECON 2610 Economics I	3 CH	SSC 2303 Principles of Economics	
<b>Written Communication</b>			
*ENG 2200 Professional Communication	4 CH	COM 2103 Technical & Professional Com.	
<b>Additional BSMMET Requirements</b>			
BUS 1310 Supervision <u>or</u> MGT 2530 Management	3 CH	Principles of Management	
MAT 1730 Calculus I	4 CH	MCS 1414 Calculus 1	
<b>**Fine Arts / Humanities</b> (MTA applicable, from a different subject area used in the General Education Requirement.)			
	3 CH	LLT 1223 World Masterpieces 2	

<b>**Social Sciences</b> (MTA applicable, from different subject areas and non-Economics courses.)	6 CH	SSC 2413 Found. of the American Experience SSC 2423 Found. of the American Experience
<b>Total Credit Hours Taken at OCC:</b>	<b>67 CH</b>	
<b>Total OCC Credit Hours Granted by LTU:</b>	<b>65 CH</b>	



**OAKLAND  
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<b>Bachelor of Science Manufacturing and Mechanical Engineering Technology Lawrence Technological University</b>	
<b><u>Remaining LTU Degree Requirements (62 Credit Hours)</u></b>	
<b><u>Required Courses (62 Credit Hours)</u></b>	
COM 3000 Writing Prof Exam	0 CH
EGE 3022 Leadership & Professional Development for Engineers	2 CH
HUM XXX3 LLT/SSC/PSY (3000 <u>or</u> 400 level)	3 CH
HRM 3023 Human Resource Management	3 CH
MCS 3324 Applied Calculus & Differential Equations	4 CH
MGT 3113 Operations Management	3 CH
TEE 3103 DC/AC Circuits	3 CH
TEE 4214 Embedded Processors	4 CH
TEE 4224 Transducers & Instruction	4 CH
TIE 3063 Manufacturing Engineering Processes	3 CH
TIE 3163 Engineering Economic Analysis	3 CH
TIE 3203 Technical Project Management	3 CH
TIE 4115 Senior Project	5 CH
TME 3113 Engineering Mechanics	3 CH
TME 3204 Applied Thermo-Fluids	4 CH
TME 3333 Six Sigma 1	3 CH
TME 4103 Engineering Materials	3 CH
TME 4113 Computer Design Graphics	3 CH
TME 4343 Six Sigma 2	3 CH
TME 4413 Lean Manufacturing	3 CH
<b>Total Credit Hours Taken at LTU:</b>	<b>62 CH</b>
<b>Total Credit Hours Required for Degree:</b>	<b>127 CH</b>

**Notes:**

- Students must have an overall GPA of a 2.0 in order to be eligible for admission consideration to Lawrence Technological University (LTU).
- Students should meet with an OCC Counselor prior to following this Articulation Agreement Program Guide.
- Deviation from this guide may result in non-transferable and/or applicable OCC coursework, resulting in additional requirements.
- This guide does not include any remedial courses and may not include prerequisite requirements.
- This Articulation Agreement Program Guide includes the remaining Michigan Transfer Agreement (MTA) and additional LTU degree/program requirements beyond the A.A.S. degree requirements.
- Lawrence Technical University requires that a minimum of a "C" (2.0) be earned in each course in order to be considered for transfer credit, non-germane and remedial courses may not qualify for transfer credit.
- The Michigan Transfer Agreement (MTA) requires a minimum of a "C" (2.0) grade be earned in each applicable course in order to fulfill the category requirement and to receive the MTA endorsement. If a student completes the MTA at Oakland Community College, then MTA approved courses will take precedence over General Education courses listed on the Articulation Agreement. If a student chooses not to complete the MTA at Oakland Community College, then the student must complete courses as listed in the General Education section in Articulation Agreement.
- \*Only three (3) of the four (4) credit hours for CIS 2252 and ENG 2200 will be granted upon transfer to LTU.
- \*\*Michigan Transfer Agreement (MTA) applicable courses are listed in the OCC Catalog. The Fine Arts/Humanities, Social Sciences and Natural Sciences requirements must be from two different disciplines.

For questions regarding the transferability of coursework not reflected on the guide, please contact Lawrence Technological University's

Assistant Director of Admissions/Transfer Articulation Coordinator, Emily Phelan, at: (248)204-3169, [ephelan@ltu.edu](mailto:ephelan@ltu.edu).  
to schedule an appointment with an advisor please contact Madonna University at (734)432-5339, [admissions@madonna.edu](mailto:admissions@madonna.edu).

July 1<sup>st</sup>, 2020 – June 30<sup>th</sup>, 2024