



ARTICULATION AGREEMENT PROGRAM GUIDE

Exhibit A

Associate in Applied Science Pre-Engineering Oakland Community College (OCC)		Bachelor of Scient Electrical Engine Lawrence Technol	
Major Requirements:	Credit Hours	Equivalent Course:	
CHE 1510 General Chemistry I	4	CHM 1213 CHM 1221	University Chemistry 1 University Chemistry 1 Lab
EGR 2010 Engineering Programming ² ENG1510 Composition I ENG 2200 Professional Communication MAT 1730 Calculus I MAT 2740 Calculus III MAT 2810 Differential Equations PHY 2400 Engineering Physics I PHY 2500 Engineering Physics II	4 3 4 4 4 4 5	COM 1103 COM 2103 MCS 1414 MCS 1424 MCS 2414 MCS 2423 PHY 2413 PHY 2421 PHY 2423 PHY 2431	No Transfer Credit Awarded College Composition Technical & Professional Com. Calculus 1 Calculus 2 Calculus 3 Differential Equations University Physics 1 University Physics 1 Lab University Physics 2 University Physics 2 Lab
Focus Area:		1111 2431	Offiversity Frigsics 2 Lab
Electrical/Computer			
EGR 2060 Engineering Digital Circuits EGR 2080 Engineering Microcontrollers	4	EEE 2214 EEE 3233 EEE 3231	Digital Electronics Lab Microprocessors Microprocessors Lab
EGR 2700 Engineering Circuits I	5	EEE 2114 EEE 2111	Circuits 1 Circuits 1 Lab
Additional General Education Requirem			
¹ MTA Casial Cainna	6	LLT 1213 LLT 1223	World Masterpieces 1 World Masterpieces 2
¹ MTA Social Science	6	SSC 2413 SSC 2423	Found. of the American Exp. Develop. of the American Exp.
Total Credit Hours Required for Associate Degree	66		





the LTU, BS in Elec	that may be taken at OCC and required ctrical Engineering Program: It in additional LTU coursework upon	for		
CIS 2757	C# Programming	4		
<u>or</u>	g g		MCS 1142 Introduction to C	
CIS 2819	Mobile Application Development (iSO)	4	SSC 2303 Principles of Economics	
ECO 2610	Principles of Macroeconomics	3	EGE 1001 Fund. of Engineering Design &	
EGR 1100	Introduction to Engineering	3	+EEE 1001 Intro to ECE	
			MCS 3403 Probability & Statistics	
MAT1580	Statistics	4		
Total additional credit hours that may be taken at OCC: 14		14	Total OCC Credit Hours Applied Towards the LTU B.S. in Electrical Engineering: 68	
Total Credit Hours	s Taken at OCC:	80		





Bachelor of Science Electrical Engineering Lawrence Technological University (LTU)

Remaining Requirements: EEE xxx1 EE Lab 1 EEE xxx3 Concentration #1 3 EEE 3011 Introduction to ECE Projects 1 EEE 3121 Circuits Lab 2 Circuits 2 EEE 3124 4 EEE 3311 Electronics Lab EEE 3314 Electronics 4 EEE 3414 **Electromagnet Fields** 4 3 Signals and Systems EEE 3423 1 EEE 4xx1 EE Lab EEE 4xx3 Concentration #2 3 EEE 4xx3 Concentration #3 3 EEE 4xx3 **EE Technical Elective** 3 3 EEE 4xx3 **EE Technical Elective** 4 EEE 4424 Communication Systems EEE 4514 Control Systems Lab 4 EEE 4812 **ECE Project 1** 2 2 EEE 4822 ECE Project 2 EGE 3012 **Engineering Cost Analysis** 2 Leadership & Professional Development 2 EGE 3022 EGE 3361 **Business Plan** 1 3 EME 4603 Introduction to Mechanical Systems Introduction to Thermal Systems 3 EME 4613 LLT/SSC/PSY 3xx3/4xx3 Elective 3 MCS 3413 **Advanced Engineering Mathematics** 3 Total Credit Hours Taken at LTU: 64 Minimum Credit Hours Required: 132 Total Credit Hours Taken: 144





Notes:

- ¹Arts/Humanities, Social Science must be from two different disciplines. Students who complete MTA may choose from applicable courses listed in the OCC Catalog. Students who do not complete MTA can choose courses from the following:
 - Social Science: ANT 1540, 2510, 2750, GEO 2510, GLS 2510, 2520, 2904, HIS 1510, 1520, 1550, 1651, 1660, 1661, 1662, 1663, 1700, 2510, 2520, 2610, HUM 1710, PHI 1520, 1610, 1710, 2710, POL 1510, 1990, 1991, 1992, 1993, 2520, 2530, 2610, 2990, 2991, 2992, PSY 2510, 2710, 2730, 2810, SOC 2510, 2520, 2530, 2550, 2560, 2570, 2610, 2620
 - Fine Arts/Humanities: ART 2560, 2600, 2620, ENG 1610, 1710, 1720, 2300, 2510, 2520, 2530, 2540, 2550, 2560, 2750, 2760, 2770, 2780, 2800, FSH 1500, HUM 1510, 1520, 2720, 2900
- ²If a student completed ENG 1510 using the MTA then COM 1103 College Composition will be satisfied. If the student does not complete the MTA then ENG 1520 must be completed for transfer credits of COM 1103.
- The remaining degree requirements noted assume students have completed the articulation agreement as outlinedincluding successful completion of the specific recommended OCC electives.
- Deviation from this guide may result in none transferable and/or applicable OCC coursework, resulting in additional requirements.
- Completion of this Transfer Credit Agreement Program Guide does not guarantee admission to the Electrical
 Engineering program at the LTU. Students are encouraged to meet with an OCC Counselor prior to following this
 Transfer Credit Agreement Program Guide and with an LTU representative before enrolling in their final year at OCC to
 maximize admissions, scholarship, and transfer eligibility.
- This guide does not include any remedial courses that may be required at OCC and may not include prerequisite requirements.
- Lawrence Technological 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.
- For the full LTU Transfer Credit Policy, go to https://www.ltu.edu/futurestudents/transfer/.

For questions regarding the transferability of coursework not reflected on the guide, please contact Emily Phelan at Lawrence Technological University, 248-204-3169 or ephelan@edu. For questions regarding the Electrical Engineering program please contact Dr. Nabih Jaber, Chair of Electrical & Computer Engineering, at njaber@ltu.edu.

This Transfer Credit Agreement Program Guide is valid from May 2022 - May 2027.