

**Articulation Agreement Between
Schoolcraft College- Associate in Engineering
And
Lawrence Technological University- Bachelor of Science in Civil Engineering**

Schoolcraft College Associate in Engineering			Lawrence Technological University Bachelor of Science in Civil Engineering		
Associate Degree Program Requirements Required and elective courses		Credit Hours	Bachelor Degree Requirements		Credit Hours
ENG 101	English Composition I	3	COM 1103	English Composition	3
ENG 102	English Composition 2	3	COM 2103	Technical & Professional Communication *Combined with ENG 102, it will transfer for COM 2103.	3
COMA 103	Fundamentals of Speech	3		*Combined with ENG 102, it will transfer for COM 2103.	3
Humanities	Select additional Humanities courses (see ** on next page)	3	LLT 1213	World Masterpieces 1	3
MATH 150	Calculus with Analytic Geometry 1	5	MCS 1414	Calculus 1	4
MATH 151	Calculus with Analytic Geometry 2	5	MCS 1424	Calculus 2	4
MATH 240	Calculus with Analytic Geometry 3	5	MCS 2414	Calculus 3	4
MATH 252	Differential Equations	5	MCS 2423	Differential Equations	3
PHYS 211	Physics for Scientists & Engineers 1	5	PHY 2413 + 2421	University Physics 1 University Physics 1 Lab	3 1
PHYS 212	Physics for Scientists & Engineers 2	5	PHY 2423 + 2431	University Physics 2 University Physics 2 Lab	3 1
CHEM 111	General Chemistry 1	4	CHM 1213 + 1221	University Chemistry 1 University Chemistry 1 Lab	3 1
ECON 201	Principles of Macroeconomics	4	SSC 2303	Basic Economics	3
Social Science	Select additional Social Science courses (see * on next page)	3	SSC 2413	Foundations of the American Experience	3
ENGR 202	Mechanics of Materials	3	EME 3013	Mechanics of Materials	3
ENGR 203	Dynamics	4	EME 3043	Dynamics	3
Total Associate in Engineering Degree Requirements		60			

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Additional Courses		Credit Hours	Bachelor Degree Requirements		Credit Hours
ENGR 201	Statics	3	EGE 2013	Statics	3
ENGR 100	Introduction to Engineering & Technology	3	ECE 1012	Introduction to Civil Engineering	2
GEO 133	Physical Geology	4	GLG 1103	Geology/Physical Science	3
Social Science	*Select 3 Credit Hours from approved, ANTH, HIST, PHIL, POLS, PSYCH, SOC classes	3-4	SSC 2423	Development of the American Experience	3
Humanities	**Select 6 Credit Hours from approved ART, MUSIC, ENG or HUM classes	3-4	LLT 1213	World Masterpieces 2	3
ENVR 204	Introductory Surveying	3	ECE 1013	Surveying and Land Measurement	3
Total Additional Credit Hours		19-21			
Total Associate in Engineering Degree Requirements		60	Credit Hours to be Completed at Lawrence Tech for BSCE Degree:		66
			Civil Engineering Core:		55
			ECE 1101 CE Graphics Lab		1
			ECE 1102 CE Applications Lab		2
			ECE 1413 CE Materials		3
			ECE 3213 Construction Engineering		3
			ECE 3324 Environmental Engineering		4
			ECE 3424 Geotechnical Engineering		4
			ECE 3523 Hydromechanics		3
			ECE 3723 Theory of Structures		3
			ECE 3823 Transportation Engineering		3
			ECE 4021 CE Design Project 1		1
			ECE 4033 CE Design Project 2		3
			ECE 4051 Ethics/ Professional Issues		1
			ECE 4544 Hydraulic Engineering		4
			ECE 4743 Concrete Design		3
			ECE 4761 Structural Testing		1
			CE Technical Elective Credit		15
			Additional Engineering Courses		5
			EGE 3012 Engineering Cost Analysis		2
			EEE 2123 Circuits & Electronics		3
			Additional Arts & Science Courses		6
			MCS 3403 Probability & Statistics		2
			LLT/ SSC Junior/Senior Elective		3
			LDR 2001 Leadership Practices		1
			COM 3000 Written Proficiency Exam must be taken during first semester at LTU.		
			COM 1001 University Seminar Satisfied		
Total Credit Hours at Schoolcraft		79 - 81	Total Credit Hours Accepted		66

*ANTH 112, 117, 201, 211, HIST 134, 137,138, 141, 152, 153, PHIL 243, 247, POLS 105, 109, 205, 207, 209, PSYCH 201, SOC 201, 205, 210

**ART 115,116, 201, MUSIC 105, ENG 205, 206, 243-246, HUM 150, 190, 212, 231, 232

*Please note: Due to the conversion of course credit from Schoolcraft to LTU, approximately 10-14 credit hours are lost in the transfer process.

All transferable *coursework* for the agreement is applicable, but not all *credit* hours.