MINNESOTA STATE COLLEGES AND UNIVERSITIES* TRANSFER AGREEMENT BETWEEN	Lake Land College https://www.lakelandcollege.edu/ AND Minnesota State University, Mankato

*The Board of Trustees of the Minnesota State Colleges and Universities is authorized by Minnesota Statutes, Chapter 136F to enter into Agreements and has delegated this authority to colleges and universities.

This Agreement is entered into between Lake Land College, 5001 Lake Land Blvd., Mattoon, IL 61938 https://www.lakelandcollege.edu/ (hereinafter sending institution), and Minnesota State University, Mankato, 321 Wigley Administration Building, Mankato, MN 56001 (hereinafter receiving institution). This Agreement and any amendments and supplements, shall be interpreted pursuant to the laws of the State of Minnesota.

The sending institution has established an **Associate in Engineering Science** (hereinafter sending program), and the receiving institution has established a degree in Integrated Engineering Bachelor of Science in Engineering (hereinafter receiving program), and will facilitate credit transfer and provide a smooth transition from one related program to another. It is mutually agreed:

Admission and Graduation Requirements

A. The receiving institution's admission and program admission requirements apply to both direct entry students and to students who transfer under this agreement.
B. Students must fulfill the graduation requirements at both institutions.
C. Students must complete the entire sending program and meet the receiving institution's admission requirements for the agreement to apply, including grade requirements for courses and an overall GPA requirement.

Transfer of Credits

A. The receiving institution will accept 66-68 credits from the sending program. A total of 65-67 credits remain to complete the receiving program.
B. Courses will transfer as described in the attached Program Transfer Table. For system institutions, once the courses are encoded, they will transfer as described in the *"Transferology"* audit.

Implementation and Review

A. The Chief Academic Officers or designees of the parties to this agreement will implement the terms of this agreement, including identifying and incorporating any changes into subsequent agreements, assuring compliance with system policy, procedure and guidelines, and conducting a periodic review of this agreement.
B. This Transfer Agreement is effective on 07/01/2019 and shall remain in effect until 06/30/2024 or for five years, whichever occurs first, unless terminated or amended by either party with 90 days prior written notice.
C. The college and university shall work with students to resolve the transfer of courses should changes to either program occur while the agreement is in effect.
D. This Transfer Agreement will be reviewed by both parties beginning 01/01/2024 (within six months of the end date).
E. When a student notifies the receiving institution of their intent to follow this agreement, the receiving institution will encode course waivers and substitutions.

PROGRAM TRANSFER TABLE

Check if the sending program ____ or receiving program ____ is new.

	College (sending)	University (receiving)
Institution	Lake Land College	Minnesota State University, Mankato
Program name	Associate in Engineering Science	Integrated Engineering
Award Type (e.g., AS)	AES	B.S.E
Credit Length	68	128
CIP code (6-digit)	14.0101	14.0101
Describe program admission requirements (if any)		2.5 GPA and minimum of C- in pre-requisite math, science and lower-division engineering courses. Admission to the university and to the program with program application, transcript and references.

Instructions

- List all required courses in both academic programs.
- MnTC goal areas transfer to the receiving institution according to the goal areas designated by the sending institution.
- Do not indicate a goal area for general education courses that are not part of the MnTC.
- For restricted or unrestricted electives, list number of credits.
- Credits applied: the receiving institution course credit amount may be more or less than the sending institution credit amount. Enter the number of credits that the receiving institution will apply toward degree completion.
- Show equivalent university-college courses on the same row to ensure accurate DARS encoding.
- Equiv/Sub/Wav column: If a course is to be encoded as equivalent, enter Equiv. If a course is to be accepted by the university as a "substitution" only for the purposes of this agreement, enter Sub. If a course requirement is waived by the receiving institution, enter Wav. If a course is to be accepted by the university as a MnTC goal area, restricted elective or unrestricted elective, leave the cell blank.

(To add rows, place cursor outside of the end of a row and press enter.)

SECTION A - Minnesota Transfer Curriculum-General Education

College (sending)			University (receiving)			
course prefix, number and name	Goal(s)[1]	Credits	course prefix, number and name	Goal(s)[1]	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Education						
CHM 150 Gen Chem I		4	CHEM 201 Gen. Chemistry	2,3L	4	Sub
ENGL 120 Composition I (3 credits) and ENGL 121 Composition II (3 credits)		6	ENG 101 Composition	1A 1C	4	Sub
ECO 231 Macroeconomics or ECO 232 Microeconomics		3	ECON 201 Prin of Macroeconomics, or ECON 202 Prin of Microeconomics	5 5	3	Sub Sub
MAT 241 Analytic Geometry & Calculus I		5	MATH 121 Calculus I	4	4	Sub
PHY 140 University Physics I		4	PHYS 221 Gen Physics I	2,3L	4	Sub
A variety of courses will fulfill these requirements.		13-15	6-7 credits social science, 6-7 credits arts and humanities, *depth requirement in either social science or arts/humanities, ** social science plus arts and humanities totals at least 13	Various	13	Sub

[1] MnTC goal areas transfer to the receiving MnSCU college/university according to the goal areas designated by the sending college/university

			credits: MnTC goal area 7 (human diversity) should be included if possible			
MnTC/General Education Total	35-37					

Special Notes, if any: Engineering programs at Minnesota State Mankato have a social science / arts and humanities depth requirement. For a full explanation of this requirement, students will receive an information sheet from their faculty advisor. The current list of acceptable courses is attached to this document. Equivalent Lake Land courses to non-listed classes are not acceptable.

SECTION B - Major, Emphasis, Restricted and Unrestricted Electives or Other

(pre-requisite courses, required core courses, required courses in an emphasis, or electives (restricted or general) within the major). Restricted electives (in Major) fulfill a specific requirement within a major. Example A: "Chose two of the following three courses." Example B: A Biology degree may require 40 science credits (20 credits of required courses + 20 credits of listed related courses, such as botany, genetics, sociobiology, etc. which students can select).

Major, Emphasis, Restricted, Unrestricted Electives or Other Courses				
CHM 151 Gen Chem II (4 credits) or PHY 142 University Physics III (4 credits)	4	CHEM 202 Gen Chemistry II, or BIOL 105 Gen Biology I, or PHYS 223 Gen Physics III and PHYS 233 Physics III Lab	4	Sub
MAT 242 Analytic Geometry & Calculus II	4	MATH 122 Calculus II	4	Sub
MAT 243 Analytic Geometry & Calculus III	4	MATH 223 Calculus III	4	Sub
MAT 245 Differential Equations (3 credits) and MAT 255 Linear Algebra (3 credits)	6	MATH 321 Ordinary Differential Equations	4	Sub
PHY 239 Mechanics I	3	ME 212 Statics	3	Sub
PHY 240 Mechanics II	3	ME 214 Dynamics	3	Sub
PHY 141 University Physics II	4	PHYS 222 Gen Physics II and PHYS 232 Physics II Lab	4	Sub
TEC 103 Engineering Graphics or MAT 151 C Programming with Engineering Applications	3	ENGR 110 Intro to Project-Based Engineering or CS 110 Computer Science I or CIS 121 Intro to Programming	3	Sub
		If both TEC 103 and MAT 151 are taken and MAT 151 has a grade of C or higher, 1 credit of ENGR 322 will be waived.		
Restricted elective credits - list courses (if none enter 0)				
Unrestricted elective credits (if none enter 0)		College's unrestricted elective credits accepted in transfer (if none enter 0)		
Major, Emphasis, Unrestricted Electives Total	31	**Total College Credits Applied (sum of sections A and B)**	61 or 63	

SECTION C - Remaining University (receiving) Requirements

course prefix, number and name	Credits
EE 230 Circuit Analysis I (3 cr) and EE 240 Evaluation of Circuits (1 cr) – can be taken from Itasca Community College as ENGR 2106 Circuits I	3+1
ENG 271 Technical Communication, or CMST 102 Public Speaking, or 1 credit of technical communication coursework offered through Mesabi Range College if both Composition I and Composition II have been taken	1 or 3
ENGR 301 Design I	3
ENGR 302 Design II	3
ENGR 311W Professionalism I	3
ENGR 312W Professionalism II	3
ENGR 401 Capstone Design I	3
ENGR 402 Capstone Design II	3
ENGR 411W Professionalism III	3
ENGR 412W Professionalism IV	3
ENGR 492 Seminar (taken 4 times)	4
Core Technical Competencies (ENGR 321-322, 331-336, 341-346, 421-422, 1 credit each)	16
Elective Technical Competencies (ENGR 431-432, 441-442, 450-465, 475-479, 1 credit each, some are repeatable)	16

	University unrestricted elective credits not counted elsewhere (if none enter 0)	
	Total Remaining University Credits[2]	65 or 67
Special Notes, if any:		

SECTION D - Summary of Total Program Credits

College (sending) Credits		**University (receiving) Requirements**	
MnTC/General Education	35-37		
Major, Emphasis, Unrestricted Electives or Other	31		
Total College Credits	66-68	**Total College Credits Applied**	61 or 63
		Remaining credit to be taken at the university (receiving institution)	67 or 65
		Total Program Credits	128
Special Notes, if any:			

[2] At least 40 of the required credits for the baccalaureate degree shall be at the upper-division level. If a lower division course is shown as equivalent to an upper division course, check with the university to determine if it will count toward the 40 required credits of upper division.

General Education Courses at Lake Land College
We recommend that students only take one History class to meet transfer constraints. The following are acceptable for the BSE degree.

Fine Arts & Humanities

3	History & Culture of the Third World	HIS 153
3	Western Civilization to 1660	HIS 250
3	Western Civilization from 1660	HIS 252
3	Myths & Legends	HUM 120
3	Humanities through the Arts	HUM 150
3	Nature in the Humanities	HUM 151
3	Introduction to Literature	LIT 130
3	Introduction to Fiction	LIT 147
3	American Literature Survey I	LIT 250
3	American Literature Survey II	LIT 251
3	Multicultural American Literature	LIT 252
3	Survey of English Literature I	LIT 260
3	Survey of English Literature II	LIT 261
3	Literature of Women	LIT 270
3	Bible as Literature	LIT 274
3	World Religions	PHI 232
3	Introduction to Philosophy	PHI 270
3	Ethics	PHI 280
3	Introduction to Logic	PHI 290
3	Art & Gender	ART 240
3	Understanding Art	ART 250
3	Art History I	ART 260
3	Art History II	ART 261
3	Humanities Through the Arts	HUM 150
3	Introduction to Film Appreciation	HUM 181
3	Music in American History & Culture	MUS 150
3	Understanding Music	MUS 229

Social & Behavioral Sciences

3	General Anthropology	ANT 200
3	Principles of Economics I	ECO 231
3	Principles of Economics II	ECO 232
3	World Geography	GEO 140
3	History of United States I	HIS 155
3	History of United States II	HIS 156
3	American National Government	POS 160
3	State and Local Government	POS 162
3	Introduction to International Relations	POS 264
3	Introduction to Psychology	PSY 271
3	Child Development	PSY 274
3	Psychology of Maturity & Old Age	PSY 275
3	Social Psychology	PSY 277
3	Family Relations	PSY 278
3	Human Development/Life Span	PSY 279
3	Introduction to Sociology	SOC 280
3	Social Problems	SOC 282
3	Racial and Ethnic Groups	SOC 286
3	Sociology of Sexuality & Gender	SOC 288
3	Sociology of Family	SOC 290

May 22, 2019