FORT HAYS STATE UNIVERSITY

GARDEN CITY COMMUNITY COLLEGE

Memorandum of Understanding
Between
FORT HAYS STATE UNIVERSITY
And
Garden City Community College

I. PURPOSE AND PARTIES

The purpose of this Memorandum of Understanding (MOU) is to facilitate the seamless transition of students from Garden City Community College (GCCC) to Fort Hays State University (FHSU).

II. SCOPE OF AGREEMENT

As confirmed by the signature of its authorized representatives below, FHSU agrees to the following:

- FHSU will honor course credit earned under approved articulated programs (see attachments for approved programs) for graduates with a 2.0 cumulative grade point average (GPA);
  - It should be noted that certain degree programs, such as Teacher Education, Social Work, and Nursing, have additional program admission requirements. If these factors are not met, such as GPA being lower than the program's required GPA, students may enroll at FHSU, but will not be admitted into the specific program until additional program requirements are met;
  - It should be noted certain courses [e.g. Intermediate Algebra] may be allowed in the two-year program but are identified as not accepted towards the FHSU degree.
- List all articulated programs with GCCC on the university website under appropriate page(s).

As confirmed by the signature of its authorized representative below, GCCC agrees to the following:

- Provide FHSU all pertinent information and requirements for individual programs that are part of this agreement;
- Promote FHSU coursework and degree programs to students seeking a four-year degree;
- Provide introductions between FHSU representatives and prospective students where appropriate;
- List all articulated programs with FHSU on the college website under appropriate page(s);
- Include FHSU in all transfer fairs and events where the partnership would have relevance.

As confirmed by the signature of its authorized representative below, both FHSU and GCCC agree to the following:

- This agreement supersedes and replaces any and all previous transfer and/or articulation agreements for the listed programs between the parties.

- Review the articulated programs to ensure consistency on a regular basis;
- Allow fair use of logos and trademarked material upon prior approval.

III. DURATION OF AGREEMENT

This MOU is effective upon signing. It shall automatically renew annually upon the same terms on July 1. Either party may terminate this MOU with written notice to the other party sixty (60) days or more prior to the renewal date. If the MOU is terminated, students currently enrolled at FHSU in the GCCC-FHSU articulated program at the time of termination will be permitted to complete their degree(s) under the conditions of this agreement.

IV. CONCLUSIONS AND SIGNATURES

It is the intent of FHSU and GCCC that this MOU is in full force and effective as of the signature date(s) below. This MOU may be amended at any time upon the joint execution of a written amendment document by both parties.

IN WITNESS WHEREOF, the principals hereto have caused this MOU to be signed by their duly authorized principals.

On behalf of Fort Hays State University:		On behalf of Garden City Community College	
Wesley D. Wintch	05/28/2024	Marc Malone	5/31/24
Wesley D. Wintch Vice President for Administration and Finance	Date	Marc Malone, Vice-President for Instructional Services	Date

Programs Attached:
GCCC AS in Robotics > BS in Technology Studies (Manufacturing Technology)
GCCC AAS > BS in Technology Leadership
GCCC Cert a in Construction Trades > BS in Technology Studies (Construction Management)

Approved as to Form
5-28-24 JBB

Fort Hays State University	
Garden City CC-AS Robotics & Mechatronics	
Bachelor of Technology Studies-Manufacturing Technology	
Course # & Title	Credits
Course Work from Garden City CC	
AS Degrees from Kansas Public Institutions (Garden City CC)	34
GCCC Robotic program credits for FHSU MT program... GCCC	9
GCCC Robotics program credits for FHSU TECS Elective...GCCC	6
GCCC Robotics program credits for FHSU FREE Elective...GCCC	3
FHSU ATMAE Accreditation Requirement-Second Math (3) from GCCC	3
FHSU ATMAE Accreditation Requirement-Second PHY Sci (3+2 Elec) GCCC	5
Total	**60**
Lower Division Technology Program Classes from FHSU	
TECS 119, 180, 200, 240, 260, and 280	**18**
Upper Division Courses for the Manufacturing Technology	
TECS 312 – Graphics Communication	3
TECS 318 – Intro. to Computer Aided Drafting	3
TECS 480 – Industrial Management	3
TECS 490 Occupational Safety, Health & Liability	2
TECS 495 Training & Instructional Systems ***OR*** TECS 460 Teaching Technology Education	3
TECS 331 – Machine Tool Operations	3
TECS 420 – Fluid Systems: Hydraulics/Pneumatics	2
TECS 430 – Computer-Aided Manufacturing	3
TECS 440 – Maintenance & Repair of Equipment	1
TECS 499 Internship 9 hours (OR TECS 406/606 Intern)	9
MGT 101 – Intro to Business (3) ***Substitute*** *upper division FHSU business class to aid in the 45 hours.*	3
MGT 301 – Management Principles	3
TECS 391 – Technology in Society	3
1-4 hours of Upper Division TECS Elective to meet 45 minimum	1-4
Total Upper Division	**45**
BS Degree Total	**120**

Spring 2024

Fort Hays State University

Garden City CC Robotics

FORT HAYS STATE UNIVERSITY
DEPARTMENT OF APPLIED TECHNOLOGY
Forward thinking. World ready.

Bachelor of Technology Studies (Manufacturing Technology)

(On-campus)

Course # & Title	credits	FHSU	transfer	CPL	Draft	upper-div	4-year	residency	120 passed
TECS CORE (32 credits)									
TECS 120 – Power, Energy, and Transportation	3		4		ROBT-100 BASIC ELECTRONICS (*1cr to elective)				4
TECS 130 – STEM in Technology Systems	3		3		ROBT-110 Design Thinking in STEM				3
TECS 200 – Engineering Graphics	3	3					3	3	3
TECS 312 – Graphic Communication Techniques	3	3				3	3	3	3
TECS 318 – Intro. to Computer Aided Drafting	3	3				3	3	3	3
TECS 480 – Industrial Management	3	3				3	3	3	3
TECS 490 Occupational Safety, Health & Liability	2	2				2	2	2	2
TECS 495 Training & Instructional Systems ***OR*** TECS 460 Teaching Technology Education	3	3				3	3	3	3
TECS 499 Internship 9 hours (OR TECS 406/606 Intern)	9	9				9	9	9	9
TECS Management Requirements (6 credits)									
MGT 101 Intro to Business	3	3			Enroll in MGT 410 or MGT 411 for **Upper Div**	3	3	3	3
MGT 301 Management Principles	3	3				3	3	3	3
Construction Technology Content Area (27 credits)									
TECS 119 – Intro to Welding	3	3					3	3	3
TECS 180 – Materials, Processes, and Production	3	3					3	3	3
TECS 240 – Plastic Processes	3	3					3	3	3
TECS 260 – Metal Processes	3	3					3	3	3
TECS 280 – Wood Processes	3	3					3	3	3
TECS 331 – Machine Tool Operations	3	3				3	3	3	3
TECS 375 – Robotics: Engineering Problem Solving	3		3		ROBT-130 AUTOMATED SYSTEMS & ROBOTICS				3
TECS 420 – Fluid systems: Hydraulic/Pneumatics	2	2				2	2	2	2
TECS 430 – Computer-Aided Manufacturing	3	3				3	3	3	3
TECS 440 – Maintenance and Repair of Equipment	1	1				1	1	1	1
ATMAE TECS General Education									
GSCI 240 or PHYS 102 or GSCI 100	3		5		General Physics 1				5
MATH 250 STATS	3		3		MATH Fundamentals of Statistic				3
Recommended TECS electives (9 credits)									
TECS Elective	3	3			TECS 391 Technology In Society (TECS 391 for ATMAE)	3	3	3	3
TECS Elective	3	3			TECS 406 or 606	3	3	3	3
TECS Elective	3	1			TECS 406 or 606	1	1	1	1
					Note the extra credit from Physics and Geology (2)				
Free Electives									
Elective	3		3		CSCI 102 Introduction to programming				3
Elective	2		3		Program Elective From GCCC				1
					(*1 cr from Above Robotics)				
ENGLISH DISCIPLINE AREA (6 credits)									
ENG 101 English Composition I	3		3		ENGL-101 ENGLISH I				3
ENG 102 English Composition II	3		3		ENGL-102 ENGLISH 2				3
ENGLISH DISCIPLINE AREA (3 credits)									
COMM 100 Fundamentals of Oral Comm or COMM 304 Intermediate Interpersonal Communication	3		3		Communication Requirement				3
MATHEMATICS & STATISTICS DISCIPLINE AREA (3 credits)									
MATH 101 Contemporary Mathematics ***OR*** MATH 105 College Algebra w/ Review ***OR*** MATH 110 College Algebra ***OR*** Math 122 Trig ***OR*** MATH 130 Pre-Calc ***OR*** MATH 234 Analytic Geometry & Calculus I ***OR*** MATH 250 Elements of Statistics ***OR*** MATH 331 Calculus Methods	3		3		MATH & STATISTICS REQUIREMENT				3
ARTS AND HUMANITIES DISCIPLINE AREA (6 credits)									
	3		3		ARTS & HUMANITIES REQUIREMENT				3
	3		3		ARTS & HUMANITIES REQUIREMENT				3
Students must complete two courses from this area. The courses must be in different subject areas. Additionally, students are strongly encouraged to select one of their courses from the Engaged Global Citizens group—indicated by the note (EGC)—either from this area or the Social & Behavioral Sciences area on the front of this page.									
SOCIAL & BEHAVIORAL SCIENCES DISCIPLINE AREA (6 credits)									
	3		3		SOCIAL & BEHAVIORAL SCIENCE REQUIREMENT				3
	3		3		SOCIAL & BEHAVIORAL SCIENCE REQUIREMENT				3
Students must complete two courses in this area. The courses must be in different subject areas. Additionally, students are strongly encouraged to select one of their courses from the Engaged Global Citizens group—indicated by the note (EGC)—either from this area or the Arts & Humanities area on the back of this page.									
NATURAL & PHYSICAL SCIENCES DISCIPLINE AREA (4 credits) TECS ATMAE needs 7 credits SEE ELECTIVE									
	3		5		Physical Geology with Lab				5
	1								
Students must complete EITHER [1. One Lecture course (3 credit hours) and one Lab course (1 credit hour)] OR [2. One combination Lecture and Lab.									
INSTITUTIONALLY DESIGNATED AREA (6 credits)									
Institutionally Designated Area ONE…	3		3		Kansas Board of Regents systemwide				3
Institutionally Designated Area TWO	3		3		Kansas Board of Regents systemwide				3
Area ONE: FIN 205, GSCI 240, HHP200, INF101, MIL 302 or other subjects FHSU determines to be appropriate. Area TWO: PHIL 100									
Other Classes									
Freshman Seminar	1		1		Student Success				
Upper Division of Electives									
	120	63	60	0		45	63	63	120

Bachelor of Technology Studies (Construction Technology)

120 Program of Study credits 120
45 Upper-division credits (45 hours min)
63 4-year credits
63 Residency (30 hours)
120 Hours PASSED

Degree: Bachelor of Science in Technology Studies
Major: Technology Studies
Concentration: ***Manufacturing Technology***
Four Year Academic Plan - Associate of Science-Garden City CC-Robotics & Mechatronics

Semester-by-semester Schedule for Ideal, Full-time Student

Fall, Freshman Year

Course Prefix and Number	Course Set (on the degree sheet)	Course Name	Credit Hours	
ENGL-101		English I	3	
ROBT-100		Basic Electronics	4	
CSCI 190		Computer Ethics	3	
ECON 111		Macroeconomics	3	
CSCI -102		Introduction to programming	3	Note
PCDE-101		College Success	1	
TOTAL CREDIT HOURS			17	

Spring, Freshman Year

Course Prefix and Number	Course Set (on the degree sheet)	Course Name	Credit Hours
ENGL-102		English 2	3
PHYS 205		General Physics 1	5
Math -108		College Algebra (or Higher)	3
ROBT-130		Automated Systems and Robotics	3
TOTAL CREDIT HOURS			14

Fall, Sophomore Year

Course Prefix and Number	Course Set (on the degree sheet)	Course Name	Credit Hours
COMM-101		Public Speaking	3
COMM-120		Intro to mass communication	3
SOCI-220		Diversity on Society	3
ROBT-110		Design Thinking in STEM	3
MATH-110		Fundamentals of Statistic	3
TOTAL CREDIT HOURS			15

Spring, Sophomore Year

Course Prefix and Number	Course Set (on the degree sheet)	Course Name	Credit Hours	
POLS 104		Intro to Political Science	3	
PHSC-205		Physical Geology with Lab	5	
PHIL-101		Elementary Ethics	3	
BSAD 220		Bussiness Ethics	3	
TOTAL CREDIT HOURS			14	
Credit Fillers	AS Degrees from Kansas Public Institutions (Garden City CC)		GCCC Total=60	

Fall, Junior Year

Course Prefix and Number	Course Set (on the degree sheet)	Course Name	Credit Hours
TECS 119		Intro to Welding	3
TECS 180		Materials, Processes, and Production	3
TECS 312		Graphic Communication Techniques	3
TECS 318		Intro to Computer Aided Drafting	3
TECS 391		Technology in Society	3
TOTAL CREDIT HOURS			15

Spring, Junior Year

Course Prefix and Number	Course Set (on the degree sheet)	Course Name	Credit Hours
TECS 240		Plastic Processes	3
TECS 280		Wood Processes	3
TECS 480		Industrial Management	3
TECS 490		Occupational Safety, Health, and Liability	2
TECS 420		Fluid Systems: Hydraulics/Pneumatics	2
TECS 440		Maintenance & Repair of Equipment	1
TOTAL CREDIT HOURS			14

Summer, Junior Year

Course Prefix and Number	Course Set (on the degree sheet)	Course Name	Credit Hours
TECS 499		Internship	6

Fall, Senior Year

Course Prefix and Number	Course Set (on the degree sheet)	Course Name	Credit Hours
MGT 301		Management Principles	3
TECS 260		Metal Processes	3
TECS 200		Engineering Graphics	3
TECS 495		Training and Instructional Systems Or TECS 460	3
TOTAL CREDIT HOURS			12

Spring, Senior Year

Course Prefix and Number	Course Set (on the degree sheet)	Course Name	Credit Hours
TECS 331		Machine Tool Operations	3
TECS 430		Computer Aided Manufacturing	3
MGT 410 or MGT 411	Sub for MGT 101	Organizational Behavior/Development or Applied MGT Skills	3
TECS 606		Internship or upper division TECS sub for 3 credits of internship	3
TECS 406		Upper Division Elective (1-4 credits)	1
TOTAL CREDIT HOURS			13
Please note that the semester-by-semester schedule is conceptual. Transfer credit not in alignment or course substitutions not indicated on the program of study may affect the total number of hours required. To earn a BS degree, students must complete the program of study, accumulate a minimum of 120 total credits, including 45 credits of upper-level courses, and fulfill a residency requirement of 30 hours. The Department of Applied Technology will work to accurately document transfer credits for the Applied Technology program of study.				
		TOTAL CREDITS FOR BS DEGREE	120	

Garden City Community College-Associate Degree

Department: **Department of Applied Technology**
Degree: **Bachelor of Science in Technology Leadership 533-0840**
Concentration: **Business & Industry Concentration (Option I)** and **Career & Technical Education Concentration (Option II)**

Associate of Applied Science Degree from Garden City Community College (Tech Credits)	**40 Credits**
General Education: Kansas Board of Regents Systemwide General Education Framework (GCCC or FHSU)	**34**
BSTL Option I or Option II Concentration	**29**
Applied Technology Elective Classes (Certificate Courses)	**12**
Free Electives (upper-division credits for the 45 hours min)	**5**
BSTL Total	**120 Credits**

Business & Industry Concentration (Option I) ***29 credits***

COMM	606	Conflict Management through Comm. (OR BCOM 301 Business Comm.)	3
LDRS	300	Intro to Leadership Concepts	3
LDRS	302	Intro to Leadership Behavior	3
LDRS	310	Fieldwork in Leadership Studies	3
MGT	301	Management Principles	3
MGT	411	Applied Management Skills	3
TECS	391	Technology In Society	3
TECS	495	Training & Instructional Systems (or MGT 614 Training & Development)	3
TECS	480	Industrial Management (OR MGT 602 Production & Operations Management)	3
TECS	490	Occupational Safety, Health, and Liability	2
		Total	29 credits

Elective-Applied Technology TECS Content Specific (Certificate) Courses at FHSU	12 credits
Free Elective (possible upper-division credits for the 45 hours min)	5 credits

Career & Technical Education Concentration (Option II) ***29 credits***

BUED	613	Organization & Administration of Career and Technical Education Program	3
LDRS	300	Intro to Leadership Concepts	3
LDRS	302	Into to Leadership Behavior	3
LDRS	310	Fieldwork in Leadership Studies	3
TECS	301	Introduction to Instructional Technology	3
TECS	391	Technology In Society	3
TECS	460	Teaching Technology Education	3
TECS	490	Occupational Safety, Health, and Liability	2
TEEL	340	The Effective Classroom (OR TEEL 350 Curriculum & Assessment)	3
TESP	302	Educating Exceptional Students	3
		Total	29 Credits

Elective-Applied Technology TECS Content Specific Area of Study Courses at FHSU	12 credits
Free Elective (possible upper-division credits for the 45 hours min)	5 credits

All transferred courses are subject to approval of the Registrar's Office. Students must complete the combination of:

- 45 hours of upper division courses 300 or higher.
- 34 hours of approved General Education.
- 41 hours of approved coursework in the major.
- 30 hours of coursework taken from Fort Hays State University.
- 120 total hours of coursework.

Garden City Community College-Certificate Carpentry
Department: **Department of Applied Technology**
Degree: **Bachelor of Science in Technology Studies 533-0839C**
Concentration: **Construction Management**

TECS Core Requirements – 32 credit hours
TECS 120 – Power, Energy, and Transportation (3)
TECS 130 – STEM in Technology Systems (3)
TECS 200 – Engineering Graphics (3)
TECS 312 – Graphic Communication Techniques (3)
TECS 318 – Introduction to Computer Aided Drafting (3)
TECS 480 – Industrial Management (3)
TECS 490 – Occupational Safety, Health, and Liability (2)
TECS 495 – Training & Instructional Systems (3) *Add OR* TECS 460 Teaching Technology Education (495 OR 460)
TECS 499 – Internship (9) *Add OR TECS 406 Internship (3) OR TECS 606 Internship (3) (406/606 can be taken multiple times to earn the 9 credits of internship hours.)*

TECS Construction Management Concentration (Content Area) – 24 credit hours
TECS 180 – Materials, Processes, and Production (3) GCCC-Introductory Craft Skills CNTR-110 (3)
TECS 380 – Construction Material & Testing (3)
TECS 382 – Construction Estimating & Scheduling (3)
TECS 385 – Construction Planning and Design (3)
TECS 415 – Construction Graphics (3)
TECS 475 – Mechanical and Electrical Systems (3)
TECS 484 – Site Preparation & Foundation (3)
TECS 485 – Building Construction (3) GCCC-Construction Basics CNTR-120 (4)

TECS Elective – 9 credit hours GCCC-Carpentry I CNTR-130 (4), GCCC-Carpentry II CNTR-140 (3), GCCC-Safety and Orientation CNTR-100 (1)
FREE Elective – 5 credit hours GCCC-Windows, Doors, and Stairs CNTR-150 (3), GCCC- Concrete CNTR-160 (3)
(TECS and Free elective equal 14 cr)
TECS Management Requirements – 9 credit hours
GBUS 204 – Business Law (3)
MGT 301 – Management Principles (3)
MGT 411 – Applied Management Skills (3)

***TECS* General Education Requirement for Association of Technology, Management, and Applied Engineering (ATMAE) Accreditation** – 16 credit hours (Credits should be taken as part of the General Education course work.)
MATH 101 – Liberal Arts Mathematics (3) ***or*** MATH 110 – College Algebra (3)
MATH 250 – Elements of Statistics (3) ***or*** MATH 234 Analytic Geometry & Calculus I (3)
GSCI 100 – Introduction to Geology (3)
PHYS 102 – Physical Science (3)
PHYS 103 – Physical Science Laboratory (1) ***or*** GSCI 102 – Introduction to Geology Lab (1)
TECS 391 – Technology in Society (3)

General Education Requirements: KBOR 34 hours General Education + TECS additional MATH & Physical Science 6 hours.

Total Hours – 120 Hours

TECS Core	32
Construction Mgt Content	24
TECS Elective	9
FREE Elective	5
TECS Management	9
Additional MATH	3
Additional Physical Science	3
General Education + Seminar	35
	120