Exhibit A

Bachelor's to Master's Pathway

B.Sc. in STEM to the Master of Science Degree in Intelligent Robotic Systems

Program Content Point of Contact:

Kennesaw State University	Georgia Gwinnett College	
Ying Wang	Neelam Khan	
MSc IRS Program Coordinator	Physics and Pre-Engineering Department Chair	
msrobotics@kennesaw.edu	nkhan3@ggc.edu	

Pathway Admission / Eligibility Requirements

- 1. The student may apply in the spring semester of the junior year or after completing 75 hours at the partner institution.
- 2. Undergraduate GPA of 3.25
- 3. The student may begin to take courses at KSU upon completion of 90 hours at the partner institution.
- 4. The student must have completed MAT 221 Calculus I, MAT 321 Calculus II, and PCS 201 Physics with Calculus I prior to taking courses at KSU.
- 5. The student must be in good academic standing as defined by the partner institution.

Pre-requisite Requirements

MAT 221 Calculus I, MAT 321 Calculus II, and PCS 201 Physics with Calculus I must be completed prior to taking courses as part of this pathway.

Transfer Articulation

The following master's level courses taken at KSU have been deemed as appropriate for reverse transfer to complete the undergraduate degree at GGC.

M.S. in Intelligent Robotic Systems B.Sc. in STEM

Kennesaw State University Course	Georgia Gwinnett College
MTRE 6100 Advanced Robot Programming (offered fall and spring)	3 hours of General Elective Hours
Choose two of the following:	6 hours of General Elective Hours
MTRE 6300 Robot Simulation,	
Communications, and ROS (fall)	
MTRE 6740 Soft Robotics (fall)	
MTRE 6750 Ethics in Robotics: The Ethical and	
Social Implications of Robotics (spring)	

Example Plan of Study for B.Sc. in STEM to Master of Science Degree in Intelligent Robotic Systems

In year 3 of B.Sc in STEM at GGC students should apply to the Bachelors to Master's Pathway Program by the application deadline of July 1 or November 1 to begin taking KSU courses in Fall or Spring Semester of their senior year.

Plan of Study – Based on full-time graduate credit hours once admitted to the MS program.

Pathway Program			
Year	KSU	GGC	
Year 3 Summer (Junior)	Apply to Pathway Program by July 1 for Fall	Courses as needed to complete degree	
Year 4 Fall (Senior) 3-6 Credit Hours	MTRE 6100 – Advanced Robotic Programming and/or MTRE 6300 Robot Simulation, Communications, and ROS	Courses as needed to complete degree	
Year 4 Spring (Senior) 3-6 Credit Hours	MTRE 6750 – Ethics in Robotics and/or MTRE 6100 – Advanced Robotic Programming (If not already taken)	Courses as needed to complete degree	
Year 4 Summer 9 Credit Hours Completed	Apply for Graduate Admission to the MS in Intelligent Robotic Systems by July 1 for Fall, November 1 for Spring	Transfer KSU coursework back to GGC to graduate.	
Admission into the MS Program			
Year 5 Fall	 Take 9 Credit Hours from the following: MTRE 6300 – Robot Simulation, Communications, and ROS (If not already taken) MTRE 6740 – Soft Robotics (If not already taken) CS 7267 – Machine Learning CS 7375 – Artificial Intelligence (Elective - Only Take 1 Elective) 		
Year 5 Spring	 Take 6 Credit Hours from the following: CS 7367 – Machine Vision MTRE 6400 - Perception, Navigation, and Path Planning of Mobile Robots MTRE 6720 - Digital Manufacturing and Robotic Automation MTRE 6800 – Master's Project (Elective - Only Take 1 Elective) MTRE 6750 Ethics in Robotics: The Ethical and Social Implications of Robotics (If no already taken) 		
Year 5 Summer	 Take 6 credit hours from the following: MTRE 6200 – Modeling and Control of Robotic Manipulators MTRE 6710 – Manipulation of 3D Point Cloud Data (Elective - Only Take 1 Elective) 		

By signing, the signatory affirms participation by their institution in this MOU and Transfer Articulation Agreement based on the terms and conditions identified above.

—Docusigned by: Lawrence Whitman —D0113751A9DC463...

January 29, 2025

Lawrence Whitman, Ph.D.
Dean, Southern Polytechnic College
of Engineering and Engineering Technology
Kennesaw State University

lwhitma5@kennesaw.edu

Signed by:

Seph Ometepe

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January 28, 2025

Joseph Ametepe, Ph.D.
Interim Dean, School of Science and Technology
Georgia Gwinnett
jametepe@ggc.edu