LA ROCHE UNIVERSITY

Engaging Minds. Embracing the World

La Roche University
Robotics Certificate PROGRAM GUIDE
Department: Computer Science

Student Name_____   ___**First Year Student**   ___**Transfer**
I.D. Number_____   ___**Change of Major**   ___**Readmit**

Unofficial Eval Completed by/date:_____

PURPOSE: The Robotics Certificate program is meticulously crafted to equip students and engineering professionals with a robust and comprehensive understanding of robotics. This program delves into the core principles of robotics, advanced programming techniques, and diverse applications across various industries. Participants will gain hands-on experience with cutting-edge robotic systems, learning to design, build, and program autonomous robots. The curriculum covers essential topics such as sensor integration, control systems, machine learning, and artificial intelligence, ensuring graduates are well-prepared to innovate and excel in the rapidly evolving field of robotics. This certificate is open to all majors. Students not seeking a degree presently at La Roche University are able to pursue this certificate. A high school diploma is required, along with the necessary course prerequisites (18 credits).

REQUIREMENTS: To successfully complete the Robotics Certificate program the following coursework is required:
- Total Credits: 15

                                                                                       Credits   **Transfer Course #/Comments**

CERTIFICATE REQUIREMENTS 15 CREDITS

		Credits	Transfer Course #/Comments
_____ CSCI2025	Systems Programming	3	Prerequisite: CSCI1010, Corequisite: CSCI2025L
_____ CSCI2025L	Systems Programming Lab	1	_____
_____ CSCI2033	Mechatronics	3	Prerequisite: PHYS1032, CSCI1002, CSCI1010, Corequisite: CSCI2033L
_____ CSCI2033L	Mechatronics Lab	1	_____
_____ CSCI4070	Intro to Artificial Intelligence	3	Prerequisites: CSCI1010, MATH1032, MATH1040
_____ CSCI4080	Fundamentals of Robotics	3	Prerequisites: CSCI2025, CSCI2033 Coreq: CSCI4080L
_____ CSCI4080L	Fundamentals of Robotics Lab	1	_____

Total Credits Earned _____
Credits Required   15
Credits Remaining   _____