

Lackawanna College

ROBOTICS & INTEGRATED TECHNOLOGIES

(Available Scranton)

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS

ACADEMIC YEAR 2023-2024

NAME _____

Academic advisors help students coordinate their academic plans while at Lackawanna College; however, students bear the ultimate responsibility for insuring that they meet the requirements for their degree.

Coursework in the Robotics & Integrated Technologies major is sequential and begins in the fall semester. Students must earn a minimum grade of “C” in all ROB courses to continue in the program. Students are eligible to enroll as a Robotics & Integrated Technologies major if they need TWO bridge level course (ENG 102, ENG 103, or MAT 110). This bridge requirements must be scheduled and successfully completed in the student’s first semester. Students may not continue in the program if this requirement is not successfully completed.

Bridge Course Requirements: **ENG 102 Fundamentals of Writing** _____
ENG103 Critical Reading _____
MAT 110 Introduction to Algebra _____

<u>Semester Taken</u>	<u>Grade Earned</u>	<u>Fall Semester (15 Credits)</u>	<u>Semester Taken</u>	<u>Grade Earned</u>	<u>Spring Semester (17 Credits)</u>
_____	_____	ROB 105 Electrical Safety (1 cr.)	_____	_____	ROB 125 Rob/Elec Troubleshooting (4 cr.)
_____	_____	ROB 110 Robotic Programming I	_____	_____	ROB 135 Elect Motor Controls (4 cr.)
_____	_____	ROB 120 AC/DC Circuit Fundamentals (4 cr.)	_____	_____	ROB 230 Robotic Simulations I
_____	_____	MAT 120 College Algebra	_____	_____	COM 125 Effective Speaking
_____	_____	TEC 105 Information Technology Mgmt	_____	_____	ENG 115 Business Communications*
_____	_____	COL 101 Freshman Experience (1 cr.)	_____	_____	ESW 101 Employ Skills Workshop* (0 cr.)

*Must be completed prior to enrollment in ROB 235

<u>Semester Taken</u>	<u>Grade Earned</u>	<u>Summer Semester (3 Credits) - SUMMER</u>
_____	_____	ROB 235 Robotics Program Internship

<u>Semester Taken</u>	<u>Grade Earned</u>	<u>Fall Semester (13 Credits)</u>	<u>Semester Taken</u>	<u>Grade Earned</u>	<u>Spring Semester (16 Credits)</u>
_____	_____	ROB 240 Basic PLC Programming	_____	_____	ROB 250 Robotic Integration/Automation
_____	_____	ROB 245 Robotic Advanced Programming II (4 cr)	_____	_____	ROB 260 Robotics Final Project SS
_____	_____	Humanities Elective _____	_____	_____	Social Science Elective _____
_____	_____	Science Elective* _____	_____	_____	PHL205 Business Ethics _____
			_____	_____	Diversity/Global Studies Elective _____
			_____	_____	COL 201 Capstone Seminar (1 cr.)

**Developmental Education requirements must be successfully completed before a student may enroll in these courses. Credits earned in developmental courses cannot be applied toward graduation.*

CATEGORICAL ELECTIVE OPTIONS ARE LISTED ON BACK OF CURRICULUM GUIDE 2/23
CATEGORICAL ELECTIVES – ACADEMIC YEAR 2023-2024**

Business Elective: any non-required accounting, business, computer information systems, cyber security, economics, esports, finance, hospitality management, management, marketing, or sport management listing

Business Elective (200 level): any non-required 200 level (or higher) accounting, business, computer information systems, cyber security, economics, esports, finance, hospitality management, management, marketing, or sport management listing

Business Elective (300 level): ACC 305, ACC 310, ACC 315, ACC 320, ACC 325, ACC 330, ACC 335, ACC 405, ACC 410, ACC 420, ACC 425, BUS 305, BUS 310, BUS 315, BUS 320, BUS 325, BUS 335, BUS 410, ESP 305, ESP 405, FIN 325, HCM 305, HCM 405, MGT 305, MGT 310, MGT 320, MGT 330, MGT 340, MGT 350, MGT 410, MGT 450, MKT 310, MKT 320, MKT 325, RFM 305, RFM 310, RFM 320, RFM 410, RFM 435, RFM 460

Concentration Courses: COM 205, COM 208, COM 210, COM 228, COM 310, CTN 225, CTN 230, CTN 245, CTN 250, CTN 255, EDU 215, ENG 315, ENG 325, ENG 335, ENG 340, ENG 345, ENG 350, ENG 355

Core Curriculum Elective: Any non-required humanities, social science, or science

Core Elective (300 level): BUS 305, BUS 310, BUS 410, CJS 330, CJS 410, CJS 425, COM 310, ENG 305, ENG 310, ENG 315, ENG 320, ENG 330, ENG 335, ENG 340, ENG 345, ENG 350, ENG 355, HIS 305, HIS 310, HIS 320, HSV 345, HSV 355, HSV 375, HSV 410, HSV 415, HSV 425, MGT 310, MKT 320, MKT 325, PHL 305, PHL 310, PHL 315, PSY 305, PSY 310, RST 310, SSC 310, SSC 315, SSC 320, SSC 325, SSC 330, SSC 340, SSC 410

Criminal Justice Elective (300 level): CJS 305, CJS 315, CJS 335, CJS 425, HSV 345, HSV 355, HSV 415, HSV 435, SSC 330, SSC 410

Diversity/Global Studies Elective: ACC 235, BUS 410, COM 228, CYB 105, CYB 205, ENG 220, ENG 240, ESC 130, HIS 110, HIS 130, HIS 138, HIS 155, HIS 215, HIS 220, HIS 305, HIS 310, HIS 320, HSV 375, HSV 425, MGT 235, MGT 330, MKT 215, MKT 310, MKT 320, PHL 315, RST 210, RST 310, SPN 101, SSC 225, SSC 235, SSC 260, SSC 310, SSC 340

Diversity/Global Studies Elective (300 level): BUS 410, HIS 305, HIS 310, HIS 320, HSV 375, HSV 425, MGT 330, MKT 310, MKT 320, PHL 315, RST 310, SSC 310, SSC 340

Free Elective: any non-required 3 credit course (DEV courses do not satisfy this requirement)

History Elective: HIS 105, HIS 110, HIS 118, HIS 120, HIS 130, HIS 138, HIS 140, HIS 155, HIS 215, HIS 220, HIS 305, HIS 310, HIS 320

Human Services Elective (300 level): HSV 315, HSV 340, HSV 345, HSV 350, HSV 355, HSV 375, HSV 415, HSV 425, HSV 435, HSV 445, PSY 310, SSC 330, SSC 340, SSC 410

Humanities Elective: Any non-required fine arts (ART), communications (COM/CTN), literature (ENG), history (HIS), language (SPN), religious studies (RST), or philosophy (PHL) listing

Humanities Elective (200 level): Any non-required 200 level fine arts (ART), communications (COM/CTN), literature (ENG), history (HIS), language (SPN), religious studies (RST), or philosophy (PHL) listing

Literature Elective (200 level): ENG 215, ENG 220, ENG 225, ENG 230, ENG 235, ENG 240, ENG 310, ENG 320, ENG 330, ENG 345

Literature Elective (300 level): ENG 310, ENG 320, ENG 330, ENG 345

Philosophy Elective: PHL 105, PHL 115, PHL 120, PHL 125, PHL 140, PHL 145, PHL 205, PHL 210, PHL 225, PHL 305, PHL 310, PHL 315, PHL 410

Science Elective: BIO 105, BIO 110, BIO 115, ESC 105, ESC 115, ESC 130, ESC 135, ESC 140, ESC 155, PHY 105

Science Elective (200 level): BIO 225, BIO 235, BIO 260, BIO 265

Social Science Elective: Any non-required psychology, sociology, criminal justice, education, human services, or history listing, LAW 230

Social Science Elective (200 level): Any non-required 200 level psychology, sociology, criminal justice, education, human services, or history listing, LAW 230

Social Science Elective (300 level): Any non-required 300 level psychology, sociology, criminal justice, human services, or history listing

Workshop Selections: WRT 410, WRT 420, WRT 430

****MANY OF THE COURSES LISTED AS CATEGORICAL ELECTIVES HAVE PREREQUISITES.
PLEASE REVIEW COURSE DESCRIPTIONS FOR PREREQUISITE INFORMATION****

2/2023