



INDUSTRIAL ELECTRONICS

ASSOCIATE IN APPLIED SCIENCE, 76 Hours

Sample Course Schedule*

First Semester

ORI101	Orientation	1
ILT109	Electrical Blueprint Reading	3
ILT160	DC Fundamentals	3
ILT161	AC Fundamentals	3
ILT164	Circuit Fabrication	1
ILT170	Components of Material Handling	3
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Second Semester

MTH100	Intermediate College Algebra	3
ILT162	Solid State Fundamentals	3
ILT163	Digital Fundamentals	3
ILT194	Introduction to Programmable Logic Controllers	3
ILT209	Motor Controls I	3
		<u>15</u>

Third Semester

CIS146	Microcomputer Applications	3
ILT117	Principles of Construction Wiring	3
ILT169	Hydraulics and Pneumatics	3
ILT196	Advanced Programmable Logic Controllers	3
ELECTIVE	Natural Science/Mathematics	3
		<u>15</u>

Fourth Semester

ENG101	English Composition I	3
ILT166	Motors and Transformers I	3
ILT216	Industrial Robotics	3
INT128	Principles of Industrial Environmental Controls	3
ELT213	Industrial Equipment	3
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Fifth Semester

SPH106	Fundamentals of Oral Communication	3
INT112	Industrial Maintenance Safety Procedures	3
ILT269	Intro to Networking	3
ILT238	Network Cable-Fiber Optic	2
ELECTIVE	Humanities/Fine Arts	3
ELECTIVE	History, Social & Behavioral Sciences	3
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*This is a sample course sequence. Courses scheduled each semester may vary according to student progress and the need for developmental classes.

Degree Requirements

AREA I: WRITTEN COMPOSITION	3 HOURS
ENG101: English Composition I	3 HOURS
AREA II: HUMANITIES AND FINE ARTS	6 HOURS
SPH106: Fundamentals of Oral Communication	3 HOURS
HUMANITIES/FINE ARTS ELECTIVE: Choose from HUM101: Introduction to Humanities I, IDS102: Ethics or REL100: History of World Religions; ART100: Art Appreciation, MUS101: Music Appreciation or THR120: Theatre Appreciation	3 HOURS
AREA III: NATURAL SCIENCE AND MATHEMATICS	6 HOURS
MATHEMATICS ELECTIVE: Choose from MTH100: Intermediate College Algebra, MTH110: Finite Mathematics, MTH112: Precalculus Algebra, MTH113: Precalculus Trigonometry, MTH 125: Calculus I or higher	3 HOURS
NATURAL SCIENCE AND MATHEMATICS ELECTIVE: Choose from BIO103: Principles of Biology I, BIO104: Principles of Biology II, CHM111: College Chemistry I, CHM112: College Chemistry II, PHS111: Physical Science I, PHS112: Physical Science II, PHY201: General Physics I, PHY202: General Physics II, PHY213: General Physics with Calculus I or PHY214: General Physics with Calculus II; MTH100: Intermediate College Algebra, MTH110: Finite Mathematics, MTH112: Precalculus Algebra, MTH113: Precalculus Trigonometry, MTH 125: Calculus I or higher	3 HOURS
AREA IV: HISTORY, SOCIAL AND BEHAVIORAL SCIENCES	3 HOURS
HISTORY, SOCIAL AND BEHAVIORAL SCIENCES ELECTIVE: Choose from HIS101: Western Civilization I, HIS102: Western Civilization II, HIS201: U.S. History I, or HIS202: U.S. History II; ECO231: Principles of Macroeconomics or ECO232: Principles of Microeconomics; GEO100: World Regional Geography; PSY200: General Psychology or PSY210: Human Growth and Development; SOC200: Introduction to Sociology; POL211: American National Government; SPH116: Introduction to Interpersonal Communications	3 HOURS
AREA V: PRE-PROFESSIONAL, MAJOR AND ELECTIVE COURSES	58 HOURS
ORI101: Orientation	1 HOUR
CIS146: Microcomputer Applications	3 HOURS
ELT213: Industrial Equipment	3 HOURS
ILT109: Electrical Blueprint Reading	3 HOURS
ILT117: Principles of Construction Wiring	3 HOURS
ILT160: DC Fundamentals	3 HOURS
ILT161: AC Fundamentals	3 HOURS
ILT162: Solid State Fundamentals	3 HOURS
ILT163: Digital Fundamentals	3 HOURS
ILT164: Circuit Fabrication	1 HOUR
ILT166: Motors and Transformers I	3 HOURS
ILT169: Hydraulics/Pneumatics	3 HOURS
ILT170: Components of Material Handling	3 HOURS
ILT194: Introduction to Programmable Logic Controllers	3 HOURS
ILT196: Advanced Programmable Logic Controllers	3 HOURS
ILT209: Motor Controls I	3 HOURS
ILT216: Industrial Robotics	3 HOURS
ILT238: Network Cable-Fiber Optic	2 HOURS
ILT269: Introduction to Networking	3 HOURS
INT112: Industrial Maintenance Safety Procedures	3 HOURS
INT128: Principles of Industrial Environmental Controls	3 HOURS