

Associate in Applied Science, Building Construction - Heating & Cooling

Degree Type
A.A.S.

Student Learning Outcomes

Graduates of the Industrial Systems Technology Program (Electrical and Instrumentation Option) will be able to:

- Function as a competent entry-level Carpentry, Electrical, Plumbing, Masonry, HVAC, or General Building Construction Technician by demonstrating knowledge and skills retained from coursework (ADM 150-154)
- Perform all tasks in a safe manner. (ADM 150-154)
- Exhibit a positive work ethic. (ADM 150-154)

Area I - Written Composition (3 Credits)

Technical English or English Composition I

Choose from:

Item #	Title	Credits
ENG 100	VOCATIONAL TECHNICAL ENGLISH	3
ENG 101	ENGLISH COMPOSITION	3

Area II - Humanities & Fine Arts (6 Credits)

Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

Area III - Natural Sciences & Mathematics (6 Credits)

CIS Elective

Item #	Title	Credits
	CIS Elective (3 Credits)	3

Mathematics

Choose from:

Item #	Title	Credits
MTH 116	MATHEMATICAL APPLICATIONS	3
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 103	INTRODUCTION TO TECHNICAL MATHEMATICS	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

Area IV - History, Social, & Behavioral Sciences (3 Credits)

Choose from:

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

Area IV - History, Social, & Behavioral Sciences (42 Credits)

Technical Core

Item #	Title	Credits
WKO 106	WORKPLACE SKILLS	3
WKO 110	NCCER CORE	3
	Technical Cooperative Education	3
CMT 208	PROJECT PLANNING AND SCHEDULING	3

Other Courses:

Item #	Title	Credits
ACR 111	PRINCIPLES OF REFRIGERATION	3
ACR 112	HVACR SERVICE PROCEDURES	3
ACR 113	REFRIGERATION PIPING PRACTICES	3
ACR 121	PRINCIPLES OF ELECTRICITY FOR HVACR	3
ACR 122	HVACR ELECTRIC CIRCUITS	3
ACR 123	HVAC/R ELECTRICAL COMPONENTS	3
ACR 210	TROUBLESHOOTING HVACR SYSTEMS	3
	SYSTEM SIZING & DISTRIBUTION ELECTIVE	3
	Advisor Approved Electives (6 Credits)	6
	Total Credits	60