

# Building Automation Systems Technology

## Associate of Applied Science Degree

BAS3

### Curriculum

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<b>General Education Core</b>	<b>15</b>
<b>Area I: Language Arts/Communication</b>	3
ENGL 1101 Composition and Rhetoric (3)	
<b>Area II: Social/Behavioral Sciences</b> <i>(Choose ONE course)</i>	3
ECON 1101 Principles of Economics (3)	
ECON 2105 Principles of Macroeconomics (3)	
ECON 2106 Principles of Microeconomics (3)	
HIST 1111 World History I (3)	
HIST 1112 World History II (3)	
HIST 2111 American History I (3)	
HIST 2112 American History II (3)	
POLS 1101 American Government (3)	
PSYC 1101 Introduction to Psychology (3)	
SOC1 1101 Introduction to Sociology (3)	
<b>Area III: Natural Sciences / Mathematics</b>	3
MATH 1111 College Algebra (3)	
<b>Area IV: Humanities/Fine Arts</b> <i>(Choose ONE course)</i>	3
ARTS 1101 Art Appreciation (3)	
ENGL 2130 American Literature (3)	
HUMN 1101 Introduction to Humanities (3)	
MUSC 1101 Music Appreciation (3)	
RELG 1101 Introduction to World Religions (3)	
<b>Elective: General Education</b> <i>(Choose ONE course)</i>	3
Any course from Area I, II, or IV above	
OR	
ENGL 1102 Literature and Composition (3)	
SPCH 1101 Public Speaking (3)	
BIOL 1111 Biology I (3) + BIOL 1111L Biology I Lab (1)	
BIOL 1112 Biology II (3) + BIOL 1112L Biology II Lab (1)	
CHEM 1211 Chemistry I (3) + CHEM 1211L Chemistry I Lab (1)	
CHEM 1212 Chemistry II (3) + CHEM 1212L Chemistry II Lab (1)	
MATH 1101 Mathematical Modeling (3)	
MATH 1103 Quantitative Skill and Reasoning (3)	
MATH 1113 Precalculus (3)	
MATH 1127 Introduction to Statistics (3)	
MATH 1131 Calculus I (4)	
MATH 1132 Calculus II (4)	
PHYS 1110 Conceptual Physics (3) + PHYS 1110L Conceptual Physics Lab (1)	
PHYS 1111 Introductory Physics I (3) + PHYS 1111L Introductory Physics I Lab (1)	
PHYS 1112 Introductory Physics II (3) + PHYS 1112L Introductory Physics II Lab (1)	

**Occupational Courses****48****Required Courses:**

- AIRC 1005 Refrigeration Fundamentals (4)
- AIRC 1010 Refrigeration Principles and Practices (4)
- AIRC 1020 Refrigeration Systems Components (4)
- BUAS 1010 BAS Fundamentals (2)
- BUAS 1020 BAS Electrical Concepts I (3)
- BUAS 1030 BAS Electrical Concepts II (3)
- BUAS 1040 BAS Devices (3)
- BUAS 1050 BAS Network Architecture (3)
- BUAS 1060 BAS Advanced Electrical Concepts (3)
- BUAS 2010 BAS Commercial HVACR and Controls (3)
- BUAS 2020 BAS Logic and Programming (4)
- BUAS 2030 BAS Design and Installation (4)
- BUAS 2040 BAS Integration (5)
- BUAS 2050 BAS Internship (3)

**Total Credit Hour (minimum):****63**