

# Building Automation Systems

## Degree Program

### BAS3

[Click here to jump to Program Description, Admissions Requirements, and Financial Aid.](#)

## Curriculum

### General Education Core – Total of 15 Hours

#### Area I – Language Arts/Communications – Choose 3 Hours

ENGL 1101 *Composition & Rhetoric* (3)

#### Area II – Social/Behavioral Sciences – Choose 3 Hours

ECON 1101 *Principles of Economics* (3)

ECON 2105 *Macroeconomics* (3)

ECON 2106 *Microeconomics* (3)

HIST 1111 *World History I* (3)

HIST 1112 *World History II* (3)

HIST 2111 *U.S. History I* (3)

HIST 2112 *U.S. History II* (3)

POLS 1101 *American Government* (3)

POLS 2401 *Global Issues* (3)

PSYC 1101 *Introductory Psychology* (3)

SOCI 1101 *Introduction to Sociology* (3)

#### Area III – Natural Sciences/Mathematics – Choose 3 Hours

MATH 1111 *College Algebra* (3)

#### Area IV – Humanities/Fine Arts – Choose 3 Hours

ARTS 1101 *Art Appreciation* (3)

ENGL 2110 *World Literature* (3)

ENGL 2130 *American Literature* (3)

HUMN 1101 *Introduction to Humanities* (3)

MUSC 1101 *Music Appreciation* (3)

#### General Education Core Elective – Choose 3 Hours

### Program-Specific Core – Total of 48 Hours

AIRC 1005 *Refrigeration Fundamentals* (4)

AIRC 1010 *Refrigeration Principles/Practices* (4)

AIRC 1020 *Refrigeration System 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 Comm HVAC/R & Controls* (3)

BUAS 2020 *BAS Logic/Programming* (4)

BUAS 2030 *BAS Design/Installation* (4)

BUAS 2040 *BAS Integration* (5)

BUAS 2050 *BAS Internship* (3)

**Total: 63 Hours**

#### General Education Core Electives

ARTS 1101 *Art Appreciation* (3)

BIOL 1111(L) *Biology I + Lab* (4)

BIOL 2113(L) *Human A&P I + Lab* (4)

BIOL 2114(L) *Human A&P II + Lab* (4)

ECON 1101 *Principles of Economics* (3)

ECON 2105 *Macroeconomics* (3)

ECON 2106 *Microeconomics* (3)

ENGL 1102 *Literature & Comp.* (3)

ENGL 2110 *World Literature* (3)

ENGL 2130 *American Literature* (3)

HIST 1111 *World History I* (3)

HIST 1112 *World History II* (3)

HIST 2111 *US History I* (3)

HIST 2112 *US History II* (3)

HUMN 1101 *Intro to Humanities* (3)

MATH 1101 *Math Modeling* (3)

MATH 1103 *Quant. Skills/Reason* (3)

MATH 1111 *College Algebra* (3)

MATH 1112 *College Trig* (3)

MATH 1113 *Precalculus* (3)

MATH 1127 *Intro to Statistics* (3)

MATH 1131 *Calculus I* (4)

MUSC 1101 *Music Apprec.* (3)

PHYS 1110(L) *Conc. Phys + Lab* (4)

POLS 1101 *American Govt.* (3)

POLS 2401 *Global Issues* (3)

PSYC 1101 *Intro Psychology* (3)

PSYC 2103 *Human Develop.* (3)

SOCI 1101 *Intro to Sociology* (3)

SPAN 1101 *Intro to Spanish* (3)

SPCH 1101 *Public Speaking* (3)

For more information about our graduation rates, the median debt of students who complete programs, and other important information please visit our website:

<http://www.laniertech.edu/GE.aspx>

# Building Automation Systems

## Degree Program

### BAS3

#### Program Description

As a Building Automation Systems Technician, the student will be prepared for a career in the Building Automation (also Energy Management and Controls) Industry. This industry encompasses a broad range of current technologies and disciplines to maintain comfort, control, and energy savings in residential and commercial HVAC systems and facilities. The student will be prepared to install, service, and sell controls equipment including, but not limited to, access controls, fire alarm systems, lighting controls, security systems, and HVAC controls. All commercial buildings now have some form of automation system and current technologies are integrating many of these systems into one. Graduates of this program will have the tools necessary to gain entry into this high-paying and rewarding field.

#### Program Specific Information

Students are accepted every semester based on course and space availability.

#### Program Length & Availability

5 Semesters

Campus Availability: Barrow

#### Admissions Requirements

- Must be 16 years of age.
- High school diploma or GED is required prior to admission.  
*(Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)*
- ACCUPLACER Testing, or submit SAT, ACT, CPE, COMPASS, or ASSET test scores.

#### Financial Aid

This program is eligible for the Pell Grant and may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

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