

Building Automation Systems

Diploma Program

BAS4

Updated: 5/06/2015
Effective Term: 201516

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Curriculum

Basic Skills – Total of 8 Hours

- ENGL 1010 *Fundamentals of English I* (3)
- EMPL 1000 *Interpersonal Relations* (2)
- MATH 1013 *Algebraic Concepts* (3)

Program-Specific Core – Total of 40 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)

Occupational-Related Elective – Choose 3 Hours

Occupational-Related Electives

- AIRC 1060 *AC System App/Installation* (4)
- COMP 1000 *Introduction to Computers* (3)
- IDSY 1110 *Industrial Motor Controls* (5)
- IDSY 1130 *Industrial Wiring* (5)
- IDSY 1190 *Fluid Power/Piping Systems* (5)
- IDSY 1230 *Industrial Instrumentation* (4)

Total: 51 Hours

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>

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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. The student will be prepared to install, service, and sell controls equipment including, but not limited to, access controls, fire alarm systems, lighting controls, and HVAC control systems. 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

4 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 not eligible for the Pell Grant, but may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

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