



**BUILDING AUTOMATION SYSTEMS TECHNICIAN
FOUR SEMESTER ASSOCIATE IN APPLIED SCIENCE DEGREE**

MAJOR CODE: BAS3

REQUIRED CREDIT HOURS: 66

CIP Code:47.0201

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.

Number	Course Name	Credit Hours	Prerequisites/Corequisites
Technical Courses			
AIRC 1005	Refrigeration Fundamentals	4	
AIRC 1010	Refrigeration Principled and Practice	4	Co-req: AIRC1005*
AIRC 1020	Refrigeration System Components	4	Co-req: AIRC1010*
BUAS 1010	BAS Fundamentals	2	Pre-req: AIRC1020
BUAS 1020	BAS Electrical Concepts I	3	Pre-req: AIRC1010 Co-req: BUAS1010*
BUAS 1030	BAS Electrical Concepts II	3	Pre-req: BUAS1020
BUAS 1040	BAS Devices	3	Pre-req: BUAS1020 Co-req: BUAS1030*
BUAS 1050	BAS Network Architecture	3	Pre-req: BUAS1020
BUAS 1060	BAS Advanced Electrical Concepts	3	Pre-req: BUAS1030
BUAS 2010	BAS Commercial HVAC/R and Controls	3	Pre-req: BUAS1030
BUAS 2020	BAS Logic and Programming	3	Pre-req: BUAS1030 Co-req: BUAS2010*
BUAS 2030	BAS Design and Installation	3	Pre-req: BUAS1030 Co-req: BUAS2010*
BUAS 2040	BAS Integration	5	Pre-req: BUAS1050, BUAS1060, BUAS2020
BUAS 2050	BAS Internship	3	Pre-req: BUAS1060, BUAS2020
COMP1000	Introduction to Computer Literacy	3	Pre-req: READ0097 or equivalent test score
General Studies Courses			
ENGL 1101	Composition and Rhetoric	3	Pre-req: Appropriate Degree Level Reading and Writing (English) Placement Test Scores
MATH 1111	College Algebra	3	Pre-req: Appropriate placement test score or appropriate learning support exit point.
Area II - Social / Behavioral Sciences Elective		3	Pre-req: See Catalog for Details
Area IV - Humanities / Fine Arts Elective		3	Pre-req: See Catalog for Details
Area II, III, IV Elective		3	Pre-req: See Catalog for Details

NOTES: Course descriptions are available in the college catalog which can be found online at <https://www.gptc.edu/catalog>.
The curriculum is subject to modification to meet changing conditions.

Estimated Costs

Cost Item	#	Cost
Total Credits (\$89/credit) and Course Fees	66	\$6,049
Semester Fees (\$378/semester)	4	\$1,512
Books and Materials		\$3,175
Total Estimated Cost		\$10,736

NOTES: Credit cost assumes 15 or less credits per semester and both the credit cost and fees can change over time (see <http://www.gptc.edu/index.html> for latest tuition rate and fees).
Books and materials are priced at current rates for new books from the college bookstore.

Gainful Employment Information: No gainful employment information available for this program.

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Georgia Piedmont Technical College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award Associate of Applied Science degrees, diplomas and technical certificates of credit. Contact the [Commission on Colleges](#) at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Georgia Piedmont Technical College.The Commission should be contacted only if there is evidence that appears to support Georgia Piedmont Technical College's significant non-compliance with Commission requirements or standards. Inquiries related to normal and ongoing College operations such as admission requirements, financial aid, programs, etc., should be addressed directly to Georgia Piedmont Technical College and not to the Commission on Colleges.