



**COMMERCIAL REFRIGERATION
SIX SEMESTER ASSOCIATE IN APPLIED SCIENCE DEGREE**

MAJOR CODE: CR13

REQUIRED CREDIT HOURS: 73

CIP Code:47.0201

Program Description: As a Commercial Refrigeration Technician the student will be prepared for a career in the commercial refrigeration industry. This industry is differentiated from the air conditioning industry by both the temperatures maintained, 45 degrees F and lower, and equipment serviced. The commercial refrigeration field encompasses such prevalent equipment as refrigerators, freezers, soft drink machines, water coolers, ice machines, cryo-freezers as found in hospitals and research laboratories, and a range of others. The student will be prepared to install, service, and sell commercial refrigeration equipment. This award will allow graduate to work in sales as well as be trained as an application's Engineer.

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*
AIRC 1030	HVACR Electrical Fundamentals	4	Pre-req: AIRC1020 Co-req: MATH1012*
AIRC 1040	HVACR Electrical Motors	4	Co-req: AIRC1030*, MATH1012*
AIRC 1050	HVACR ELCT Components and	4	Co-req: AIRC1040*, MATH1012*
AIRC 2004	Control Thermodynamics of	2	Co-req: AIRC1050
AIRC 2030	Refrigeration Commercial Refrigeration	8	Co-req: AIRC1030 or AIRC1090
AIRC 2070	Internship Commercial Refrigeration	4	Co-req: AIRC1090, AIRC2004
AIRC 2080	Design Commercial Refrigeration	4	Pre-req: AIRC2070
AIRC 2090	Applications Troubleshoot and Service Commercial Refrigeration	4	Co-req: AIRC2080
ELCR 1010	Direct Current Circuits	6	Pre-req: Program Instructor Approval or Appropriate Placement Test Score Co-req: MATH1013 or MATH1111
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
SPCH 1101	Public Speaking	3	Pre-req: Regular Admission OR ENGL0098
MATH 1111	College Algebra	3	Pre-req: Appropriate placement test score or appropriate learning support exit point.
Select one of the following courses:			
MATH 1113	Precalculus	3	Pre-req: Regular Admission, MATH1111
PHYS 1111	Introductory Physics I	3	Pre-req: ENGL1101, (MATH1112 or MATH1113) Co-req: PHYS1111L
PHYS 1111L	Introductory Physics Lab I	1	Pre-req: ENGL1101, (MATH1112 or MATH1113) Co-req: PHYS1111
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

AIRC Electives: AIRC1060, AIRC1070, AIRC1080, AIRC1090

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	73	\$6,642
Semester Fees (\$378/semester)	6	\$2,268
Books and Materials		\$2,122
Total Estimated Cost		\$11,032

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.

As set forth in its student catalog, Georgia Piedmont Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, veteran status, or citizenship status(except in those special circumstances permitted or mandated by law). Contact Lisa Peters, the ADA Coordinator at 404-297-0522, ext. 1154, ADA504Coordinator@gptc.edu or at the main DeKalb campus, 495 N.Indian Creek Drive, Clarkston, GA 30021, Room A-170; or Dr. Debra Gordon, the Title IX Coordinator, at 404-297-9522, ext. 1176, TitleIXCoordinator@gptc.edu or at the main DeKalb campus, 495 N. Indian Creek Drive, Clarkson, GA 30021 Room A103 for assistance.For more information about our graduation rates and other important program information, please visit our website at <https://www.gptc.edu/gainfulemployment>.

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.