

## Gas and Electric Heating (HART 1445)

### CREDIT

4 Semester Credit Hours (2 hours lecture, 6 hours lab)

### MODE OF INSTRUCTION

Hybrid

### PREREQUISITE/CO-REQUISITE:

None

### COURSE DESCRIPTION

Study of the procedures and principles used in servicing heating systems including gas fired furnaces and electric heating systems

### COURSE OBJECTIVES

Upon completion of this course, the student will be able to

1. Identify different types of gas furnaces
2. Identify and discuss component operation of gas furnaces.
3. Service and troubleshoot gas furnaces.
4. Perform safety inspections on gas and electric heating systems.
5. Identify unsafe operation of gas furnaces.
6. Identify and discuss component operation of electric heating systems.
7. Service and troubleshoot electric heating systems.

Demonstrate electrical safety

### INSTRUCTOR CONTACT INFORMATION

Instructor:	Jared Villejoin
Email:	<a href="mailto:jbvillejoin@lit.edu">jbvillejoin@lit.edu</a>
Office Phone:	409-839-2903
Office Location:	Tommy William Building ITC2 room 102
Office Hours:	5-530PM Tuesdays and Thursdays

### REQUIRED TEXTBOOK AND MATERIALS

**SKILLMILL Online digital learning resource provided by Lamar Institute of Technology.**



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**\*\*ADDITIONAL HAND-OUTS MAYBE GIVEN AND DUE DATE WILL BE ASSIGNED IN CLASS.\*\***

### **COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

- SPECIAL PROJECT 5%
- HOMEWORK/ASSIGNMENTS (KC) 20%
- QUIZZES (FKC) 10%
- EXAMS 25%
- LAB/PROJECTS 40%

### **GRADE SCALE**

**A= 90-100**

**B= 80-89**

**C=70-79**

**D=60-69**

**F= 0-59**

### **TECHNICAL REQUIREMENTS**

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

### **DISABILITIES STATEMENT**

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email [specialpopulations@lit.edu](mailto:specialpopulations@lit.edu). You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

### **STUDENT CODE OF CONDUCT STATEMENT**

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at [www.lit.edu](http://www.lit.edu). Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

### **ARTIFICIAL INTELLIGENCE STATEMENT**

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses

### **STARFISH**

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

### **ADDITIONAL COURSE POLICIES/INFORMATION**

#### **Course Requirements**

1. Homework assignments
2. Hands on lab activities
3. Use of Blackboard and other Web based platforms and resources
4. It is require to complete a safety policy form

#### **Course Policies**

1. No horse playing tolerated, always maintain a safe learning environment.
2. No open foot shoes, sandals, or flip-flops: closed foot shoes *only*.
3. No smoking, eating, or sleeping will be tolerated during class; LIT is a tobacco free campus
4. No rings or other jewelry and lanyards worn exterior that can be a lab hazard.
5. No unauthorized use of cell phones and computers during class.

- 6.** Safety glasses or goggles and gloves are required while working in the lab
- 7.** No make-up for missed exams; but lowest written exam score will be dropped from final grade
- 8.** Due dates are *final*, acceptance of late work will be instructor's discretion
- 9.** Two times tardy will result in an absence; always notify the instructor for excused absences
- 10.** Executed completion of the HVAC Safety Policy and Procedure Form required before working in Lab.