



# STARK STATE COLLEGE

## GENERAL SYLLABUS

### Course Information

**Course Name:** HVAC Principles II  
**Course Number:** HVC122

### Required Materials

**Textbook(s):** AHRI Fundamentals of HVACR 3rd Edition by Stanfield & Skaves  
**Required Readings:** None  
**Additional Materials:** None

### Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

#### 16-Week Course Calendar

Week	Chapter/Topic/Lab
1	Unit 11 Types of Refrigeration Systems Unit 12 The Refrigeration Cycle Quiz
2	Unit 13 Compressors Unit 14 Condensers Quiz
3	Unit 15 Metering Devices Unit 16 Evaporators Quiz
4	Unit 17 Refrigerants and Their Properties Quiz
5	Unit 18 Special Refrigeration Components Unit 19 Plotting the Refrigeration Cycle Exam 1
6	Unit 31 Basic Electricity Quiz
7	Unit 32 Alternating Current Fundamentals Quiz
8	Unit 33, Electrical Measuring and Test Instruments Exam 2

Week	Chapter/Topic/Lab
9	Unit 51 Gas Furnaces Quiz
10	Unit 55 Oil-Fired Heating Systems Quiz
11	Unit 59 Space Heaters Unit 60 Humidifiers Quiz
12	Unit 61 Electric Heat Unit 64 Heat Pump System Fundamentals Exam 3
13	Unit 65 Air-Source Heat Pump Applications Quiz
14	Unit 66 Geothermal Heat Pumps Quiz
15	Exam Review
16	Final Exam

### 8-Week Course Calendar

Week	Chapter/Topic/Lab
1	Unit 11 Types of Refrigeration Systems Unit 12 The Refrigeration Cycle Quiz Unit 13 Compressors Unit 14 Condensers Quiz
2	Unit 15 Metering Devices Unit 16 Evaporators Quiz Unit 17 Refrigerants and Their Properties Quiz
3	Unit 18 Special Refrigeration Components Unit 19 Plotting the Refrigeration Cycle Unit 31 Basic Electricity Exam 1
4	Unit 31 Basic Electricity Unit 32 Alternating Current Fundamentals Quiz
5	Unit 33, Electrical Measuring and Test Instruments Unit 51 Gas Furnaces Exam 2
6	Unit 55 Oil-Fired Heating Systems Unit 59 Space Heaters Unit 60 Humidifiers Quiz
7	Unit 61 Electric Heat Unit 64 Heat Pump System Fundamentals Unit 65 Air-Source Heat Pump Applications Exam 3
8	Exam Review - Final Exam