

Kellogg Community College--Western Michigan University Teacher Education Preparation Program

Program of Work for Industrial Refrigeration/Air Conditioning

The articulated program will allow a student to complete a teacher education program with a major in **Industrial Refrigeration/Air Conditioning** (with **VT endorsement**) and a teachable minor in an appropriate secondary education program). **Note:** The VT endorsement requires 4000 hours of recent and relevant work experience.

University Graduation Requirements include:

- Minimum: 122 credits
- Minimum: 2.0 cumulative GPA
- Minimum: 30 credits from WMU (No credit by exam, self-instructional, or correspondence except General University Studies (GUS) through Extended University Programs)
- Minimum: 10 of the last 30 credits from WMU (No credit by exam, self-instructional, or correspondence except GUS)
- Minimum: One-half total required credits from 4-year institution

- II. Admission to the WMU teacher education program will include these requirements:
 - A. 2.5 or higher Grade point
 - B. Satisfactory completion of the State of Michigan Basic Skills Test (math, reading, communication)
 - C. PSYC 220 (KCC) or Human Growth and Development-ED 250 at WMU satisfactorily completed

- II. Teaching **major** satisfied at KCC (30 credits) - KCC has developed a delivery system for this area that individualizes instruction, is competency based, and features flexible scheduling to meet the needs of students and industry. Thus, there are no course descriptions for the units.

Unit 1	Electrical Safety	.17 credits
Unit 2	Mathematics for Electricians	.58 credits
Unit 3	Electrical Theory	5.19 credits
Unit 5	Electrical Schematic Drawings	1.67 credits
Unit 6	Motor Controls	5.50
credits		
Unit 7	Special Motors and Controls	1.91 credits
Unit 8	Wiring Machine Controls	1.00 credits
Unit 1	Refrigeration Fundamentals	1.50 credits
Unit 2	Servicing Practices	2.83 credits
Unit 3	Refrigeration Systems	2.67 credits
Unit 4	Refrigeration Circuits and Controls	.63 credits
Unit 5	Refrigerants	.42 credits
Unit 6	Hermetic Systems	1.17 credits
Unit 7	Commercial Refrigeration	3.45 credits
Unit 8	Air Conditioning	8.67 credits
Unit 9	Water Chiller Systems	2.15 credits

Teaching **minor** satisfied by taking at least 20 semester hours of WMU courses in an appropriate secondary education minor.