

Kellogg Community College – Western Michigan University Teacher Education Preparation Program

Program of Work for Industrial Electricity/Electronics

The articulated program will allow a student to complete a teacher education program with a major in **Industrial Electricity/Electronics** (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

- I. 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 4	National Electrical Code (NEC)	3.19 credits
Unit 5	Electrical Schematic Drawings	1.67 credits
Unit 6	Motor Controls	7.96 credits
Unit 7	Special Motor Controls	1.91 credits
Unit 8	Wiring Machine Controls	3.12 credits
Unit 9	Facility Maintenance	2.09 credits
Unit 10	Batteries and Charging Devices	.50 credits
Unit 11	Industrial Electronics	6.41 credits
Unit 12	Programmable Controllers	3.01 credits
Unit 13	PLC-5 Systems	4.18 credits

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