

Kellogg Community College – Western Michigan University Teacher Education Preparation Program

Program of Work for Industrial Machine Tool

The articulated program will allow a student to complete a teacher education program with a major in **Industrial Machine Tool** (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	Machine Tool Basics	.17 credits
Unit 2	Machine Tool Safety	.17 credits
Unit 3	Blueprint Reading and Sketching	1.16 credits
Unit 4	Fundamental Skills	1.08 credits
Unit 5	Precision Measurement	3.00 credits
Unit 6	Drill Press and Band Saw	2.51 credits
Unit 7	Turning on Lathe	4.61 credits
Unit 8	Electronic Discharge Machining	.79 credits
Unit 9	Vertical/Horizontal Milling	5.84 credits
Unit 10	Surface Grinding	2.75 credits
Unit 11	Cylindrical Grinding	1.50 credits
Unit 12	Tool and Cutter Grinding	3.00 credits
Unit 13	CNC Programming and Machining	6.25 credits
Unit 14	Machine Tool Projects	5.56 credits

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