

Jackson Community College – Western Michigan University Teacher Education Preparation Program

Program of Work for **Manufacturing Technology – Numerical Control**

The articulated program will allow a student to complete a teacher education program with a major in **Manufacturing Technology- Numerical Control** (with **VT endorsement**) and an appropriate teachable minor **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. PSY 252 (JCC) or Human Growth and Development-ED 250 at WMU satisfactorily completed

II. Teaching **major** satisfied by choosing 30 credits from this list of JCC courses:

CAD 131	Computer Assisted Drafting I (AutoCAD)	3 credits
MTT 105	Machine Tool Technology I	4 credits
MTT 106	Machine Tool Technology II	4 credits
MTT 133	Metallurgy	3 credits
MTT 143	Fundamentals of Drafting	2 credits
NCT 121	Introduction to Numerical Control	2 credits
NCT 122	Programming for Numerical Control	3 credits
NCT 123	Numerical Control Machine Tool Operation	3 credits
NCT 232	Intro to MasterCam – Mill	2 credits
NCT 234	Intro to MasterCam – Lathe	2 credits
QCT 115	Basic Coordinate Measuring Machine Techniques	1 credit
QCT 116	Advanced Coordinate Measuring Machine Techniques	1 credit
QCT 141	Statistical Process Control: X-Bar and R Charts	1 credit

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