

COURSE ARTICULATION ANALYSIS

John A. Logan College

High School

Course Title: MAC 158 Machine Tool Laboratory

Course Title(s): _____
(As it appears on transcript)

Instructor(s) _____

Course length: ___ Full year ___ Semester ___ Other
Class meets: _____ Hours per day _____ Hours per week

Contact Hours: Lec. _____ Lab _____ 4Hrs. _____

Number of Credits: _____
Total Contact Hours: _____
Text(s) Used: _____

Text(s) Used: Machine Tool Practices 7th Ed. Kibbe, Neely, Meyer, White
Recommendations:

Recommendations:
Required Grade: _____

Course Competencies/Outcomes & Evaluation Methods

Outcome/Competencies	JALC			High School		
	Yes	No	Evaluation	Yes	No	Evaluation
1. Machining using an off-set boring head on a vertical milling machine						
2. Calculating the feeds and speeds for boring a hole						
3. Milling a workpiece using angular milling techniques						
4. Cutting gears and drilling holes using an indexing head						
5. Milling machine head alignment						
6. Cutting using a vertical or a rotary table on a vertical milling machine						
7. Cut off and grooving with a slitting saw						
8. Locating holes using a vertical spacer						

9. Mill a straight keyway						
10. Mill a woodruff keyway						
11. Machining with a CNC vertical milling center						
12. Calculating feeds and speeds for CNC applications						
13. Precision surface grinding and assembly of component parts as required						

Code

O = Observation

P = Projects

PF = Portfolio

W = Written Assignment

T = Test

PR = Presentation

S = Skills/Practicum

R = Research Paper

LA = Lab Assignment

JALC Instructor's Signature:	High School Teacher's Signature:
JALC Associate Dean Signature:	Regional System Director's Signature:
Date:	Date: