



North Central State College

MASTER SYLLABUS

2026-2027

A. Academic Division: Engineering Technology, Business & Criminal Justice Division

B. Discipline: Industrial Technology – Manufacturing Technology

C. Course Number and Title: MFGT1010 Industrial Blueprint Reading

D. Assistant Dean: Brooke Miller, M.B.A.

E. Credit Hours: 2
Lecture: 1 hour
Laboratory: 2 hours

F. Prerequisites: None

G. Last Course/Curriculum Revision Date: Fall 2026 Origin date: 02/10/2012

H. Textbook(s) Title:

Print Reading for Machinists

- Author: David L. Taylor
- Year: 2018
- Edition: 6th
- ISBN: 9781285419619

I. Workbook(s) and/or Lab Manual: None

J. Course Description: Blueprint interpretation is a core skill for Engineers and Apprentices. Students will learn the fundamentals of orthographic projection, arrangement of views, application of dimensions and tolerances, machining and finishing processes, and more. Materials presented conform to the latest ANSI standards and ISO specifications. Sample prints in both standard and metric format.

K. College-Wide Learning Outcomes:

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	

L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

Outcomes	Assessments – How it is met & When it is met
1. Demonstrate an in-depth proficiency of Industrial Blueprint reading and interpretation to ANSI Y14.5M-1982 and ISO standards.	Met throughout the semester Homework, in class activities, quizzes, exams Industry standards, ANSI standards, ISO standards
2. Identify and describe standard engineering symbols, title blocks, line types and views shown on prints and drawings.	Met in the first fourth of the semester Homework, in class activities, quizzes, exams Industry standards, ANSI standards, ISO standards
3. Identify and describe standard engineering format for orthographic projections, including auxiliary views and various section views commonly represented on Industrial prints.	Met in the second fourth of the semester Homework, in class activities, quizzes, exams Industry standards, ANSI standards, ISO standards
4. Apply dimensions and tolerances to calculate acceptable limits for features on Industrial Blueprints.	Met in the second fourth of the semester Homework, in class activities, quizzes, exams Industry standards, ANSI standards, ISO standards
5. Identify and interpret various representations of part features and surface finishes.	Met in the third fourth of the semester Homework, in class activities, quizzes, exams Industry standards, ANSI standards, ISO standards
6. Identify the basic types and methods of internal and external screw thread representation and other fasteners.	Met in the last fourth of the semester Homework, in class activities, quizzes, exams Industry standards, ANSI standards, ISO standards
7. Recognize and interpret Assembly and Detail drawings in terms of their application(s).	Met in the last fourth of the semester Homework, in class activities, quizzes, exams Industry standards, ANSI standards, ISO standards

M. Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
93–100	A	4.00	Superior
90–92	A-	3.67	Superior
87–89	B+	3.33	Above Average
83–86	B	3.00	Above Average
80–82	B-	2.67	Above Average
77–79	C+	2.33	Average
73–76	C	2.00	Average
70–72	C-	1.67	Average
67–69	D+	1.33	Below Average
63–66	D	1.00	Below Average
60–62	D-	0.67	Below Average
00–59	F	0.00	Failure

N. College Procedures/Policies:

North Central State College believes that every student is a valued and equal member of the community.* Every student brings different experiences to the College, and all are important in enriching academic life and developing greater understanding and appreciation of one another. Therefore, NC State College creates an inclusive culture in which students feel comfortable sharing their experiences.

Discrimination and prejudice have no place on the campus, and the College takes any complaint in this regard seriously. Students encountering aspects of the instruction that result in barriers to their sense of being included and respected should contact the instructor, assistant dean, or dean without fear of reprisal.

* *Inclusive of race, color, religion, gender, gender identity or expression, national origin (ancestry), military status (past, present or future), disability, age (40 years or older), status as a parent during pregnancy and immediately after the birth of a child, status as a parent of a young child, status as a foster parent, genetic information, or sexual orientation*

Important information regarding College Procedures and Policies can be found on the syllabus supplement located at

<https://ncstatecollege.edu/documents/President/PoliciesProcedures/PolicyManual/Final%20PDFs/14-081b.pdf>



North Central State College
SYLLABUS ADDENDUM

Academic Division: Engineering, Business & Criminal Justice Discipline: _____
Course Coordinator: _____
Course Number: MFGT 1010-920 Course Title: Industrial Blueprint Reading
Semester / Session: Fall 202x / Session A Start / End Date: 8/17/2026- 12/11/2026

Instructor Information

Name: Jim Simmering Credentials: _____
Phone Number: 419-564-4690 Text only E-Mail Address: jsimmering@ncstatecollege.edu
Office Location: N/A Office Hours: N/A

I. Topical Timeline / Course Calendar (Subject to Change): Due dates are posted in Canvas. Several weeks have 2 assignments due. Please pay attention. You may work ahead.

Weeks	Topics	Assignment	Due Date
1			
2			
3			
4			
5			
6			
7			
8			

II. Grading and Testing Guidelines:

Final Grade Calculation: Each assignment has point values assigned.

Activity	Qty	Points	Percentage
Weekly assignments			50%
Mid term			20%
Final (3 parts)			30%

III. Examination Policy:

- The reasons for which a student will be excused from taking an examination _____
 - Hospitalization (with documented verification)
 - Death in the immediate family (with documented verification)
 - Personal illness or illness in immediate family - (doctor's excuse required).
- A student who misses an examination for any reason is responsible for contacting the instructor.

IV. Class Attendance and Homework Make-Up Policy:

- Class attendance is necessary to acquire the knowledge required to pass the course

Course Number: _____
Semester / Session: _____

Course Title: _____
Start / End Date: _____

2. Students are responsible for all assignments, due dates are posted.