

DRF 160 Machine Blueprint Reading

Instructor: Ed Morris (MSME)

Credentialed: EGR, MEC, CAD, IND, MAC

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Office Location: Hastings 322

Office Hours: by appointment

Methods of Instruction: Lecture/Lab

Course Description: Introduces interpreting of various blueprints and working drawings. Applies basic principles and techniques such as visualization of an object, orthographic projection, technical sketching and drafting terminology. Requires outside preparation.

Learning Outcomes:

- Be able to freehand sketch orthographic and pictorial drawings.
- Demonstrate an understanding of working drawings:
 - Understand line-types
 - Read drawing notes
 - Understand dimensions
- Understand sloped and skewed surface representation.
- Demonstrate an ability to read sectional drawings.
- Understand tolerances, allowances, and classes of fit.
- Understand English and Metric fasteners and thread representation.

Prerequisite/Corequisite: School Principal Approval and/or Division Approval

Course Textbook(s): Blueprint Reading for Machine Trades - 7th edition

Russ Schultz; Larry Smith

ISBN-10: 0132172208

ISBN-13: 978-0132172202

Grading/Evaluation Procedures:

Grading Scale: A= 89.6 – 100.0 B= 79.6 – 89.5 C= 69.6 – 79.5 D= 59.6 – 69.5 F= 0 – 59.5	Coursework: Employability 30% Hand Sketching 20% Working Drawings 20% Homework/Quizzes 15% Final Exam 15%
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