

## MET 2630 - Manufacturing Techniques

Fall 2026 Syllabus, Section 02, CRN 41840,

Credit hours: 3

### Instructor

Denny Cornman

Email: [dcornman@ysu.edu](mailto:dcornman@ysu.edu)

### Public Instructor Information

Instructor Title: Lecturer

Instructor Professional Qualifications:

A.A.S., Mechanical Engineering Technology, Youngstown State University, 2026

B.G.S., General Studies (Engineering and Business), Youngstown State University, 2026

Instructor Office Location: Moser Hall Rm. 4140

Instructor Office Phone: 330-941-2060

### Course Description

2630. Manufacturing Techniques. The study of materials and processes used in manufacturing, including casting, heat treatment, hot and cold working, plastics processing and machining, Geometric Dimensioning and Tolerancing. Prereq.: "C" or better in ENTC 1505. 3 s.h.

### Course Readings

| Group    | Title                                                                                             | Author | ISBN |
|----------|---------------------------------------------------------------------------------------------------|--------|------|
| Required | Textbook: Materials and Processes in Manufacturing, 13th Edition, DeGarmo, ISBN 978-1-119-72329-5 |        |      |

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

### Schedule of Topics and Assignments

| Week of | Reading(s)    | Proposed Topic                                      | Due/To Prepare for Class |
|---------|---------------|-----------------------------------------------------|--------------------------|
| 8/24    | Chapter 21-25 | Machining Processes                                 |                          |
| 8/31    | Chapter 21-25 | Machining Processes                                 |                          |
| 9/7     | Chapter 1,2   | Intro Properties of Materials                       |                          |
| 9/14    | Chapter 3,4   | Nature of Metals                                    |                          |
| 9/21    | Chapter 5     | Heat Treatment                                      |                          |
| 9/28    | Chapter 5,6   | Heat Treatment; Ferrous Materials                   |                          |
| 10/5    | Chapter 7,8   | Non-Ferrous Metals, Plastics                        |                          |
| 10/12   | Review        | Review for Mid Term Exam                            |                          |
| 10/19   | Chapter 8,9   | Ceramics; Material Selection                        |                          |
| 10/26   | Chapter 10,11 | Measurement and Inspection, Non-Destructive Testing |                          |
| 11/2    | Chapter 17,18 | Fundamentals of Metal Forming                       |                          |
| 11/9    | Chapter 19,20 | Sheet Metal Forming                                 |                          |
| 11/16   | Chapter 13    | Fundamentals of Casting                             |                          |
| 11/23   | Chapter 14,15 | Expandable Mold Casting                             |                          |

---

|       |                  |                       |
|-------|------------------|-----------------------|
| 11/30 | Review for Final | GD&T Review for Final |
| 12/7  | Finals Week      | Finals Week           |

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.