

Midland College
Master Syllabus
Fall 2026

TECM 1301 – Industrial Mathematics (3-0-0)

INSTRUCTOR: [Dann Schantz](#) (Sec. CW01)

COURSE DESCRIPTION

Math skills applicable to industrial occupations. Includes fraction and decimal manipulation, measurement, percentage, and problem solving techniques for equations and ratio/proportion applications. Students will convert between decimals and fractions; use measuring tools; calculate ratios and proportions in a technical application; transpose linear equations to solve for unknowns.

STUDENT LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand fundamentals of our number systems, which include common fractions and mixed numbers, binary and hexadecimal.
- Comprehend the importance of how real numbers including integers, fractions, exponents, etc. are used in the analysis of real-world problems.
- Convert numbers to different units of measurements (standard and/or metric).
- Use symbolism and algebraic expressions.
- Understand and perform calculations involving percentages, ratios, and proportions.

PARTICIPATION STATEMENT: Students must actively participate by completing an academic assignment by the official census date. Students who do not do so, may be dropped from the course.

REQUIRED COURSE MATERIALS: Will be current. Students should contact their instructor prior to purchasing the text and supplies to confirm required course materials.

STUDENT CONTRIBUTIONS, RESPONSIBILITIES AND CLASS POLICIES: Will be posted by the instructor in individual course syllabus. Students should contact their instructor if they have any questions.

ACADEMIC INTEGRITY: Refer to [Midland College's Scholastic Dishonesty and Academic Misconduct policy](#)

HONORS PROGRAM: Students interested in taking a course for honors credit, should contact their instructor. Refer to the [Midland College Honors Program webpage](#) for more details.

DROPPING THE COURSE: Check the MC College Calendar for the last day to withdraw from the course and receive a "W." Please talk to the instructor before withdrawing.

EVALUATION OF STUDENTS: Will be posted by the instructor in individual course syllabus. Students should contact their instructor if they have any questions.

NON-DISCRIMINATION STATEMENT: Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. For information and inquiries regarding Midland College's non-discrimination policies, go to: [Midland College Title IX Information](#)

For further information on notice of non-discrimination, visit the ED.gov Office of Civil Rights website, or call 1 (800) 421-3481.

DISABILITY SUPPORT SERVICES: Any student who, because of a disabling condition, may require some special arrangements to meet course requirements should contact disabilities support services as soon as possible at: [Midland College Accommodation Services](#)

Conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations/documentation. Accessibility Links can be found on the Pages tab in Canvas.

BUSINESS & INFORMATION TECHNOLOGY DIVISION OFFICE CONTACT INFORMATION

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