



Wayne County Community College District

COURSE SYLLABUS

MAT 172 Analytic Geometry and Calculus II

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION:

This course covers the study of integration techniques, applications and integrals, limits and indeterminate forms, infinite sequence and series, improper integrals and an introduction to parametric and polar coordinates. The use of graphing technology or a computer algebra system is required.

EXPECTED COMPETENCIES:

Upon successfully completing this course, the student will be able to:

- Experience an in-depth review of basic mathematics concepts and ideas.
- Develop a mathematics vocabulary.
- Effectively communicate mathematical concepts and ideas both orally and in writing.
- Become an effective problem solver utilizing both critical thinking and problem solving skills.
- Be able to effectively integrate technology into course work to enhance learning opportunities.
- Develop and enhance ability to work effectively in a collaborative setting.
- Establish ownership of the learning, successfully applying it in situations real to student's life.
- Be able to demonstrate and present multiple problem solving situations as required.
- Develop and maintain a positive attitude toward the study of mathematics.
- Take the initiative to embrace, or take advantage of each learning opportunity.
- Explore Ethno-Mathematics

PREREQUISITES: MAT 171

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E