COURSE | PREFIX NO. | EFFECTIVE DATE | NEXT REVIEW DATE
-------|------------|----------------|-------------------
MAT    | 240        | September      | September         

TITLE: Analytical Geometry and Calculus III

CREDITS | CONTACTS
---------|-----------
4         | CLASS - LAB - TOTAL
4 0 4

PREREQUISITES: MAT 141 with a grade of "C" or better

DESCRIPTION: This course includes the following topics: multivariable calculus, including vectors; partial derivatives and there applications to maximum and minimum problems with and without constraints; line integrals; multiple integrals in rectangular and other coordinates; and Stokes’ and Green’s theorems.


MATERIALS (specifying those to be purchased by student): The student should purchase textbook, paper, pencils, and calculator.

COLLATERAL READING: None

CLASS MANAGEMENT ACTIVITIES (Attendance, tardies, testing, etc.):
Academic dishonesty: Students are expected to do their own work. Please refer to the NETC Student Code and Grievance Procedure for a definition of academic dishonesty and an outline of the disciplinary action that may result therefrom.

Attendance: Students are expected to attend all scheduled classes and are responsible for all class work, homework, notes, etc., whether or not they are present. In the event of extenuating circumstances, such as illness, you are allowed to miss up to 8 hours. The student will be dropped after missing more than 8 hours of scheduled classes. If an instructor drops a student for excessive absences at any time during the semester, a grade of “F” will be assigned. If the student withdraws from the course, a grade of “W” or “WF” will be assigned as outlined in the college catalog. There is no such thing as an excused absence!! If you exceed the allowed number of absences, you will be dropped.

Tardies: A student is considered tardy if not present for roll call
which is taken at the beginning of the class. Three tardies will be considered as one (1) hour absence.

Classroom Etiquette:
1. Electronic communication devices (pagers, cell phones, etc.) are NOT allowed in the classroom. On-call emergency personnel should see the instructor for an exemption.
2. No visible food or drinks are allowed in the classrooms.
3. No radio or headphones are allowed in the classrooms.

Disabilities Statement: Students with disabilities are encouraged to contact the Vice President for Student Services to discuss needs or concerns as they pursue an academic program and participate in campus life. The Vice President for Student Services will provide guidance regarding official documentation of disabilities and/or accommodation of needs. (See College Catalog)

RESOURCES (A-V, persons, tools/equipment): Computerized instruction on selected topics and other self-help materials are available in the NETC Student Success Center. Ask your instructor for details.

COURSE TOPICAL OUTLINE (List topics and sub-topics of course) and Calendar or approximate length of time devoted to topic.

TENTATIVE CLASS OUTLINE

<table>
<thead>
<tr>
<th>WEEKS 1 - 3</th>
<th>CHAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEKS 4 - 6</td>
<td>CHAPTER</td>
</tr>
<tr>
<td>WEEKS 7 - 9</td>
<td>CHAPTER</td>
</tr>
<tr>
<td>WEEKS 10 - 12</td>
<td>CHAPTER</td>
</tr>
<tr>
<td>WEEKS 13 - 15</td>
<td>CHAPTER</td>
</tr>
</tbody>
</table>

OBJECTIVES OF COURSE:

MATHEMATICAL/COMPUTATIONAL COMPETENCIES:
- The student will be able to perform arithmetic operations using whole numbers, fractions, decimals and percentages using English
and metric systems.

- The student will be able to solve problems using signed numbers, linear equations, and geometric formulas.

- The student will be able to construct and interpret various types of graphs.

- The student will be able to perform various types of measurements.

**INSTRUCTIONAL METHODS TO COMPLETE OBJECTIVES:**

Lectures covering course material will be supplemented by exercises to be completed outside of class. Emphasis will be placed on problem solving techniques and understanding underlying theory.

**EVALUATIVE METHODS TO APPRAISE OBJECTIVES:**

The final grade for MAT 240 will be the mean of the grades of the topical tests. No test grades will be dropped.

**MAKE-UP TEST PROCEDURE:**

As a general rule no make-up tests are given. Exceptions to this rule are made only if the student has discussed with the instructor his or her individual need. This discussion must take place before the test is given to the rest of the class or shortly after the class is over. Failure to make prior arrangements will result in not being allowed to take a make-up test.

**GRADING SCALE:**

The grade point scale that will be used is as follows:

- A = 93 - 100
- B = 85 - 92
- C = 77 - 84
- D = 69 - 76
- F = Below 69