

# Analytical Geometry & Calculus II (MTH 169-03)

MWF 2:00–2:50, Room: SC 224, TTH 1:30–2:45, Room KL 403

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<b>Instructor:</b>	Dr. Muhammad Usman
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<b>Email:</b>	Muhammad.Usman@notes.udayton.edu
<b>Office Hours:</b>	M–TH 9:30–10:30AM, M–W 12:30–1:30PM, walk-ins or appointments
<b>Textbook:</b>	Calculus (6th edition), by James Stewart.
<b>Prerequisites:</b>	MTH 168
<b>TA/SI Leader:</b>	Danielle Bott

**Course Outline:** Chapter 6: Sections 6.1-6.3; Chapter 7: Section 7.8; Chapter 8: Sections 8.1-8.4, 8.7, 8.8; Chapter 9: Sections 9.1, 9.2; Chapter 11: Sections 11.1-11.5; Chapter 12: Sections 12.1-12.6, 12.8-12.10.

## Course Objectives:

Students will demonstrate, in writing, knowledge of factual content in traditional subject areas of analytic geometry and algebra in two dimensions including parametric equations and polar coordinates, applications of differential and integral calculus, various techniques of integration, evaluation of limits which have indeterminate forms, evaluation of improper integrals, and infinite series. This course is intended to achieve the following goals:

- Gaining factual knowledge (terminology, classifications, methods, trends)
- Learning fundamental principles, generalizations, or theories
- Learning to apply course material (to improve thinking, problem solving, and decisions)

**Course Goal:** This is the second course in the three course calculus sequence, MTH 168, MTH 169, MTH 218; it is intended for mathematics, mathematics in secondary education, physical science and engineering majors. This course extends and applies the calculus skills learned in MTH 168 and introduces/reviews concepts of analytic geometry. It also covers the topics which are useful in the differential equations course (MTH 219) which is required for science and engineering students. This course is designed to help students develop knowledge in the above mentioned areas of calculus and analytic geometry and to help them develop analytic, computational, and problem solving skills.

## Technology:

1. Calculators are not allowed for any Exam or Quiz.
2. Maple will be used. (Computer Lab SC 307)

3. **Isidore** (<http://isidore.udayton.edu>)

This course will utilize the Isidore Learning Management System - <http://isidore.udayton.edu>. Use your Novell (LDAP) username and password to log into the system and click on the course tab to enter the site. The site may be used for a variety of things including, announcements, online quizzes, assignment submissions, and discussion forums. If you cannot log into the site, or if you have any problems viewing or accessing the course tab once you've logged in, it's your responsibility to contact the Udit Help Desk for assistance at x93888 (937-229-3888 off campus). If you've registered for the class late it may take 24-48 hours before you gain access to the site. For specific questions about course assignments and deadlines, please contact the instructor. In most cases students will gain access to course sites 2-3 days before the semester begins and lose access 2 weeks after the semester ends.

4. Please visit my web page (<http://academic.udayton.edu/muhammadusman>) for some basic information about the class

**Grade Policy:**

Grades will be based on the following assessments.

Homework .....	15 %
Quiz .....	20 %
Exams .....	40 %
Final .....	25 %

Late homework will not be accepted, there are no makeups for any Quiz or exam however, one lowest score homework will be dropped.

**Final Grades:** If your overall percentage of total points falls into the following range, you will receive the corresponding grade: A: (90,100]; B: (80, 90]; C: (70, 80]; D: [60, 70]; F: below 60%. Plus and minus grades will be given at the instructor's discretion.

**Assessment:** Assessment will consist of weekly homework (with and without Maple), quizzes, tests (tentatively scheduled dates: **Tue (September 15th), Tue (October 6th), Tue (November 3rd), Thu (December 3rd)**), and a comprehensive final examination. Homework problems will be posted on *Isidore*.

**Attendance:** Attendance will be monitored. Students are expected to attend every class meeting and arrive on time. If a student is absent from a class, he/she is responsible for all material, announcements and assignments missed, and due dates. Thus if you miss a class, check the due dates on *Isidore*.

**Missed Assessments:** Generally, late homework will not be accepted; nor will there be make up Quiz/exam for missed ones. Under special circumstances, however, a student may be permitted to make up work, which they were unable to submit, or exams, which they were unable to attend. Some of these circumstances include:

- Representing written proof in case of an official extracurricular activity.
- Observance of a religious holiday.
- Personal illness or family medical emergency.

**Academic Integrity Policy:** Students are advised to do all Homework, Quizzes and Exams individually. Identical work, copying or submitting another student's work will be considered cheating. All students are responsible for maintaining standards of academic integrity. The University Rules, including the Student Code of Conduct, and other documented policies of the department, college, and university related to academic integrity will be enforced. Any violation of these regulations, including acts of plagiarism or cheating, will be dealt with on an individual basis according to the severity of the misconduct.

**The Honor Pledge:** I understand that as a student of the University of Dayton, I am a member of our academic and social community. I recognize the importance of my education and the value of experiencing life in such an integrated community. I believe that the value of my education and degree is critically dependent upon the academic integrity of the university community, and so in order to maintain our academic integrity, I pledge to:

- Complete all assignments and examinations by the guidelines given to me by my instructors;
- Avoid plagiarism and any other form of misrepresenting someone else's work as my own;
- Adhere to the Standards of Conduct as outlined in the Academic Honor Code. In doing this, I hold myself and my community to a higher standard of excellence, and set an example for my peers to follow.

**Exam polices:** No books, notes or calculators will be allowed on exams or quizzes. You should adjust your home work accordingly; first work out all problems you can without peeking into the book or notes and then focus your study on those you are having problems with.

**Help From Supplemental Instruction (SI):** A great source of help is available through The Office of Student Learning Services (SLS) at the Ryan C. Harris Learning Teaching Canter. SI utilizes peer-led group study to help students succeed in traditionally difficult courses. SI can be described as super group tutoring wherein the SI Leader facilitates group study strategies and collaborative study techniques. SI Leaders and instructors can promote SI as guaranteed study time as students have an opportunity to meet with classmates outside of class and engage in the course material. SI helps students to:

- Understand and plan for the demand of college-level courses
- Gain problem-solving experience
- Become more actively involved in the course
- Develop more effective study skills
- Understand what to learn and how to learn
- Develop transferable study skills

**Important Dates:** Last day to drop without record is Wednesday, Sep. 16th. The last day to drop with a record of W is Monday, Nov. 16th. Last day of classes is December 11th.

**Note:** The information given here is subject to change. Any major changes will be announced in the class.