

Syllabus MATH 2325 for Fall 2013

- General Information

- MATH 2325 Analytic Geometry and Calculus 2
- Faculty Information:
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Office hours: MWF 9:30 am - 11:00, TR 9:15 am - 11:00, TR 3:15 pm - 4:00

- Course Information

- Catalogue Description:
2325 Analytic Geometry and Calculus II **5 credit hours**
Course covers topics that include: techniques of integration; indeterminate forms and improper integrals; infinite series; analytic geometry; plane curves and polar coordinates.
Prerequisite: MATH 1124.
- Required Text:
Calculus, eighth edition by Larson, Hostetler and Edwards
Copyright 2006 by Houghton Mifflin Company, Boston
ISBN: 0-618-50298-X
- Course Objectives: To develop students'
 - * understanding of Calculus through algebraic relationships,
 - * understanding of Calculus through numeric approximations,
 - * understanding of Calculus through graphical representations,
 - * understanding of Calculus through programming,
 - * abilities in numeracy,
 - * and abilities to apply and integrate knowledge.
- Student Learning Outcomes:
 - * The student will demonstrate algebraic manipulation at a level sufficient to obtain and justify results through Calculus.
 - * The student will use spreadsheets and computer algebra systems to gain mathematical insight and to solve numerical problems.
 - * The student will perform the necessary calculations to solve quantitative problems.
 - * The student will convert relative information into appropriate mathematical forms.
 - * The student will explicitly describe assumptions in data analysis.
 - * The student will explain information presented in mathematical forms.
 - * The student will make judgments and draw appropriate conclusions based on the quantitative analysis of data.
 - * The student will use quantitative information to support an argument or purpose of the work.
- Education Program Preparation:
This course is required for content preparation in Secondary and Middle Grades with a Single Emphasis Education Programs and helps prepare teacher candidates with the

knowledge base for Mathematics required in the Kentucky Core Academic Standards and the College Career Readiness Standards. The Conceptual Framework for the Education Program, "Teacher as Leader for the 21st Century", is incorporated. The Division of Natural and Behavioral Sciences works with the Education Program in preparing the teacher candidates with the knowledge base required to meet Kentucky Teacher Standard I and the Education Program Student Learning Outcome for Content Knowledge. Teacher candidates will be equipped to teach middle grades and high school students and meet requirements for Unbridled Learning.

– Required Assignments:

Grade Element	Grade Factor
Instructor	15%
Gateway Exams	15%
Midterm Exams	50%
Final Exam	20%

An explanation of each of the grade elements follows:

* Instructor:

This portion of the grade will be based on homework, readings, quizzes and participation.

* Gateway Exams:

There will be 2 gateway exams. One will be on basic derivative rules given early in the semester. The second will be on basic integration techniques given late in the semester. There is no calculator allowed for these exams and no partial credit. You must get 85% or higher to get any points for this portion of the grade. You will be able to take each exam as many times as necessary, but you must wait one week between attempts. Successful completion will be worth 4 points.

* Midterm Exams:

There will be 3 or 4 exams given approximately evenly spaced during the semester. Each midterm exam will be worth up to 4 points.

* Final Exam:

There will be a comprehensive final exam given during the time set by the registrar. The final exam will be worth up to 4 points.

– Grading Scale:

Your Average	Your Reported Grade
[3.85, 4.0]	A = 4.0
[3.55, 3.85)	A- = 3.7
[3.2, 3.55)	B+ = 3.4
[2.85, 3.2)	B = 3.0
[2.55, 2.85)	B- = 2.7
[2.2, 2.55)	C+ = 2.4
[1.85, 2.2)	C = 2.0
[0.85, 1.85)	D = 1.0
[0.0, 0.85)	F = 0.0

– Academic Support:

Academic Success Center

The Academic Success Center offers peer tutoring to aid students in completing class assignments, preparing for exams and improving their understanding of content covered in a particular course. In addition, computers are available for student use. Students are encouraged to utilize this Center as a resource for improving study strategies and reading techniques. The Center also offers assistance with other academic problems resulting from documented learning disabilities. All services are free of charge to all Lindsey Wilson College students (students with learning disabilities are responsible for providing documentation from an appropriate outside professional source such as a professional evaluation or school IEP). Please contact Maretta Garner, Tutor Coordinator at 384 - 8037 for further information and assistance.

Writing Center and Mathematics Center

The Writing Center (located in the Slider Humanities & Fine Arts Building), and the Mathematics Center (located in the Fugitte Science Building) are available for specialized tutoring at no charge to students. Please contact Jared Odd, Writing Center Coordinator, at 384-8209 or Linda Kessler, Math Center Coordinator, at 384-8115 for further information and assistance.

– Academic Integrity:

Academic integrity is essential to the existence of an academic community. Every student is responsible for fostering a culture of academic honesty, and for maintaining the integrity and academic reputation of Lindsey Wilson College. Maintaining a culture that supports learning and growth requires that each student make a commitment to the fundamental academic values: honesty, integrity, responsibility, trust, respect for self and others, fairness and justice.

To foster commitment to academic integrity, faculty are asked to require each student to place and sign the following Honor Code on tests, exams and other assignments as appropriate: *On my honor as a student, I have neither given nor received any unauthorized aid on this assignment/exam.*

Violations of the academic integrity policy include cheating, plagiarism or lying about academic matters. Plagiarism is defined as any use of another writer's words, concepts, or sequence of ideas without acknowledging that writer by the use of proper documentation. Not only the direct quotation of another writer's words, but also any paraphrase or summary of another writer's concepts or ideas without documentation is plagiarizing that writer's materials. Academic dishonesty is a profoundly serious offense because it involved an act of fraud that jeopardizes genuine efforts by faculty and students to teach and learn together. It is not tolerated at Lindsey Wilson College.

Students who are determined to have plagiarized an assignment or otherwise cheated in their academic work or examinations may expect an F for the activity in question or an F for the course, at the discretion of the instructor. All incidents of cheating or plagiarism are reported by the instructor to the Academic Affairs Office along with copies of all relevant materials. Each instance of cheating or plagiarism is counted separately. A student who cheats or plagiarizes in two assignments or tests during the same semester will be deemed guilty of two offenses. If the evidence is unclear, or if a second offense occurs, the VP for Academic Affairs or Associate Dean to move the student before the campus Judicial Board for review. Violations will ordinarily result in disciplinary suspension or expulsion from the College, depending on the severity of the violation

involved. **Note:** The College has purchased Turnitin.com, a web product used to detect plagiarized documents.

– Statement on Learning/Physical Disabilities:

Lindsey Wilson College accepts students with learning disabilities and provides reasonable accommodation to help them be successful. Depending on the nature of the disability, some students may need to take a lighter course load and may need more than four years to graduate. Students needing accommodation should apply as early as possible, usually before May 15. Immediately after acceptance, students need to identify and document the nature of their disabilities. It is the responsibility of the student to provide to the College appropriate materials documenting the learning disability, usually a recent high school Individualized Education Program (IEP) and results from testing done by a psychologist, psychiatrist, or qualified, licensed person. The College does not provide assessment services for students who may be learning disabled. Although LWC provides limited personal counseling for all students, the College does not have structured programs available for students with emotional or behavioral disabilities. For more information, call Mr. Ben Martin at 270-384-7479.

– Final Exams:

Final Exams are scheduled for the Fall 2011 semester on December 5-9 and May 7-11 for the Spring 2012 semester. The academic calendar, which contains the schedule for finals, is in the College Catalog and course schedule listing. Please make any necessary flight arrangements after the final exam week. Students will not be permitted to take early finals unless extenuating circumstances exist. "Extenuating circumstance" means illness, a verified family emergency or participation in officially sponsored travel in support of an event arranged by the College. Travel arrangements must be made in sufficient time that tickets may be obtained after final exams and the semester is officially over. All requests for early finals must be made in person to the Academic Affairs Office.

– Questioning a Grade – The Student Academic Complaint Policy:

A student, who wishes to question an assignment grade, or other academic issue, should follow the procedure below:

1. Whenever possible, the student will first go to the faculty member who has assigned the disputed grade. Complaints regarding grades should be made within seven (7) days of receipt of the disputed grade and, if possible, will be decided by the faculty member within seven (7) days of receipt. If the disputed grade is the final grade for the course, receipt is defined by when the final grade is posted online by the registrar. (Please refer to the next section for appealing a final grade.)
2. Unless there are extenuating circumstances, the student may, within seven (7) days request in writing a review of such decision by the Chair of the division in which the grade was assigned. Upon receipt of such request, that Chair will direct the faculty member and the student to each submit, within seven (7) days, if possible, a written account of the incident, providing specific information as to the nature of the dispute.
3. Upon receipt of these written accounts, the Chair will meet, if possible, within seven (7) days with the faculty member and the student in an effort to resolve the dispute and will render his or her decision in writing.
4. If either the student or the faculty member desired to appeal the decision of the Division Chair, the student or faculty member may, within seven (7) days by written

request to the chair, ask that the matter be reviewed by a Grade Appeals Panel convened by the Academic Affairs Office.

5. If the disputed grade is assigned at the end of a fall or spring semester and the student and faculty member cannot meet to resolve the issue, the student should contact the faculty member by e-mail within seven (7) days of receipt of the disputed grade. If the issue cannot be resolved by e-mail within the time limit, steps 2, 3, and 4 of the appeal may extend into the beginning of the semester immediately following receipt of the disputed grade by following the timeline above.

A student who wishes to question a final grade should follow the procedure below:

1. Confer with the faculty member who assigned the disputed grade.
2. If the disputed cannot be resolved, a written request for a grade appeal must be submitted to the Academic Affairs Office before the first day of the semester following the one in which the grade was issued. The written request must include the specific bases for the appeal.
3. The Academic Affairs Office will convene a Grade Appeals Panel, comprised of the Vice President for Academic Affairs, the Associate Academic Dean, and the chair of the academic unit which houses the course for which the grade is appealed. If one of the members is the faculty member who issued the grade, an alternate will be appointed. The student and the faculty member may appear separately before the panel to explain their positions. The hearing is non-adversarial. Neither the faculty member nor the student may be accompanied by other individuals to the meeting of the Grade Appeals Panel. The Grade Appeals Panel will notify the student of its decision, if possible, within seven (7) days of the meeting.

– Cell Phone Policy:

Student cell phones will be off during class time unless prior arrangement is made with the instructor.

– Adding/Dropping a Course:

Students enrolled in the following courses cannot drop these classes during the semester: READ 0713, 0723, 0733, 0903, 1013, and 1023; STSK 1003; ENGL 0903 and 0904; and ESL 0803, 0804 and 0854.

For undergraduate classes at the Columbia campus, adding a course, dropping a course, or changing from one section of a course to another section of the same course requires the approval of the advisor and the instructor for each course involved as indicated on the Add/Drop Form. The change must be reported to the Business Office and the Registrar's Office on an Add/Drop Form, which may be obtained from the Registrar's Office. For AIM courses, adding a course, dropping a course, or changing from one section of a course to another section of the same course requires the approval of the Director of the Evening Program. For courses taught at Community sites, adding a course, dropping a course, or changing from one section of a course to another section of the same course requires the approval of the Site Coordinator for the campus. Permission to add courses will not be given after the last date for late registration. Authorization for dropping a course will not be approved after more than 75% of the instructional days for a course are completed, as outlined below:

Course	Deadline	Submitted by the Student to
Columbia undergraduate and graduate full semester courses	Not later than 30 days before the end of the semester	Registrar
AIM courses	By the sixth week of class	Director of the AIM Program or the Registrar
Courses at Community Campuses	By the third weekend of class	Site Coordinator or the Registrar

If changes are not properly approved and officially reported as stated above, students will receive a grade of F in the courses for which they are officially registered, and they will be charged for all such courses. Students will not receive credit for changed or added courses unless they officially register for those courses.

- Course Topics, Assignments, and Exams

- Tentative course content:

The topics covered will relate to chapters 8 through 13 of the text:

1. Week 1: Chapter 8 Integration Techniques, L'Hôpital's Rule, and Improper Integrals as needed
2. Weeks 1 to 4: Chapter 9 Infinite Series
3. Week 5: Some Numerical Methods for Differential Equations
4. Weeks 6 to 9: Chapter 10 Conics, Parametric Equations, and Polar Coordinates
5. Weeks 10 and 14: Chapter 11 Vectors and the Geometry of Space
6. Week 15: Partial Derivatives

- Important Dates:

August 19, 2013 - AIM S1 classes begin

August 21, 2013 - Day classes begin

August 23, 2013 - Last day to register or add an AIM S1 class

August 27, 2013 - Last day to register or add a day class

September 2, 2013 - Labor Day Holiday (No Classes)

September 28, 2013 - Homecoming

September 30, 2013 - Last day to drop/withdraw from an AIM S1 class

October 14, 2013 - Midterm grades due

October 14-18, 2013 - Fall break, (No Classes)

October 21, 2013 - AIM S2 classes begin

October 25, 2013 - Last day to register or add an AIM S2 class

November 4-8, 2013 - Junior/Senior Advance registration for Spring 2012

November 11, 2013 - Last day to drop/withdraw from a day class

November 11-15, 2013 - Freshman/Sophomore Advance registration for Spring 2012

November 28-29, 2013 - Thanksgiving Holiday, (No Classes)

December 2, 2013 - Last day to drop/withdraw from an AIM S2 class

December 6, 2013 - Last day of classes

December 9-13, 2013 - Final Examinations

December 13, 2013 - Fall term ends

December 14, 2013 - Commencement

December 16, 2013 - Final Grades Due