Instructor: Dr. Nicolas Petit
Email: nicolas.petit@emory.edu
Office: Pierce 126
Phone: 770-784-8516
Meeting times: Thursdays, 11-11:50 AM

Text Material: James Stewart, *Single Variable Calculus: Early Transcendentals, 8th Edition*; additional resources will be posted on Canvas.

Course Content: The student will review the basics of differential calculus, then focus on integral calculus, both in its geometric significance and integration techniques. The course will cover u-substitution, integration by parts, trigonometric integrals, trig substitution, partial fractions and improper integrals. Time permitting, we will discuss some application of integrations, starting with differential equations.

Course Goals: Upon successful completion of this independent studies course the student will:
1. Differentiate correctly algebraic, trigonometric, logarithmic and exponential functions.
2. Evaluate definite and indefinite integrals using a variety of techniques.
3. See applications of derivatives and integrals to fields of the student’s interest, e.g. economics.

Grading: Course grades will be determined as follows:

<table>
<thead>
<tr>
<th>Attendance of meetings</th>
<th>100 points</th>
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<tbody>
<tr>
<td>Weekly Homework sets</td>
<td>600 points (≈ 50 each)</td>
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<tr>
<td>2 take-home tests</td>
<td>150 points each</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>1000 points</strong></td>
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Letter grades will be determined based on the total points earned: A: at least 900 points; B: 800–899 points; C: 700–799 points; D: 600–699 points; F: fewer than 600 points. Plus and minus grades may be assigned for sums of points near cut-off values.

Honor Code: Oxford College is a community of scholars. As scholars, we are interested in pursuing truth and becoming more adept at our individual contribution to this pursuit. As a community, we have certain expectations of—and responsibilities to—each other in our scholarly endeavors. The Honor Code is the document detailing expected behaviors as members of this community, as well as the means by which these expectations are upheld; a copy of this document is available at [http://oxford.emory.edu/catalog/regulations/honor-code.html](http://oxford.emory.edu/catalog/regulations/honor-code.html).

Generally, if permission is not given in writing to use a certain resource—including collaboration with other people—then any use of that resource in the completion of an assignment constitutes a violation of the Honor Code. While completing in-class assignments, all personal papers and cell phones must be put away for the duration of the assessment. Students who have taken an exam or test must not discuss the content or nature of the assessment until all students have completed the assignment. Any graded out-of-class assignments should be completed using only the resources explicitly permitted in that assignment’s written instructions. The guidelines listed here are not intended to be exhaustive; if you are uncertain about any aspect of how an assignment is to be completed, ask first!

Accessibility: If you have a documented disability and have anticipated barriers related to the format or
requirements of this course, or presume having a disability (e.g. mental health, attention, learning, vision, hearing, physical or systemic), and are in need of accommodations for this semester, we encourage you to contact the Office of Accessibility Services (OAS) to learn more about the registration process and steps for requesting accommodations at oas_oxford@emory.edu. If you are a student that is currently registered with OAS and have not requested or received a copy of your accommodation notification letter, please notify OAS immediately.

Students who have accommodations in place are encouraged to coordinate with their professor during the first week of the semester, to communicate specific needs for the course as it relates to approved accommodations. Accommodations may not be implemented until the instructor is provided an accommodation letter and discusses the accommodation plan for this course face to face with the OAS student. Accommodations may not be implemented retroactively. All discussions with OAS and faculty concerning the nature of your disability remain confidential. For additional information regarding OAS, please visit the website: http://accessibility.emory.edu.

Inclusivity: Oxford College of Emory University’s ideals of inclusivity compel us to foster an environment where people of diverse backgrounds, identities, abilities, and ideologies are affirmed, respected, and seen as a source of strength—where we strive to learn together, and ultimately thrive communally. When these ideals are not upheld, we encourage discussion to better understand and spur action towards improvement. In my teaching, I always aim to challenge your thinking, but never to challenge your identity. If there is anything I can do to help you feel more comfortable and engaged (pronoun usage, calling on you more often, calling on you less frequently, etc.), please let me know.

The Honor Code of Oxford College applies to all work submitted for credit in this course. By submitting such work, you pledge that work was done in accordance with the rules stipulated on the assignment and in this syllabus.