

The Georgia Institute of Technology, Spring 2016  
**Math 2551 - Calculus III**  
Sections L1, L2, L3.

Lecture: TR 3:05 – 4:25PM D. M. Smith 105  
Recitation: MW 2:05 – 2:55PM (L1): Skiles 156; (L2): Skiles 168; (L3): Skiles 170.

**Instructor**: Irina Holmes Office: Skiles 017  
Office Phone: 404-894-9431 Office Hours: TR 1:30 – 2:45PM  
Email: [irina.holmes@math.gatech.edu](mailto:irina.holmes@math.gatech.edu) or by appointment  
Course Webpage: <http://people.math.gatech.edu/~iholmes6/S16Math2551L.html>

**Teaching Assistants:**

Section (L1): Zhibo Dai Office: Skiles 140  
Email: [zdai37@gatech.edu](mailto:zdai37@gatech.edu) Office Hours: M 3 – 4PM

Section (L2): Qianli Hu Office: Skiles 146a  
Email: [qhu33@gatech.edu](mailto:qhu33@gatech.edu) Office Hours: MW 10 – 11AM

Section (L3): Hangfan Li Office: Skiles 140  
Email: [hli434@gatech.edu](mailto:hli434@gatech.edu) Office Hours: W 1 – 2PM

**Text**: The following text is required for the course:

Title: “Thomas’ Calculus: Early Transcendentals”  
Publisher: Addison-Wesley (Pearson)  
Edition: 13th

**Prerequisite and Description**: Prerequisites for the course are MATH 1502 with a *minimum grade* of D. Math 2401 is an introduction to multivariable calculus. Topics include: Linear approximation and Taylor’s theorems, Lagrange multiples and constrained optimization, multiple integration and vector analysis including the theorems of Green, Gauss, and Stokes.

**Topics Covered During the Semester:**

<u>Topic</u>	<u>Lectures</u>
Vector Calculus, parametric curves and motion	2
Functions of several variables, visualization and partial differentiation	5
Functions of several variables, gradients, optimization, differentials	6
Double and triple integrals	7
Vector analysis	8

**Attendance**: Attendance is required for all lectures. The student who misses a class meeting is responsible for any assignments and/or announcements made. Office hours will not be utilized to re-teach material presented in class. However, questions to better understand the course are always welcome.

**Homework:** This course will have daily homework assignments which will be administered through MyMathLab (MML). Please see the information about MML provided below.

**Quizzes:** There will be weekly quizzes (a total of 10) throughout the semester.

**Exams:** This course will have three mid-term exams and a comprehensive final exam. **All mid-term exams will be given during recitation, in the room where your recitation regularly meets.** The exams for the course will take place on:

(Tentative) Exam Dates:

Exam 1	<b>Wednesday, February 10</b> <u>during recitation</u>
Exam 2	<b>Wednesday, March 9</b> <u>during recitation</u>
Exam 3	<b>Wednesday, April 13</b> <u>during recitation</u>
Final Exam	<b>Thursday, May 5</b> 11:30AM – 2:20PM In our regular <u>lecture room</u> (D. M. Smith 105)

#### **Exam/Quiz Rules:**

- **Calculators:** There are no calculators allowed during tests and quizzes.
- Notes or “cheat sheets” will not be allowed on exams or quizzes.
- No credit will be given on tests for a correct answer without the intermediate steps.
- **Make-up Policy:** There will be no opportunities for make-up tests after the fact. **In the event of an absence due to travel representing Georgia Tech, such as an intercollegiate sports competition, you must notify the professor at least two weeks in advance to arrange an early test or other alternative.** Otherwise, such absences will be treated as personal.
- **Regrade Policy:** The mid-term exams will be returned to you by your TA during recitation. There will then be a 20-30 minute period during recitation when the class will be able to discuss the solutions of the exam with the TA. If, after viewing the solutions and the grading scheme, you believe a problem or more should be regraded, you must leave your exam with the TA, along with the numbers of the problems you want regraded. Your TA will return your exam and request to the professor. **The moment you leave the recitation room with your exam, you can no longer ask for regrading of any part of that exam.**

**Learning Disabilities:** It is the right of any student with a certified learning disability to request necessary accommodation. Such requests must be made well in advance of the time that the accommodation is required and a letter of documentation from the **ADAPTS** office must be presented at the time of any request.

**Academic Honesty:** It is expected that all students are aware of their individual responsibilities under the **Georgia Tech Academic Honor Code**, which will be strictly adhered to in this class. **Any violations must be reported directly to the Dean of Students.**

**Grades:** Grades will be based upon quizzes, mid-term exams, the final exam, and homework. Course grades will be assigned from the *maximum* of the following formulas:

	Method 1	Method 2	Method 3
Homework	10%	10%	10%
Quizzes	20%	15%	10%
Midterm Exams	40%	35%	35%
Final Exam	30%	40%	45%

The usual ten-point scale will be used (A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: 0-59), however, if necessary, adjustments will be made to arrive at a standard grade distribution for the course. On an individual basis, significant improvement over the semester will be taken into account.

Two quiz grades and five homework grades will be dropped when computing your grade, and this is the only mechanism for coping with personal events such as illness and family emergencies. The grade on the final exam may replace the lowest midterm exam grade, if it is higher.

**Additional Resources:** In addition to the textbook, lectures, and office hours there are other resources available that might be of use for you during the course. All Georgia Tech students are eligible for 1-on-1 tutoring, see the website associated with the [Office of Success Programs](#). There is also the [Math Lab](#) in the School of Mathematics where tutoring services are provided.

### **Important Dates for Spring 2016:**

1/11	First day of classes
1/15	Last day to register, Drop without a “W”
1/18	M. L. K, Jr. National Holiday - No Class
1/19	Fee Payment Deadline
2/19	Progress Report Deadline
3/16	Withdrawal Deadline
3/20 – 3/26	Spring Break
4/25,26	Final Instructional Class Days
4/27	Reading Period (all day)
4/28	Reading Period 8am – 2:20pm Final Exams Period begins 2:50pm
4/29 – 5/5	Final Exams Period
5/3	Reading Period 8am – 2:20pm
5/6	Final Exam Conflict Period 8am – 2:20pm.

For more important dates for this course, make sure to regularly review the course website. **Make sure you refresh this website every time you visit, as it will be regularly updated!**