**SYLLABUS MATH 1111, College Algebra**

**Instructor and Contact Information**

**Instructor**: Stephanie Reikes

**E-mail**: [stephanie.reikes@gatech.edu](mailto:stephanie.reikes@gatech.edu)  
**Office**: Clough Commons 283C (Center for Academic Success)  
**Office Hours**:

**Course Description and Learning Outcomes**

**Course Title**: MATH 1111, College Algebra

**Course Meeting Times**:

**Course Institution**: GEORGIA INSTITUTE OF TECHNOLOGY

**Course Location**:

**Textbook**:

**MML Course ID:**

**Purpose:** MATH 1111 provides an in-depth study of the properties of algebraic, exponential, and logarithmic functions as needed for pre-calculus and calculus. Emphasis is on using algebraic and graphical techniques for solving problems involving linear, quadratic, rational, polynomial, exponential, and logarithmic functions.

**Course Websites**

**Course Information:** Canvas(*required*)

**Textbook/Homework Access:**

**Course Organization and Participation**

You are required to attend all scheduled sessions at all times.

As your instructor, my role is to prepare you for future math courses at Georgia Tech, provide you with ample assignments and assessments to gauge your understanding and knowledge of the subject matter, provide feedback on your performance, and be available for assistance when needed.

As students, you are expected to take your responsibility seriously, attend and participate in all of the class meetings, behave in a respectful manner to your instructor and fellow students at each class meeting, complete all assignments in a timely and professional manner, study the subject matter outside of class time, and ask for help when necessary.

**Course Requirements**

**PARTICIPATION**: As the goal of this class is to teach you college algebra, the sessions will be run in an interactive manner. At each meeting, students will be expected to complete problems that reinforce the material. The instructor may ask students to work separately or in groups on these problems.

Students can earn up to 2 points per class and will be updated with this grade throughout the term.

|  |  |
| --- | --- |
| Points | Criteria |
| 0 | Absent |
| 1 | Present, but not engaged in taking notes and not involved in class discussion/activities |
| 2 | Present, engaged in taking notes and involved in class discussion/activities |

**HOMEWORK**: You are expected to complete all assigned homework, in a timely manner. There will be homework assignments for each section covered. The assignments are graded on score not completion.

**QUIZZES:** Weekly quizzes will be given. The quiz will be 2-5 questions from previous homework assignments and will be graded on score.

**Exams:** There will be four midterm exams administered during lecture.

**Final:** The final exam will cover all course materials.

**Grading System**

*Your final grade will be computed as follows:*

|  |  |
| --- | --- |
| Class Participation | 10% |
| Homework | 10% |
| Quizzes | 20% |
| Exams | 40% (10% each) |
| Final | 20% |

***The standard 10-point scale will be used to assign letter grades, but the cut-offs may be lowered to arrive at a standard distribution for the course:***

**A**: [90%,100%];  **B**: [80%, 90%); **C**: [70%,80%) ;  **D**: [60%, 70%);  **F**: [0, 60%).

**Class Policies**

**Attendance:** You are expected to come prepared and actively participate in every class session. In the event of an absence, you are responsible for all missed materials and any additional announcements or schedule changes given in class.

Class disruptions of ANY kind will NOT be tolerated and may result in your removal from the classroom and/or loss of participation points for that day.

Please show courtesy to your fellow classmates and instructor by adhering to the following class rules:

* Turn off and put away all food and electronic devices, unless you have a *documented* medical need or other need to use such devices for note-taking, during class.
* Come to class on time and stay for the entire class period.
* Refrain from conversing with your fellow students about topics outside the scope of the course.
* Put away any reading materials unrelated to the course.

**Academic Dishonesty**: All students are expected to comply with the Georgia Tech Honor Code (the honor code can be found at <http://www.policylibrary.gatech.edu/student-affairs/code-conduct>). Any evidence of cheating or other violations of the Georgia Tech Honor Code will be submitted directly to the Dean of Students. Cheating includes, but is not limited to:

* Using an unapproved calculator, books, or any form of notes on tests.
* Copying directly from **any** source, including friends, classmates, tutors, internet sources (including Wolfram Alpha), or a solutions manual.
* Allowing another person to copy your work.
* Taking a test or quiz in someone else's name, or having someone else take a test or quiz in your name.
* Asking for a regrade of a paper that has been altered from its original form.
* Using someone else’s clicker to gain attendance points or to take quizzes or tests for them, or asking someone else to use your clicker for any graded or attendance submission.

**Regrading of Papers:** If a problem has been graded in error, you must submit a regrade request to me **in writing,** along with your paper, no more than *one week* after the papers have been returned in class.  Should you wish to have your paper regraded, *do not change or add to the work on your paper*!  If you must write on your returned paper, be sure to write in a different color ink and clearly indicate what you have added.

**Make-Ups:** Quiz and Exam make-ups will be allowed for university-sponsored events, illness, and death in the family. To complete a make-up, written documentation (doctor’s note, obituary, etc.) must be provided to me. All make-ups must be completed in my office. Students must request a make-up to be administered at a time convenient to both myself and the student, and **must not exceed two weeks** from missed assignment.

**Students with Disabilities and/or in need of Special Accommodations**: Georgia Tech complies with the regulations of the Americans with Disabilities Act of 1990 and offers accommodations to students with disabilities. If you are in need of classroom or testing accommodations, please make an appointment with disability services to discuss the appropriate procedures. More information is available on their website, <http://disabilityservices.gatech.edu/>.  Please also make an appointment with me to discuss your accommodation, if necessary.

**Calculators**:  While you may need a scientific calculator for help with some of the homework problems, the use of calculators is **NOT ALLOWED** on in-class assignments or exams.

**Announcements**: I will frequently update the class pages with class information and materials. *You are responsible for obtaining any announcements or materials placed on Canvas* ([canvas.gatech.edu](file:///C:\Users\ahodges32\AppData\Local\Temp\canvas.gatech.edu)).

**Additional Help:** *Asking questions is a key to success!*  Please stop by my office hours whenever you have questions. My goal is to help you succeed!

Free walk-in help is also available Monday-Thursday afternoons in the **Math Lab**, located on the second floor of Clough Commons in room Clough 280. The math lab is staffed by math graduate students and is open at the following times:

* Mondays - Thursdays 12:00pm - 6:00pm in Clough 280

**Important Dates**

**20 January** – First Day of Classes

**3 September** – Labor Day (no class)

**8 and 9 October** – Fall Recess (no class)

**27 October** – Last day to withdraw with a grade of "W"

**21-23 November** – Thanksgiving (no classes)

**3-4 December –** Final instructional days

**–** Final Exam

**Course Content**

As a result of completing this course, students will be able to:

1. Understand functions
2. Students will be able to interpret the slope and y-intercept of a line
3. Graph functions, determine domain and range, and describe increasing, decreasing or constant for each type.
4. Graph transformations
5. Graph quadratic functions by determining vertex and intercepts
6. Relate algebraic solutions to the following types of equations:
   1. Linear
   2. Quadratic
   3. Factorable Polynomial
   4. Rational
   5. Radical
7. Determine symmetry of graphs
8. Compose functions
9. Graph exponential functions
10. Define logarithm
11. Solve linear systems of equations

***Please note***: *items on the syllabus and course schedule are subject to change.  Any changes to the syllabus and/or course schedule will be relayed to the students in class and through canvas.*

**Tentative Course Schedule**

Please use this as an approximate class schedule; section coverage may change depending on the flow of the course.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **8/20**  Syllabus Day | **8/21** | **8/22**  1.1 | **8/23** | **8/24**  1.2 |
| **8/27**  1.4 | **8/28** | **8/29**  1.5 | **8/30** | **8/31**  1.6  Quiz #1 |
| **9/3**  NO SCHOOL | **9/4** | **9/5**  1.7 | **9/6** | **9/7**  Chapter 1 Review  Quiz #2 |
| **9/10**  Review | **9/11** | **9/12**  Test #1 | **9/13** | **9/14**  2.1 |
| **9/17**  2.2 | **9/18** | **9/19**  2.3 | **9/20** | **9/21**  2.4  Quiz #3 |
| **9/24**  2.5 | **9/25** | **9/26**  2.6 | **9/27** | **9/28**  2.7  Quiz #4 |
| **10/1**  2.8 | **10/2** | **10/3**  Review | **10/4** | **10/5**  Test #2 |
| **10/8**  NO SCHOOL | **10/9**  NO SCHOOL | **10/10**  3.1 | **10/11** | **10/12**  3.2 |
| **10/15**  3.3 | **10/16** | **10/17**  3.4 | **10/18** | **10/19**  3.5  Quiz #5 |
| **10/22**  3.6 | **10/23** | **10/24**  3.7 | **10/25** | **10/26**  Review  Quiz #6 |
| **10/29**  Review | **10/30** | **10/31**  Test #3 | **11/1** | **11/2**  4.1 |
| **11/5**  4.2 | **11/6** | **11/7**  4.3 | **11/8** | **11/9**  4.4  Quiz #7 |
| **11/12**  4.5 | **11/13** | **11/14**  Review | **11/15** | **11/16**  Review  Quiz #8 |
| **11/19**  Test #4 | **11/20** | **11/21**  NO SCHOOL | **11/22**  NO SCHOOL | **11/23**  NO SCHOOL |
| **11/26**  5.1 | **11/27** | **11/28**  5.1 | **11/29** | **11/30**  **Review** |
| **12/3**  **Review**  **Last Day of Class** | **12/4**  **Last Day of Class** | **12/5** | **12/6** | **12/7** |
| **12/10**  **-----------------------** | **12/11**  **-----------------------** | **12/12**  **Finals Week** | **12/13**  **-----------------------** | **12/14**  **-----------------------** |