NEW CORE Math Courses
Georgia Tech Fall 2015

Course Descriptions

Math 1550: Introduction to Differential Calculus
3 credits, only for Summer Freshmen, covers the material from Math 1551 plus some precalculus.

Math 1551: Differential Calculus
2 credits, replaces the first 1/2 of Math 1501.

Math 1552: Integral Calculus
4 credits, replaces the last 1/2 of Math 1501 and the first 1/3 of Math 1502.

Math 1553: Introduction to Linear Algebra
2 credits, replaces the last 2/3 of Math 1502.

Math 1554: Linear Algebra
4 credits, similar to Math 1553 with more material and more contact hours.

Math 1564: Linear Algebra with Abstract Vector Spaces
4 credits, a challenging course covering the material from Math 1554 plus abstract vector spaces, suitable for Math, Physics, and CS majors and motivated students.

Math 2551: Multivariable Calculus
4 credits, replaces Math 2401.

Math 2552: Differential Equations
4 credits, replaces Math 2403.

Math 2561: Honors Multivariable Calculus
4 credits, replaces Math 2411.

Math 2562: Honors Differential Equations
4 credits, replaces Math 2413.

Notes:
- Courses separated by a slash are equivalent (only one can be taken for credit)
- Arrows indicate prerequisites

Policies & Recommendations

1. Students are not permitted to take more than 4 credits of core mathematics classes in one semester.
2. It is strongly recommended that students accept credit and placement for their AP courses.
3. Your major advisor will recommend the linear algebra course (1553/1554/1564) best suited for your degree path.
4. Math 1564 is only recommended for students with a 5 on the BC Calculus exam or at least a B in 1552.
5. It is recommended that students take 1550 or 1554 in the summer as opposed to taking 1551+1553 in one semester.
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## Suggested Timelines

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<td>1551 + 1553</td>
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**Placement credit for Math 1551**

- Option 1: Summer Calculus 1550
- Option 2: Summer Lin. Alg. 1551
- Option 3: Not recommended 1551 + 1553

**Placement credit for Math 1551 and 1552**

1554 / 1564 2551

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- Arrows indicate prerequisites

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**More Information**

For more details see the School of Mathematics web site: [http://www.math.gatech.edu](http://www.math.gatech.edu)
or contact the School of Mathematics Undergraduate Advisor: academics@math.gatech.edu

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**Note:** Linear Algebra (1553/1554/1564) can be taken at any time with respect to the basic Calculus sequence (1551 and 1552).