

NEW CORE Math Courses Georgia Tech Fall 2015

Course Descriptions

1550 / 1551
Differential
Calculus

1553 /
1554 / 1564
Linear Algebra

1552
Integral
Calculus

2551 / 2561
Multivariable
Calculus
2552 / 2562
Differential
Equations

Notes:

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

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.

- All 4 credit courses meet 3 times with the instructor and have 2 recitations with a teaching assistant per week.
- All 2 credit courses meet 3 times with the instructor per week (no recitation).

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

		Fresh. Summer	Fresh. Fall	Fresh. Spring	Soph. Summer	Soph. Fall	Soph. Spring
No placement credit	Option 1: Summer Calculus	1550	1552	1554 / 1564		2551	2552
	Option 2: Summer Lin. Alg.		1551	1552	1554	2551	2552
	Option 3: Not recommended		1551 + 1553	1552		2551	2552
Placement credit for Math 1551*			1552	1554 / 1564		2551	2552
Placement credit for Math 1551 and 1552**			1554 / 1564	2551		2552	

* requires a 4 or 5 on the AP Calculus AB exam, a School of Math placement exam, or equivalent.

**requires a 4 or 5 on the AP Calculus BC exam, a School of Math placement exam, or equivalent.

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

More Information

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

