

Math 1552, Sections 9 and 12

Analytic Geometry and Calculus

Textbook: CALCULUS Early Transcendentals, 5th Edition, by James Stewart.

Time and location:

- Section 9: MTWTH, 1:40-2:30 in Lockett 277
- Section 12: MTWTH, 12:40-1:30 in Lockett 239

Instructor: Gestur Olafsson

Office: 322 Lockett

Office Hours: M&W 11:40-12:30 and T&Th 10:40–11:20. You can also contact me by e-mail for other appointments.

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This syllabus, homework problems, test dates, and solutions to tests, quizzes and homeworks will be available at this web-page.

SYLLABUS

- Section 7.1 Integration by Parts;
- Few remarks on Section 7.2 and Section 7.3
- Parts of Section 7.4;
- Section 7.7 Approximate Integration;
- Section 7.8 Improper Integrals;
- Sections 12.1–12.4 Basic facts on vectors and vector spaces, the Dot and Cross Product;
- Sections 12.5 and 12.6 Lines, Planes and Quadratic Surfaces;
- Sections 10.1 and 10.2 Parametric Equations and Their Tangents;
- Sections 10.3 and 10.4 Polar Coordinates and Area Calculations;
- Section 10.5 Conic Sections;

- Sections 11.1–11.10 and 11.12 Infinite Sequences and Series. This is one of the most important material in the class!
- Sections 13.1–13.3 Vector Functions and their derivatives and integrals. Arc Length and Curvature;
- Section 14.3 Partial Derivatives.

GRADING

- There will be **four** tests in class (each 100 points). The tests will take place:
 - Monday, September 20;
 - Wednesday, October 13;
 - Thursday, November 4;
 - Tuesday, November 30.
- There will be quizzes in class or home work **every week**, 8 highest scores will be counted towards to final grade (80 points). **There are no make-up quizzes except you contact me before class.**
- The final exam (200 points) will take place:
 - **Section 9:** Tuesday, Dec. 7, 7:30–9:30 am, in room Lockett 277;
 - **Section 12:** Saturday, Dec. 11, 10:00-NOON, in room Lockett 239.

	Points
Tests	400
Homework/Quizzes	80
Final	200
Total	680

Final Grades

$A > 612$, $B > 544$, $C > 476$ $D \geq 408$. $F < 408$