

Winter 2017 - Math 1D

[Richard Hansen](#), De Anza College, Mathematics

[email](mailto:HansenRichard@fhda.edu): HansenRichard@fhda.edu

## Syllabus/Greensheet: Math 1D, Winter 2017

Math 1D-61, Winter 2017 (01240)

Richard Hansen; S-52B; (408) 864-8577

Calculus (fourth quarter); TTh 6:30-8:45 pm; S-16

email: HansenRichard@fhda.edu

Text: Stewart, Calculus: Early Transcendentals; 7th

web page: <http://www.deanza.edu/faculty/hansen>

Office Hours: Before class -- TTh 5:30 - 6:30 pm or by appointment

**Syllabus:** Partial derivatives, multiple integrals, vector calculus. Prerequisite: Mathematics 1C (with a grade of C or better) or equivalent.

**Equipment:** Graphing calculator (numerical but not symbolic -- see the restriction document on the website).

Week (Monday) Topics (with reference to chapters and sections in Stewart, 7th edition)

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- 1 (1/9) Introduction; 12.6 (quadric surfaces); 14: 1-2 (functions of several variables, limits/continuity)
- 2 (1/16) 14: 3-4 (partial derivatives, tangent planes, differentials, differentiability); Quiz #1
- 3 (1/23) 14: 5 (chain rule); 14: 6 (directional derivative/gradient); Quiz #2
- 4 (1/30) 14: 7-8 (extrema, Lagrange Multipliers); \*Test #1 (2 February)\*
- 5 (2/6) 15: 1-3 (double integrals in rectangular coordinates); Quiz #3
- 6 (2/13) 15: 4-6 (double integrals, applications, surface area); Quiz #4
- 7 (2/20) 15: 7-9 (triple integrals in rectangular, cylindrical, spherical coordinates); \*Test #2 (23 February)\*

- 8 (2/27) 16: 1, 5 (vector fields, curl & divergence); 15.10, 16.6 (Jacobian, arc & surface elements); Quiz #5
- 9 (3/6) 16: 2-3 (line integrals); 16: 6-7 (surface integrals); Quiz #6
- 10(3/13) 16: 4, 8, and 9 (Green's, Stokes's, and Gauss's theorems); 16: 10 (review); Quiz #7
- 11(3/20) \*Test #3 (21 March);\* Review
- 12(3/27) \*\*Final Examination, 30 March, 6:15 to 8:15 pm\*\*

**Course Requirements:** The course will consist of a combination of teacher demonstrations with student participation in discussions, individual, and group work.

1. There will be seven Homework **Quizzes** during the quarter based upon the suggested problems. No make-ups will be given unless arranged in advance. Students should work problems in addition to those suggested. [The lowest quiz score will be dropped to compute the course grade.]

2. There will be three in-class **Tests**. Note the dates; no make-ups will be given unless arranged in advance. [One-half of the score on the final exam, if higher, replaces the lowest test to compute the course grade.]

3. There will be a two-hour **Final Examination** on Thursday, March 30, from 6:15 to 8:15 pm.

Any student missing the final exam will fail the course; no excuses are acceptable.

<b><u>Grading:</u></b>	Quizzes	(6 X possible 25 points each)	150
	Tests	(3 X possible 50 points each)	150
	Final Exam	(1 X possible 100 points)	<u>100</u>
			400 points

Course grades will reflect the following percentage range of total scores:

A = $90 \leq \% \leq 100$ [360-400]	C = $60 \leq \% < 75$ [240-300]	F = below 50% (below 200)
B = $75 \leq \% < 90$ [300-360)	D = $50 \leq \% < 60$ [200-240)	

Grades of B+, B-, and C+ may be used as the distribution of point totals warrants; A- will not be used.

**Attendance:** Regular attendance is expected. A student who misses any class during the first two weeks of the quarter may be dropped from the course. Inform the instructor, in advance, of any necessary absences; telephone and leave a message or email the instructor if an emergency arises. Note that it is the **student's responsibility** to formally "drop" or "withdraw" from the course.

Protect your academic record by observing these deadlines:

22 January to drop with no record

3 February for P/NP option

3 March to drop with a "W"