

Applied Calculus (MATH 10283-055) in Fall 2013

Room WIN 145	Time TuTh 2–3:20 PM
Instructor Loren Spice	E-mail l.spice@tcu.edu
Office TUC 315	Office hours M 6–7:30 PM (shared) TuTh 1–1:50 PM F 9:30–11 AM (shared) and by appointment
TCU Online tcuglobal.edu	

Textbooks

- Lial, Hungerford, and Holcomb, *Mathematics with applications* (3rd custom edition, or 11th edition).
- Rittby, *Preparation for Applied Calculus and Applied Calculus extras* (2nd custom edition).

Attendance Attendance is **required**. You **must** sign the attendance sheet **each class**, or you may be marked absent. Attendance can earn up to 1 bonus point on each exam. See the expanded syllabus on the course web-page.

Grading Course components will be weighted as follows.

Homeworks	Quizzes	Midterms	Finals
15%	10%	15% each (45% total)	30%

You can see your current weighted percentage on the course web-page at any time. If you think that a grade has been mis-computed, you **must** talk to me within 1 week of its being recorded.

Your course grade will be determined as follows.

Min. %	Min. Grade	Min. %	Min. Grade	Min. %	Min. Grade
90%	A-	94%	A		
80%	B-	84%	B	87%	B+
70%	C-	74%	C	77%	C+
60%	D-	64%	D	67%	D+

Exam and course grades may be curved. If you have earned less than 60% of the course credit, then you may receive an F.

Course goals

- Use the language of mathematics to describe real-world phenomena.
- Master the concepts of *derivatives* (rate of change, or slope) and *integrals* (total change, or area).
- Build a calculus toolbox for use in solving both calculation problems and word problems.

We will try to cover most of Chapters 11–12, and some of Chapter 13. Specific topics include the limit definition of the derivative; derivative rules; applications of the derivative; anti-differentiation; and applications of the integral.

See reverse for course details.

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Academic Conduct You must comply with the University's academic-conduct policies at http://www.catalog.tcu.edu/current_year/undergraduate/1411.htm. See the expanded syllabus on the course web-page.

Calculators A graphing, but not a symbolic, calculator is **required** for the class (although it may be **forbidden** for selected problems). See the expanded syllabus on the course web-page for details about permitted calculators.

Homeworks Homeworks will be posted on the course web-page. Homeworks must be handed in to me **in person**. If you are not able to do so, then you may have a friend hand it in, or e-mail me a scanned copy by the due time. If an official absence will interfere with a due date, please let me know **in advance** so that we can make an appropriate adjustment. **Late** homeworks will not be accepted.

You may work with classmates on the homeworks, but you must write up your own work **independently**. Homeworks are due by the **end** of office hours or the **beginning** of class on the class after they are assigned. The lowest homework grade will be dropped.

You should budget about **10 hours** per week for reviewing notes and doing homework. You **cannot** earn better than a C, regardless of exam scores, without satisfactory homework and quiz grades.

Quizzes and exams Quizzes and midterms will be held in class on Thursdays (except that the quiz during Thanksgiving week will be on November 26). The midterms will be on **September 19; October 17; and November 14**.

The lowest quiz grade will be dropped. Missed quizzes **cannot** be made up. In case of an Official Absence, with advance notice, an additional quiz grade may be dropped.

Re-scheduling of exams will be provided **only** in case of an Official Absence; or at my discretion, for extreme, documented reasons. In either case, you must tell me **one week** in advance, or as soon as is reasonably possible.

The final exam will be **Thursday, December 12, 3–5:30 PM**, in a location to be announced. The time is set by the registrar, and **not** subject to change. **Travel plans** are not a sufficient reason to miss a final.

Disability policy This course complies with the University disability statement at <http://www.ugradcouncil.tcu.edu/forms/DisabilitiesStatement.doc>. See the expanded syllabus on the course web-page.

See reverse for course outline.