TCNJ Fall 2014 Draft 09/01/2014
Math 127: Section 10
Calculus A

Lecturer: Dr. Titus Teodorescu
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Office: Science Complex P109
Office hours: after lectures or by appointment

Lectures:
Section 10: TuTh 18:00–19:50, Science Complex P228

Class Website: Course materials are available through Canvas (canvas.tcnj.edu).

Textbook: *Calculus, Early Transcendentals*, 7th edition, by James Stewart. The class key for WebAssign/ebook is tcnj 1232 3397

Course description: Provides students with a solid grounding in single-variable calculus. The course is designed for students in the mathematical and physical sciences. Topics include functions and limits, derivatives and differentiation rules, applications of derivatives, and an introduction to integrals and their applications.

Note: In this class, the deep learning outcomes associated with TCNJs 4th hour are accomplished by a series of rigorous educational assignments that extend beyond the typical scheduled class time. These include additional out-of-class online learning activities through WeBWork, which provides an online academic learning environment for students to do and submit their homework in due time.

Attendance: Attendance is required at all lectures. TCNJ's attendance policy is available at www.tcnj.edu/~recreg/policies/attendance.html.

Grading: Your course grade will be computed using the following weights: exam 1 = 15%, exam 2 = 15%, exam 3 = 15%, final = 35%, online homework = 5%, and quizzes = 15%. Exam and semester grade may be curved.

Exams: Exams 1, 2, and 3 are to be given in the lecture classroom on 9/30, 11/4, and 11/25, respectively. The final exam is a 3-hour comprehensive examination. The date, time, and place of the final exam are to be announced.

Online homework: Online homework will be available at webwork.tcnj.edu. The online homework assignments will be due at noon on the days listed on the next page. The lowest nine online homework scores will be dropped.

Written homework: Written homework will be collected, but will not be graded.

Quizzes: A number of 10-minute quizzes will be given at the end of the class on the days listed on the next page. The lowest three quiz scores will be dropped.

Make-up policy for exams: Make-up exams will be given only for serious reasons (emergency, medical problem, official off-campus visit, etc.). Written documentation is required. Make-up exams cannot be given just to accommodate travel plans. Students that want to arrange a make-up exam should contact the lecturer before the exam. If advanced notice is possible and not given, your lecturer may refuse your request.

Make-up policy for quizzes and online homework: No make-up quizzes will be given. The deadline for online homework may be extended at the discretion of the lecturer for serious reasons.

Calculator policy: Scientific calculators (no graphing calculators, no cell phones) are allowed during quizzes and exams.

Academic Integrity Policy: TCNJ's academic integrity policy is available at `www.tcnj.edu/~academic/policy/integrity.html`.

Americans with Disabilities Act (ADA) Policy: TCNJ's Americans with Disabilities Act (ADA) policy is available at `www.tcnj.edu/~affirm/ada.html`.

Tentative Course Calendar

(The list and the order of topics are tentative and may change at the discretion of the instructor.)

Date	Quizzes	Web-work	Home-work	Lec-ture	Reading	Topics
8/26				1	2.1	tangent line
8/28			H1	2	2.2	limits
9/2	**No class — Alternative Schedule**					
9/4				3	2.3	limit rules
9/9	Q1(L1,L2,L3)	2.1, 2.2, 2.3	H2	4	2.5, 2.6	continuity/ limits to infinity
9/11				5	2.7	derivative as limit
9/16	Q2(L4,L5)	2.5, 2.6, 2.7	H3	6	2.8	derivative as function
9/18				7	3.1	derivative rules
9/23	Q3(L6,L7)	2.8, 3.1	H4	8	3.2	prod/quot rules
9/25	Q4(L8)	3.2		9	3.3	deriv of trig fcns
9/30		3.3			**Exam 1: through 3.3**	
10/2				10	3.4	chain rule
10/7			H5	11	3.5	impl diff/deriv of inv fcns
10/9	Q5(L10,L11)	3.4, 3.5		12	3.6	deriv of log fcns
10/14	**No class — Mid-semester break**					
10/16			H6	13	3.9, 3.10	rated rates/linear approx
10/21				14	4.1, 4.2	min/max values; MVT
10/23	Q6(L12,L13)	3.6, 3.9, 3.10	H7	15	4.3	shape of graph
10/28				16	4.4	L'Hôpital
10/30	Q7(L14, L15, L16)	4.1, 4.2, 4.3, 4.4		17	4.5, 4.7	curve sketch; optimiz
11/4		4.5, 4.7			**Exam 2: through 4.7**	
11/6			H8	18	4.9	antideriv
11/11				19	5.1, 5.2	approx areas/def int
11/13	Q8 (L18,L19)	4.9, 5.1, 5.2	H9	20	5.3	FTC1
11/18				21	5.4	FTC2; indef int
11/20	Q9(L20,L21)	5.3, 5.4	H10	22	5.5	substitution rule
11/25					**Exam 3: through 5.5**	
11/27	**No class — Thanksgiving break**					
12/2	Q10(L22)	5.5		23	6.1	areas between curves
12/4	Q11(L23,L24)	6.1		24	6.1	setting up int
	Final Exam (date, time, and place to be announced)					