No weather cancellations!
"Even if you see an email from
Tom Hellie says the school is closed? Nope.
I'll still be here."

~50 min lecture
~20 min break
~50 min lecture

CALCULUS II
Linfield College
January Term 2018

Instructor: Dr. Stephen Bricher

Office: Taylor 208

Contact Information: Office Phone: 503.883.2260   E-mail: **sbricher@linfield.edu**

Office Time: MTuWThF from 1:00–4:00. I'll be in Taylor 101 unless I tell you otherwise. Occasionally I'll have meetings scheduled during office hours, but I'll keep you posted in class of any changes.

Location: Calculus II, MATH 175, Section 01, meets MTuWThF in Taylor 106 from 9:00–11:30.

Text: No required text.

Calculator: A calculator will *not* be allowed on exams.

Phone: Class time is a *no phone zone.* In fact, do not use any electronic devises during class and exams unless they are approved by me beforehand.

Exams: Exam 1 will cover Topics 1–5. Exam 2 will cover Topics 6–15. The Final Exam will cover Topics 16–18, as well as be comprehensive.

yeah, Topic 19 is NOT on the final, but is useful for vector calc

Suggested Daily Schedule . . .

Jan.		Jan.		Jan.		Jan.	
1	No class	8	Topic 5	15	Topics 9 & 10	22	Topic 16, Exam 2
2	No class	9	Topic 6	16	Topic 11	23	Topic 16
3	Topic 1	10	Topic 7, Exam 1	17	Topic 12	24	Topic 17
4	Topics 2 & 3	11	Topics 7 & 8	18	Topic 13	25	Topic 18
5	Topic 4	12	Topics 8 & 9	19	Topics 14 & 15	26	Topic 19
						29	Review
						30	Final Exam

Grades will be based on homework, two exams and the final, which are counted as follows:

Homework	100 pts.
Two Exams	200 pts.
Final	200 pts.
	500 pts. total

As a guideline, letter grades will correspond to the following percentages:

A–, A	90–100	C–, C, C+	70–80
B–, B, B+	80–90	D, D+	60–70

However, I reserve the right to curve the scale.

"If it's not on the actual study, it's not on the exam."

Homeworks are generally due 2 days later

When turning in homework name, Calc II, Topic# Fold paper

Topics Covered: A continuation of Calculus I to include further techniques of integration, Taylor approximations, sequences and series, parametric equations and polar coordinates, conic sections.

List of Topics

Topic 1:	Integration by parts	Topic 11:	Absolute and conditional convergence; Ratio and root tests
Topic 2:	Integrating trig functions		
Topic 3:	Trig substitutions	Topic 12:	Power series
Topic 4:	Integrating rational functions	Topic 13:	Taylor series
Topic 5:	Improper integrals	Topic 14:	Applications of Taylor series
Topic 6:	Sequences	Topic 15:	Taylor polynomials
Topic 7:	Infinite series	Topic 16:	Parametric equations
Topic 8:	Divergence test, integral test, p-series	Topic 17:	Polar coordinates
Topic 9:	Comparison tests	Topic 18:	Calculus in polar coordinates
Topic 10:	Alternating series	Topic 19:	Conic sections

Some Goals and Objectives:

- To introduce the student to the fundamentals of differential and integral calculus, and its applications in the physical and social sciences.

- To solidify the student's abilities in the use of algebra, trigonometry and calculus.

- To increase the student's problem-solving abilities.

- To increase the student's mathematical maturity.

Advising information: The prerequisite is MATH 170 (Calculus I) or its equivalent. This course is designed for anyone with a desire to learn more calculus:) It is required of majors in mathematics, physics and chemistry. In addition, it is taken by many students interested in computer science, economics and/or business who intend to pursue graduate study.

Academic honesty: Linfield College has a policy regarding academic honesty. You are expected to follow it. The policy can be found in the *Linfield College Course Catalog*. Let me know if you can't find it. I have a zero tolerance regarding violations of the policy. Depending on the specific violation, consequences may range from receiving a non-positive score on the assignment/exam to failing the course.

Students with disabilities are protected by the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. If you are a student with a disability and feel you may require academic accommodations please contact Learning Support Services (LSS), as early as possible to request accommodation for your disability. The timeliness of your request will allow LSS to promptly arrange the details of your support. LSS is located in (503-883-2562) Melrose Hall 020. We also encourage students to communicate with faculty about their accommodations.