Instructor: Dr. Yunrong Zhu   **Office**: PS 328B   **Phone**: 282-3819   E-Mail: zhuyunr@isu.edu

Course Website: MOODLE[1]   **Office Hours:** TWRF 11:00 am - 12:00 pm, or by appointment

Textbook: *Precalculus*, 7th edition, by Cohen, Lee, and Sklar; Brooks/Cole. We will cover most of Chapters 3-5, 7-10, 13.1-13.5, and A.3 of the textbook.

Prerequisites: Math 1108 with a C- or better, or demonstrated equivalent proficiency in Intermediate Algebra is required. Math 1147 assumes the material in Chapters 1 & 2 and Appendices A & B of the textbook; in particular, that you can accurately solve linear, quadratic and other basic equations and inequalities, factor, and correctly manipulate exponents. Review and work additional such problems as needed.

Course Objectives: The primary objective of this course is to prepare the students the basic mathematical concepts, techniques and ideas needed in calculus, and to develop problem-solving skills. We are going to explore the concept of function and its graph (domain, range, composition of functions, inverse functions), and basic transformations of graphs. We will study the basic functions and their properties including polynomial, rational, exponential, logarithmic, and trigonometric functions.

Calculator/Cell phone: Graphing calculator is required and will be allowed on exams. The TI-83 is the departmental standard and is recommended. You are responsible for learning to use your calculator. Students are **NOT allowed to use a device that can text, phone or access the internet** in the classroom since it disrupts the other students in the class. In addition, **any electronic device that has a built-in Internet access, text, phone or Computer Algebra System (CAS) will NOT be allowed.** Using such devices or other form of unauthorized materials during an exam amounts to cheating (see Section Academic Integrity/Dishonesty Policy for more details).

Homework: Homework will be assigned from the textbook every time we meet, and posted on MOODLE. It will be collected once a week **at the end of Friday's class** (except Exams). Show all work and include complete, clear explanations and justifications. Please **staple** your homework together to avoid missing pages. Good daily work habits for this course are essential. An average student is expected to spend **at least 2-3 hours working outside class for every hour spent in class**. **NO later homework** is accepted for any reason, and any missing assignment will be 0. Your three lowest scores will be dropped. This policy is designed to cover times when you are sick, have an emergency, etc.

Quizzes/Group Works: Throughout the semester, one in-class quizzes and one group work will be given per week. The quizzes will be announced on MOODLE, but the group works won't. You must be present in the class to take the quizzes or worksheets, and **NO make-up quiz or group work** will be given for any reason. Your three lowest scores will be dropped. This policy is designed to cover times when you are sick, have an emergency, etc.

Exams: There will be four in-class exams with the tentative schedule as follows:

> **Exam #1**:   **Wednesday Sep. 16**
> **Exam #2**:   **Wednesday Oct. 7**
> **Exam #3**:   **Wednesday Oct. 28**
> **Exam #4**:   **Wednesday Nov. 18**

A **Cumulative Final Exam** will be on **Monday, Dec. 14, 10:00am - 12:00pm, Room: PS 303**. You must take the final exam at the scheduled time. You may use one $3'' \times 5''$ handwritten notecard (front and back) for the final exam.

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[1]Check MOODLE daily for important information on this class (syllabus, homework/quiz/exam announcements, policies, etc).

Makeup Exams: Students who have a valid documented reason, such as an unavoidable emergency, illness, or university commitments during regular examination times are permitted to schedule a makeup examination with no penalty. In such case, you must contact me or has somebody else contact me **before the exam** if possible, but **no later than the next class meeting**. To take the makeup exam, you must present the documentation, **with detailed description of the problem** for the emergency. Any missed exam will be 0.

Grading: Students course grade will be based EXCLUSIVELY on HW, quizzes/group works, four in-class midterm exams, and the final exam. There will be **NO "extra credit" work**. The weights are distributed as follows:

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15% HW+ 15% Quizzes + 40% Exams + 30% Final.

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You need a **C- or above** to use Math 147 as a prerequisite in another math class. Final course grades scale is:

A+	93% and above	C	73%–76%
A-	90%–92%	C-	70%–72%
B+	87%–89%	D+	67%–69%
B	83%–86%	D	63%–66%
B-	80%–82%	D-	60%–62%
C+	77%–79%	F	59% and below

Academic Integrity/Dishonesty Policy: Academic integrity is expected of all individuals in academe. Academic dishonesty in any form is unacceptable. Familiarize yourself with the ISU Academic Integrity and Dishonesty Policy for Undergraduate Students.

Extra Help: Do not hesitate to come to my office during office hours or by appointment to discuss homework problems or any aspects of the course. Free tutoring is available from the Math Center in the Student Success Center, Rendezvous 327 in Pocatello and CHE Room 220 in Idaho Falls. Information is available at `http://www.isu.edu/success/math/index.shtml`.

ADA Policy: Idaho State University is committed to providing equal opportunity in education for all students. If you have a diagnosed disability or if you believe you have a disability (physical, learning, hearing, vision, psychiatric) that might require reasonable accommodation in this course, please contact the Disability Services Center, Rendezvous Building, Room 125 (282-3599) `http://www.isu.edu/disabilityservices`.

Proactive Advising Policy: We want you to succeed. Attending class, for the entire class period, is one of the habits of a successful student. Therefore, your attendance is expected. **This class will have assigned seating and attendance will be taken at a random time during each class.** If you are not present at the time attendance is taken, you will be considered absent. **After three unexcused absences, your name may be submitted to the Student Success Center for proactive advising.** You may also be referred for proactive advising if your grade in the course falls below a C. A student who earns a failing grade via course work (exams, homework, etc.) and has unexcused absences that total more than 30% of class meetings will receive a grade of "X".