Math 111B: PreCalculus I - Functions (Part II)

Winter 2024 – Section 101

**CRN:** 60900

**Credit hours**: 2

**Instructor:**...., email: ....

**Office:** ...., telephone: ....

**Office hours:** ....

**Time and place:** ....

**Canvas:** ....

**Textbook**: “*PreCalculus*” by Stitz and Zeager, available for free at

<https://stitz-zeager.com/szprecalculus07042013.pdf>

**Prerequisite**: Math 111A or consent of instructor.

**Course description:** This course is the second part of a two course sequence. Topics include equations and inequalities in one variable, a careful treatment of the function concept, and an examination of the properties and application of several important families of functions: polynomial, rational, exponential, and logarithmic. Any requirement satisfied by Math 111Z will also be satisfied by the pair of courses Math 111A and Math 111B.

**Learning Outcomes**: At the end of this course, students will be able to:

1. Find real and complex roots of simple polynomials.
2. Graph simple rational functions and determine some basic features such as domain, *x,y*intercepts, and asymptotes.
3. Solve equations and inequalities involving rational functions.
4. Compute composite and inverse functions.
5. Graphing and solving equations involving exponential and logarithmic functions.

**Grading components**:

Homework:

Quizzes:

Class participation:

Midterm:

Final exam:

**Means of assessment**:

* **Homework**:
* **Quizzes**:
* **Class participation**:
* **Midterm Exam:**
* **Final exam:**

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**Grade lines:** the course grade lines will not be harder than the standard grade lines: A 10093%, A- 92.99-90%, B+ 89.99-87%, B 86.99-83%, B- 82.99-80%, C+ 79.99 - 77%, C 76.99-73%, C- 72.99-70%, D+ 69.99-67%, D 66.99-63%, D- 62.99 - 60% and F *<* 60%.

**Other Learning Resources:**

* The Learning Center at Loso Hall 234 offers free tutoring service, both physical and virtual. Visit <https://www.eou.edu/lcenter/> for appointment.
* The Writing Center at Loso Hall 234 provides a place, both physical and virtual, where every EOU writer can find an interested, responsive reader. Go to eou.mywconline.com/ to schedule an appointment with the Writing Center.
* EOU’s Library has many good books and ebooks to check out: [https://library.eou. edu/](https://library.eou.edu/)

**Academic Misconduct Policy:**

Eastern Oregon University places a high value upon the integrity of its student scholars. Any student found responsible for an act of academic misconduct (including but not limited to cheating, unauthorized collaboration, fabrication, facilitation, plagiarism or tampering) may be subject to having his or her grade reduced in the course in question, being placed on probation or suspended from the University, or a combination of these.

**Students with Disabilities policy:**

Any student who feels he or she may need an accommodation for any type of disability must contact the Disability Services Office in Loso Hall, Room 234. Phone 541-962-3081.

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