

**Mth 241 – Winter Term 2019**  
Calculus for the Biological, Management, and Social Sciences

Instructor: Rob Lewis

*Albany Campus: (CRN 30150)*

Class: WOH-112, Tue and Thu, 1 to 2:50 pm

Office Hours:, WOH-130, Tue and Thu, 11 to 12:50 pm

Phone: 541-917-4759

*Corvallis Campus (Benton Center): (CRN 30326)*

Class: BC-234, Mon and Wed, 10:30 to 12:20 pm

Office Hours: BC-101, Mon and Wed, 9:00 - 10:20 am

Phone: 541-757-8944, x5113

Email: [rob.lewis@linnbenton.edu](mailto:rob.lewis@linnbenton.edu)

**Course:** An introduction to differential and integral calculus as applied to economics with some applications to social sciences, and life sciences. The course presents a conceptual development of calculus applied to polynomial, exponential, and logarithmic functions and extrema theory.

**Prerequisite:** Mth 111 – College Algebra, or an equivalent course.

**Course Management System:** MyOpenMath.com (MOM) – *Free!*

*Ask instructor for “course id” and “enrollment” key.*

**Text:** *Business Calculus* by Calaway, Hoffman, Lippman (*Open Resource – free!*)

**Outcomes:**

1. Identify average and instantaneous rates of change in business and biology applications.
2. Connect graphical, numerical, and symbolic interpretations of the difference quotient and the derivative.
3. Apply differential calculus techniques to describe the behavior of business/biological functions.
4. Apply techniques of integral calculus to determine net changes in business and biological applications such as marginal analysis, velocity, and growth.

**Grading**

10% Class Prep

15% ICA

15% Homework

10 and 20% Two Midterms

30% Final Exam

A = 90%+, B = 80% to 89%, C = 70% to 79%, D = 60% to 69%, F = less than 60%

**No grades other than A through F will be issued. No “Y” grades will be issued.**

**Incompletes:** Incomplete grades are issued at the instructor's discretion. An incomplete may be issued under unusual and verifiable circumstances. The student who is to receive an incomplete grade should be maintaining satisfactory progress in the class and should be attending class regularly. This student should have completed the majority of the work with some component, due to the aforementioned circumstances, remaining to be completed.

**Exams:** There will be two “mid-terms” and a comprehensive final exam. The final exam percentage score replaces lowest “mid-term” grade up to 70%.

- It is your responsibility to know the exam schedule and be present on time on exam days. If you miss an exam you will receive a “0”. That grade may be changed by your final exam grade as mentioned above. There are no retests or make-ups. Exceptions to this policy may be made for extremely unusual circumstances. You should contact me prior to the exam period in such cases.

**ICAs:** In-Class Activities are started and often ended in class (but not always). They are group structured activities that help you understand the material by doing rather than always by listening. ICAs are due the next class period. Your ICA score is based on both completion and correctness. Late ICAs reduce score by 50%.

**Class Preps and Homework:** **Class Preps and Homework** are assigned, completed, and graded on MyOpenMath. Class Prep assignments prepare you *before* class and homework further develops your understanding *after* class.

### **Request for Special Needs or Accommodations**

Direct questions about or requests for special needs or accommodations to the LBCC Disability Coordinator, RCH-105, 6500 Pacific Blvd. SW, Albany, Oregon 97321, Phone 541-917-4789 or via Oregon Telecommunications Relay TTD at 1-800-735-2900 or 1-800-735-1232. Make sign language interpreting or real-time transcribing requests 2-4 weeks in advance. Make all other requests at least 72 hours prior to the event. LBCC will make every effort to honor requests. LBCC is an equal opportunity educator and employer.

### **LBCC Comprehensive Statement of Nondiscrimination**

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender, gender identity, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. For further information see Board Policy P1015 in our [Board Policies and Administrative Rules](#). Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425; Lynne Cox, T-107B, 541-917-4806, LBCC, Albany, Oregon. To report: [linnbenton-advocate.symplicity.com/public\\_report](http://linnbenton-advocate.symplicity.com/public_report)