

# Math 140: Calculus for Life Scientists

Fall 2018, 4 credits, MWF 2:10 – 3:00 pm, Abelson 201

## Instructor

Professor Elissa Schwartz

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## Teaching Assistants

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Location: TBA

Course website, on Blackboard: Go to <http://learn.wsu.edu>, log in with your WSU Network ID and password, and select this course. Any changes or announcements will appear on the course website. Check the website regularly for updates.

## Textbook

Calculus for the Life Sciences by Greenwell, Ritchey, and Lial (Custom edition available from the bookstore).

## Course Objectives and Learning Outcomes

- To gain a conceptual understanding of the mathematical tools used to describe change
- To learn to differentiate and integrate functions

## Grading

- Assignments (lowest 2 scores will be dropped if all were completed) (15%)
- Midterms (2): in class (25% each)
- Final exam (cumulative): Thurs., Dec. 13, 2018, 7-10 am (35%)

A	92.5 - 100
A-	89.5 - 92.4
B+	86.5 - 89.4
B	82.5 - 86.4
B-	79.5 - 82.4

C+	76.5 - 79.4
C	72.5 - 76.4
C-	69.5 - 72.4
D+	66.5 - 69.4
D	59.5 - 66.4
F	≤ 59.4

### Policies

- Please check course webpage periodically for changes, announcements, and assignments.
- Please write your name, Math 140, your section number, and the assignment number on each assignment, and show all work.
- Make-up exams will not be given. If a test is missed for a valid reason, the grading scheme will be adjusted to reflect the situation.
- The use of calculators or other electronic devices capable of graphing or symbolic manipulation is not permitted during exams.

### Course Outline *\*subject to change*

8/20	Week 1	Review - Functions (Chapter F, ELTF)
8/27	Week 2	Limits and Continuity (Chapters ELTF, TD)
9/3	Week 3	Derivatives (Chapter TD) *No class Mon 9/3
9/10	Week 4	Differentiation Techniques I (Chapter CD)
9/17	Week 5	Diff Tech II (Chapter CD) *No class Wed 9/19
9/24	Week 6	Differentiation Techniques III (Chapter CD)
10/1	Week 7	Graphing (Chapter GD)
10/8	Week 8	Optimization (Chapter AD)
10/15	Week 9	Applications (Chapter AD)
10/22	Week 10	Antiderivatives (Chapter I)
10/29	Week 11	Integration (Chapter I)
11/5	Week 12	Integration Techniques (Chapter FTAI)
11/12	Week 13	Multivar Calc (Chapter MC) *No class Mon 11/12
11/19		Fall Break
11/26	Week 14	Differential Equations (Chapter DE)
12/3	Week 15	Review
12/13	Final Exam	7-10 am

### Math Learning Center

Successful students make use of available resources, so don't struggle when help is just a few steps away. Free tutoring is available in the Math Learning Center (Cleveland 130) and the computing lab, Thompson Hall (Room 1). Tutoring begins August 20. See <http://www.math.wsu.edu/studyhalls/welcome.php>

### Academic Integrity

Please note that the university's policy on academic honesty will be taken extremely seriously in all your work. Any form of dishonesty in an assignment will lead to a zero on an assignment or exam and you may receive a grade of F for the course as well. Students who violate WSU's Academic Integrity Policy (identified in Washington Administrative Code (WAC) 504-26-010(3) and -404)

will not have the option to withdraw from the course pending an appeal. If needed, Student Conduct will be contacted and additional disciplinary action may be taken by the University. Visit the following site for more information regarding what constitutes academic dishonesty and the WSU procedures for handling cases of academic dishonesty:

<http://www.conduct.wsu.edu/academic-integrity-policies-and-resources>

### WSU Safety Measures and Emergency Notification

Classroom and campus safety are of paramount importance at Washington State University, and are the shared responsibility of the entire campus population. WSU urges students to follow the “Alert, Assess, Act,” protocol for all types of emergencies and the [“Run, Hide, Fight”](#) response for an active shooter incident. Remain ALERT (through direct observation or emergency notification), ASSESS your specific situation, and ACT in the most appropriate way to assure your own safety (and the safety of others if you are able). Please sign up for emergency alerts on your account at MyWSU. For more information on this subject, campus safety, and related topics, please view the FBI’s [Run, Hide, Fight video](#) and visit the [WSU safety portal](#).

### Students with Disabilities

Reasonable accommodations are available for students with documented disabilities or chronic medical conditions. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center at Washington Building 217; Phone: 509-335-3417 to schedule an appointment with an Access Advisor. All accommodations MUST be approved through the Access Center. For more information contact a Disability Specialist on your home campus. **Pullman or WSU Online:** 509-335-3417  
<http://accesscenter.wsu.edu>, [Access.Center@wsu.edu](mailto:Access.Center@wsu.edu)

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### Assignment #1 - Due Wed. Aug. 29

F-Sec.1: 3, 11, 29, 35

F-Sec.3: 31, 65

F-Sec.4: 47, 48

F-Sec.5: 21, 26