

MATH 151: SYLLABUS

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| Instructor: | Barbara Harras |
| Office: | 18-212E |
| Office Hours: | 9:00 am – 11:30 am – M, T, R, F |
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| Text: | CALCULUS, 2nd Edition, by Briggs, Cochran and Gillett |

Course Description:

This is the first quarter of a three-quarter online sequence in one variable Calculus and Analytic Geometry. The course will start with a brief review of the theory of functions. The course will then develop and study the idea of limits. This will include a graphical definition, the computation of limits, a precise definition of the limit complete with proofs of limits, followed by a study of continuity. The course will then delve into one of the main ideas of Calculus I, namely, derivatives. The major part of the first quarter of Calculus will be a study of Differentiation. This will include rules of differentiation such as the power rule, the product rule, the quotient rule, and the chain rule. Implicit differentiation will also be covered. This will be followed by a study of the derivatives of trigonometric functions. After studying the concept and rules of differentiation, applications of derivatives will be covered including maxima and minima, using derivatives when graphing functions, and applying derivatives to optimization problems. The course will also introduce the Mean Value Theorem, L'Hospital's Rule, Newton's Method, and Antiderivatives. The last topic in Calculus I is an introduction to Integration. The course will develop the idea of integration by approximating areas under curves, present the Fundamental Theorem of Calculus, and introduce the Substitution Rule for Integration.

Computer Requirements:

It is necessary for the student to have regular access to a computer with an internet connection that runs Internet Explorer or Firefox or Chrome. If assignments or work is to be submitted electronically, it is necessary to have access to a high-quality scanner. Make sure to install browser check on the top of the log-in page for this course in MyMathLab to make sure that you are able to access all of the tools in this course.

Coursework:

This is a web-based course. Most work will be completed on a computer and submitted electronically (online homework, online quizzes, and online tests through MyMathLab). In addition to the online homework, online quizzes, and online tests, students will be expected to participate in online discussions, complete 5 written homework assignments, write up one project, and take two proctored exams (Chapter 3 Exam and a Final Exam).

Time Requirement:

Most students will need to spend a minimum of 15 hours per week working on this class in order to be successful. Note: This is NOT a self-paced class. There are deadlines for all of the work done in this course.

Statement about Internet-Based Courses:

The course starts the very first day of the quarter. All students are expected to have purchased the textbook and MyMathLab access code by this date and to be prepared to participate in the course material. If you do not have the text or access code by the first day of the quarter, you may still register in our course at:

www.pearsonmylabandmastering.com

and have access to our course for FREE for two weeks. There is an e-text located at the website for our course. Near the end of two weeks, however, you must purchase an access code or you will lose all your online work. With the purchase of the access code, you may continue to use the e-text or purchase a hard-copy of the text.

Chapters:

The coursework is broken up into five chapters, namely **Chapters 1, 2, 3, 4, & 5**. The work for each chapter consists of:

- Chapter Reading
- Online Homework Assignments (via MyMathLab)
- Written Homework Assignment
- Online Quizzes and Online Test (via MyMathLab) (except for Chapter 3)

In addition, Chapter 3 will have a proctored, written exam at a Testing Center. (It will not be online.) This test could be taken at the Testing Center at SFCC or SCC or the Math Learning Center at SFCC or any other Testing Center at one of the satellite campuses.

Online Homework Assignments:

There will be **twelve online homework assignments** to be completed through MyMathLab. Each of these assignments will be worth 25 points. The due date for each assignment is on the calendar as well as under the Homework tab at our website.

You will be doing homework online on MyMathLab located at www.pearsonmylabandmastering.com. This is an online program used by the publisher of our text. If you bought your text new, it may or may not have come bundled with a MyMathLab access code. If your textbook did not come with the MyMathLab bundle, you can purchase an access code online at the above website. The course ID that you will need to set up your account in MyMathLab is:

Harras58183.

The first two weeks of the class MyMathLab can freely be used – after that, you need to purchase an access code.

More information about MyMathLab can be found at the above website support page. If you have problems using MyMathLab, make sure to contact MyMathLab for help. Their student support number is: 1-800-677-6337. There is also a Quick Start Guide for Students at the above website.

Written Homework Assignments:

There will be **five written assignments** during the quarter. Each assignment will cover one of the chapters that we are studying. These assignments have specific due dates and are worth 30 points each. (See the *Assignments* tab in our website!)

Online Quizzes:

There are **one or two online quizzes in each of the five chapters**. These quizzes generally cover several sections of each chapter and they are worth 50 points each. (See the *Quizzes & Tests* tab in our website!)

Discussions:

This is where you will find discussion boards for the Chapters as well as a forum to *Ask your Instructor* questions and one to *Chat* with fellow students.

You will find five links, one for each of the chapters, in the Discussion Boards. This is where you can communicate with your classmates about ideas and questions you may have on the topics from the course. This is strictly for your own use. There are no points for the Discussion Board in this class. The Discussion Board is a place that allows students to ask questions of the instructor or other students about the course's material, but **NOT about problems in the quizzes or the online tests**. Those questions should be sent directly to the instructor in an e-mail. On the other hand, this is a great place for students to share questions and ideas with fellow students as well as the instructor.

Extra Credit Project:

There will be one project in the course offered for extra credit. The project can be found by selecting the *Project* tab in our website. Instructions for the project are provided where you find the project statement and questions. A grading rubric is also provided for the project. Students are expected to work on their own on the project and get no outside resources to help them (internet, tutors, instructors, classmates, etc...). Questions about the project can be posted in the discussion forum. Students should not post direct answers to project questions in the discussion forum.

Exams:

There will be five exams (**four chapter exams and a comprehensive Final**), each to be taken by the specified due date. The Chapter 3 exam and the Final Exam are to be taken at a proctored Testing Center. (These two exams will pencil/paper exams.) If you are living in Spokane while taking the course, you will take the exam at the SFCC or SCC Testing Centers or in the Math Learning Center at SFCC. If you are taking the course outside of Spokane, you will need to make arrangements at a Testing Center near you.

Final Grade:

All graded coursework has a total 1400 points to be earned. The points to be earned are broken down as follows:

| Assignment | Points | Quantity | Points |
|-------------------------------------|--------|----------|--------|
| Written Assignments | 30 | 5 | 150 |
| Online Assignments | 25 | 12 | 300 |
| Online Quizzes - Chpts 1,2,3,4,5 | 50 | 7 | 350 |
| Chapter Exams | 100 | 4 | 400 |
| Final Exam | 200 | 1 | 200 |
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Total Points Possible: 1400

In addition, there are a total of 40 extra credit points:

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|--------------------------|----|
| Initial E-mail: | 5 |
| Bio: | 5 |
| Final Exam Proctor Info: | 5 |
| Project: | 25 |

Your final grade will be calculated out of 1400 points.

Grade Scale:

Grade Scale: Your grade will be calculated as follows:

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|-----|-----|
| 93+ | |
| 4.0 | 4.0 |
| 92 | 3.9 |
| 91 | 3.8 |
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Dividing the points you have by the points possible will determine your percentage. Using your percentage, your grade point for the class can be determined using the scale to the left. A "Z" grade will only be given on an individual basis and in extenuating circumstances; it will not be given as an alternative to a 0.0, if you did not meet the prerequisites for the course, or failure to withdraw by the specified date. A "Z" if issued, it will never be changed back to a decimal grade and must be requested before the end of the quarter.

In general, if your overall percentage in the class is x%, then your decimal grade is determined by:

If $x \geq 93\%$, your grade is 4.0.

If $x < 63\%$, your grade is 0.0.

Otherwise, your decimal grade is determined by: $(x-53)/10$.

In order to pass the course with a 2.0 or better you must average a 73% of the total points for the exams and have earned 73% of the total points for the course.

Makeup exams:

No makeup exams will be given, with the exception of cases of an extreme (documental) emergency that are approved by your instructor. The excuse must be discussed with your instructor **before** the scheduled end date of the exam. If you know that you cannot take an exam on its last scheduled day, plan ahead to take it early.

Late work:

No work will be accepted late due to technical difficulties. You will need to plan ahead to turn in assignments before the due dates with enough time to fix any technical problems you may face. Your instructor may accept work late in cases of an extreme emergency.

Attendance Policy:

A successful student will log in to check for announcements at least once per a day and be active in the course throughout the quarter.

Grade of Incomplete:

In general, the Incomplete grade is generally not an option for this course. However, a student could be eligible for an incomplete if he/she is suffering from a serious illness during the quarter or have an extreme (and documental) emergency during the quarter. Also, the student must be in good standing (passing with a "2.0" or better) and be up to date at the time of withdrawal deadline.

Withdrawal dates:

The last day to withdraw with a refund (and no grade recorded) is October 9, 2017.

The last day to withdraw (with a grade of "W") is November 13, 2017.

ADA Compliance:

Community Colleges of Spokane is committed to providing accommodations for qualified individuals with disabilities in a timely and effective manner. To request a reasonable accommodation, students must be registered with the campus Disabled Student Services (DSS) office. Accommodations will be made based on eligibility determined by Disabled Student Services. Services can be requested at any time during the semester. Requesting services well in advance will help to ensure that resources are available when needed.

Caveats:

- Every attempt will be made to follow the above procedures and the given schedule, but they may be changed in the event of extenuating circumstances.
- The instructor reserves the right to make changes to the syllabus and will notify students of those changes in class.

NOTICE TO STUDENTS: USING COPYRIGHTED MATERIALS

Most of the instructional materials you will use in this course are copyright protected. Unless you buy the materials, you cannot download or copy them without the written permission of the publisher of the materials. That includes websites you visit when completing assigned course work. Websites usually contain copyright protected material. Your visit to a website cannot include unauthorized downloading or copying, or attempts to bypass any security on the site or any payment system on the site. Please understand that there are serious penalties for the unauthorized copying or downloading of copyright protected materials. If you aren't sure whether you can copy or download materials, please ask your local librarian.