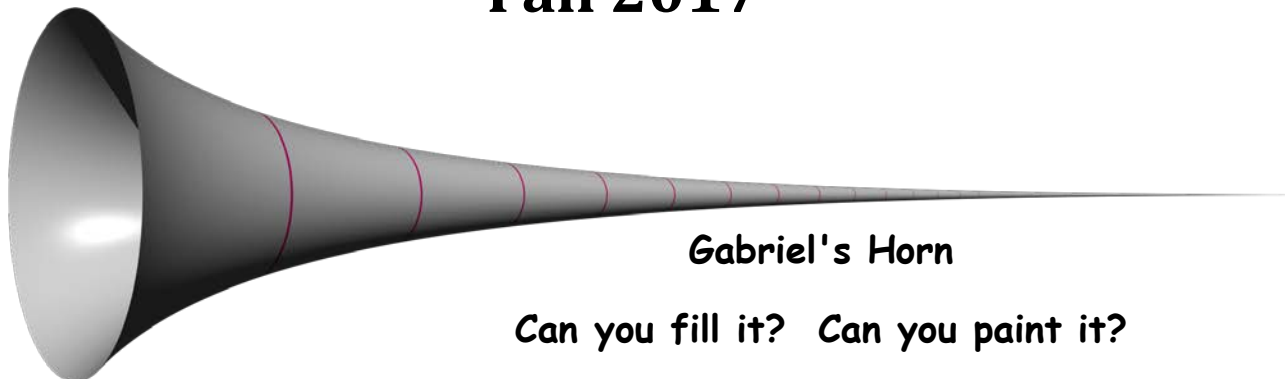
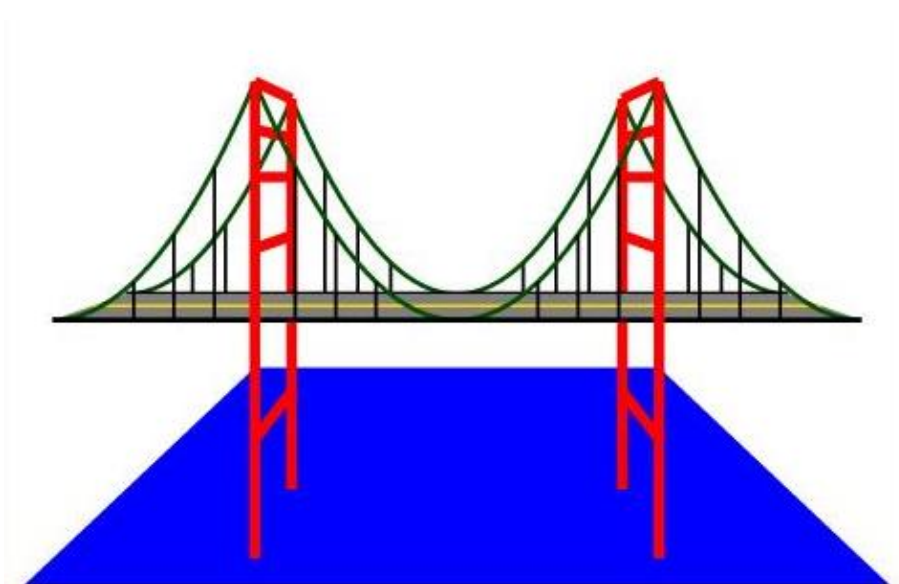


**WELCOME TO MATH& 152
CALCULUS II
Fall 2017**



Gabriel's Horn

Can you fill it? Can you paint it?



How long is the cable?

INSTRUCTOR: LAURA MOORE-MUELLER

Math& 152 (5 credits)

Daily: 8:00 – 8:50 AM Cedar Hall 202

Section: A - Item #6847

How to contact me:

Instructor: Laura Moore-Mueller (Laura or Ms. Moore-Mueller)

Office: CH 301-11

Email: Lmooremueller@greenriver.edu

Phone: (253) 833-9111 ext.4444

Web Site: <http://www.instruction.greenriver.edu/lmmueller>

Fax: (253)-288 – 3464

Office Hours: Daily 10:00 - 10:50, when my door is open OR by appointment

Mailbox: To submit late assignments, please have my name on the top of the page, time stamp it and drop it in the slot at the secretary station on the third floor of Cedar Hall just to the left at the top of the stairs..

TEXT: *Calculus: Concepts & Contexts, 4th edition* by James Stewart. This textbook is used in Math& 151,152,153 and 254.



TECHNOLOGY: A graphing calculator is **required** for this course. I will demonstrate with a TI-84+. We will also be using the computer algebra software (CAS), **Maple**.

MapleSoft



A computer with internet service will be necessary for your grade, some activities and online homework assignments.

SIGN-UP FOR HOMEWORK: **WebAssign** is the online resource used for homework problems. You will need to purchase an access code unless you have one already. All registered students will be expected to register for **WebAssign** by the end of the second day of class.

Purchase options (if you have not already purchased the textbook and access):

- **Purchase a textbook that is bundled with an access code card, and enter the code after logging into WebAssign.** Important! Before opening the access code, ensure that you purchased the correct textbook by **checking that the prefix** for your access card matches the textbook.
- **Purchase an access code card separately at your bookstore, and enter the code after logging into WebAssign.** For this option, before going to the bookstore, **find the matching prefix** for your textbook title to ensure that you purchase the correct access code card.
- **Purchase an access code online after logging into your WebAssign account.** This method is the easiest because WebAssign automatically provides a correct code for each course. A credit card or PayPal account is needed for this option.

WebAssign Website: <http://www.webassign.net>
To Register: Click on **ENTER CLASS KEY (at top of page)**
WebAssign CLASS KEY: greenriver 5389 6681

SIGN-UP FOR HANDOUTS, GRADES AND ACTIVITIES:

WAMAP Website: <http://wamap.org>
WAMAP Course ID: 14822
WAMAP Enrollment Key: calc_2

COURSE DESCRIPTION:

Math& 152 is the introduction and study of integral calculus begun with Newton and Leibniz. It is the second of the four calculus courses we offer. We will see how limits play an important role in integrals, integrals relate to derivatives and summing up infinitely little bits leads to amazing applications.

COURSE PRE-REQUISITES: Math& 151 (formerly Math 124) with 2.0 or better, or instructor's permission.

LEARNING OBJECTIVES: Students will demonstrate the ability to:

1. Interpret and communicate effectively in both oral and written form.
2. Work cooperatively in groups: respect others' ways of thinking, have confidence in their own knowledge, share information, pool knowledge, and listen effectively;
3. Develop problem solving skills: recognize the applicability of previously learned solutions to new problems, recognize and apply reverse reasoning (given the answer, what is the question), and develop an individual problem-solving strategy;
4. Recognize that problems may have alternative solutions and that alternative techniques may be used to arrive at those solutions;
5. Understand when the use of a calculator is appropriate and when it's use may lead to misconceptions;
6. Find the antiderivatives of algebraic, exponential, and trigonometric functions;
7. Use Riemann sums to find areas;
8. Know and apply the Fundamental Theorem of Calculus;
9. Determine antiderivatives using a variety of techniques including substitution, tables, integration by parts and partial fractions;
10. Approximate definite integrals using numerical techniques such as the trapezoid rule, Simpson's method, and calculator/computer programs;
11. Apply integration techniques to solve problems involving areas, volumes, arc length, centroids, and differential equations.

Students will demonstrate these objectives through class discussion; activities, labs, homework and tests.

CAMPUS-WIDE OUTCOMES:

GRC has identified ability areas that we believe encompass knowledge and are the most important skills, behaviors, attitudes, and values that students need in order to be successful during and after college. For a complete description of all of these outcomes, refer to the college catalogue. Among these ability areas, this class will address Responsibility, Quantitative/Symbolic Reasoning, Critical Thinking, and Written and Oral Communications. You will be assessed on these outcomes through classroom participation, homework, tests, labs and activities.

EXPECTATIONS:

I expect you to participate fully in the class and in your own learning. This means being in class, on time, and completing all assignments. Collaborative learning in all its forms (group activities, study groups, etc.) is expected.

Late (anytime after it is collected or due) assignments will be handled as follows:

- If the assignment is received by 2 PM of the day it is due you will receive 80% of the final score.
- If the assignment is received by 2 PM of the following day, you will receive 50% of the final score.
- After 2 PM of the day following the due date, any assignments will be corrected but will receive a score of zero.

ASSESSMENT: Points will be assigned as follows:

Points	Work
0	No attempt or no correct ideas
1	Answer with no supporting work, or attempt with a correct idea
2	Some correct ideas
3	Half correct ideas
3.5	Concept is correct with errors in work
4	Mostly correct ideas (small mistake that is not conceptual)
5	Perfection (correct answer with correct work)

Grades will be weighted as follows:

Homework	5%
Activities/Labs	25%
Tests	45%
Final Exam	25%

Homework:

Homework problems ensure that your skill level is sufficient to excel at the next level of mathematics. I encourage you to ask questions about homework problems any time before the due date. You may use the forum on WAMAP to communicate to other students.

Besides doing all of the homework, you have the opportunity to increase your homework grade in several ways: I will be monitoring the homework forum on WAMAP. If you help other students with suggestions for solving homework questions you will earn points that will go towards your homework grade. These points will take the place of (or, in some cases, act as extra credit for) a homework problem that you might have missed.

If you receive at least 85% on a homework assignment, the score in WAMAP will be recorded as 100%. I will be entering the homework scores just before a test.

Activities/Labs:

Periodically in class you will be working on exploratory labs (about 3 this quarter) or other activities. This work will be a group effort and will usually be turned in on the day you do the activity. There will be other activities as well so find a good group with whom to work!

Tests:

Your tests are in class. If an emergency occurs and you are unable to take a test, you must call or e-mail me by 7:00 AM the day of the test. In the case of an extreme emergency, you will be allowed to make-up one test for the quarter.

Final Exam:

Your final exam will be comprehensive. It will be given in our classroom on December 14, from 8:00 – 10:00 AM.

DECIMAL GRADING:

Numerical grades will be assigned based on your overall percentage earned in the class (according to the afore mentioned weighting). You will be able to check your grades on **WAMAP**. Directions for signing into WAMAP will be handed out the first week of class.

% earned	Grade	%	Gr.	%	Gr.	%	Gr.	%	Gr.	%	Gr.
96 – 100%	4.0	89%	3.4	83%	2.8	77%	2.2	71%	1.6	65%	1.0
94 – 95%	3.9	88%	3.3	82%	2.7	76%	2.1	70%	1.5		
93%	3.8	87%	3.2	81%	2.6	75%	2.0	69%	1.4		
92%	3.7	86%	3.1	80%	2.5	74%	2.0	68%	1.3		
91%	3.6	85%	3.0	79%	2.4	73%	1.8	67%	1.2		
90%	3.5	84%	2.9	78%	2.3	72%	1.7	66%	1.1		

64% AND BELOW: 0.0

If you are taking this class as a prerequisite, you must receive a 2.0 or above to go on to Math& 153. If you wish to take this class Pass / Fail or to withdraw from the course, you must fill out a form with the registrar by November 17.

OPERATING RULES:

- **Rule #1: Respect your classmates and instructor.**
All the following rules are based on this one!
- All cell phones, beepers, MP 3 players, laptops and other distractions or noise makers will be turned off during class. *You should know that GRC policy officially prohibits the answering of pagers and cellular phones during class periods.* This includes text-messaging. Although your instructor understands that emergencies may occasionally arise when sick family members or other crises are concerned, a repeated pattern of classroom interruption by electronic gadgets will be considered grounds for discipline.
- Any disruptive behavior will not be tolerated as this detracts from the learning environment; this includes arriving late to class. Please do not enter the classroom after 8 AM.
- You have a responsibility to learn the material and I have a responsibility to teach the material. To make this happen your attendance and participation in class is mandatory.
- No cheating or plagiarism will be tolerated. Consequences range from receiving 0.0 on the assignment to receiving 0.0 for the class. In other words, academic honesty is expected.

Repeated violations of any of these rules may lead to disciplinary actions per student code of conduct.

SPECIAL NEEDS:

If you believe you qualify for course adaptations or special accommodations under the Americans With Disabilities Act, it is your responsibility to contact the Disability Support Services Coordinator in the LSC and provide the appropriate documentation. If you have already documented a disability or other condition through the GRC Disability Support Services Office, which would qualify you for special accommodations, or if you have emergency medical information or special needs I should know about, please notify me during the first week of class. You can reach me by phone at 253-833-9111, extension 4444. Or, you can schedule an office appointment to meet me in Cedar Hall, office number 301-11 during my posted office hours or at another mutually determined time. If this location is not convenient for you, we will schedule an alternative place for the meeting. If you use

an alternative medium for communicating, let me know well in advance of the meeting (at least one week) so that appropriate accommodations can be arranged.

AN INVITATION:

If you have any questions about the course or the assignments; or have any problems with due dates or your grade; or just want to talk, PLEASE make an appointment to see me during office hours or at an arranged time.



**Student Understandings (Your copy)
Math& 152 / Moore-Mueller**

1. I understand the standards in this course and that I am responsible for monitoring my own learning.
2. I understand that I must show respect for everyone in class and can expect the same of others.
3. I understand that I am responsible for establishing my priorities in order to fulfill the requirements of this course.
4. I understand that when we are working in small groups, I am responsible to take an active part in advancing the assigned work of the group.
5. I understand that if at any time in the quarter I feel unsure about my “grade”, I may request an update on WAMAP.
6. I understand that I am in control and responsible for my own learning.
7. I understand that labs and nearly all in-class work will be done in pairs or larger groups and that they may require time spent outside of class time with my group.
8. I understand that the work of the course requires consistent classroom attendance and active participation.
9. I understand that reading the sections and working through examples prior to class discussion will lead to a better comprehension of the material.
10. I understand that I should call or email my instructor in the event that I cannot make it to a test. (**Only** then can arrangements be made for an alternative test time.) As well, I understand that I am allotted a maximum of **one** of these emergencies during the quarter.
11. I understand that no cheating will be tolerated in this class and the consequences for such action could result in dismissal from the class (and a grade of 0.0).



Math& 152 Integral Calculus

8:00 - 8:50 AM (#6847)

Fall 2017 - Laura Moore-Mueller

	Monday	Tuesday	Wednesday	Thursday	Friday
Wk 1	Sep-25 <i>Introduction</i> 5.1	Sep-26 4.8	Sep-27 4.8	Sep-28 5.1	Sep-29 5.1
Wk 2	Oct-2 5.1	Oct-3 5.1/5.2	Oct-4 5.2	Oct-5 5.2	Oct-6 5.3/5.4
Wk 3	Oct-9 5.3/5.4	Oct-10 5.3/5.4	Oct-11 5.5	Oct-12 5.5	Oct-13 5.5/5.6
Wk 4	Oct-16 5.6	Oct-17 TEST 1	Oct-18 5.7	Oct-19 5.7	Oct-20 5.7
Wk 5	Oct-23 5.7	Oct-24 6.1	Oct-25 Inservice Day No Day Classes	Oct-26 6.1	Oct-27 6.2
Wk 6	Oct-30 6.2	Oct-31 Advising Day No Classes	Nov-1 6.3	Nov-2 6.3	Nov-3 TEST 2
Wk 7	Nov-6 5.9	Nov-7 5.9	Nov-8 6.4	Nov-9 6.4	Nov-10 Veteran's Day No Classes
Wk 8	Nov-13 6.5	Nov-14 4.5	Nov-15 4.5	Nov-16 5.10	Nov-17 Last day to withdraw 5.10
Wk 9	Nov-20 7.3	Nov-21 7.3	Nov-22 7.3	Nov-23 Thanksgiving No Classes	Nov-24 Holiday No Classes
Wk 10	Nov-27 7.3	Nov-28 TEST 3	Nov-29 7.3	Nov-30 6.6	Dec-1 6.6
Wk 11	Dec-4 6.6	Dec-5 6.6	Dec-6 5.8	Dec-7 5.8	Dec-8 <i>Review</i>
Wk 12	Dec-11 Study Day (No Day Classes)	Dec-12 Final Exams	Dec-13 Final Exams	Dec-14 Final Exam 8 - 10 AM	Dec-15