CALCULUS II
MATH 1220
Fall Semester 2016

INSTRUCTOR: Ron McKay
OFFICE: 3-183 G (South City Campus)
E-MAIL: Ronald.mckay@slcc.edu
PHONE: 801-957-3229
CONSULTATION: Monday, Wednesday 1-2 pm; Friday 12-1pm; or by appointment.
WEB PAGE: www.ronaldmckay.weebly.com

REQUIRED TEXT: _Calculus: Early Transcendentals, **8th edition**_ by James Stewart**,**
     Brooks/Cole, Cengage Learning (publisher)

INTRODUCTION: SLCC is committed to fostering and assessing the following student learning outcomes in its programs and courses:
- o Acquiring substantive knowledge in the field of their choice
- o Developing quantitative literacies
- o Developing the knowledge and skills to be civically engaged
- o Thinking critically
- o Communicating effectively

MATH DEPARTMENT WEBPAGE: The SLCC Math homepage is located at:

     http://www.slcc.edu/math/

This site contains many resources for students including tips for student success, Department policies, and final exam information.

PREREQUISITES: Completion of Calculus I (MATH 1210) with a grade of C or better within the last year.

COURSE DESCRIPTION and Objectives: This course is a continuation of the study of differential and integral calculus from M1210. Topics include transcendental functions, integration techniques, improper integrals, infinite sequences and series including Taylor series, some numerical approximation methods, elementary differential equations, and vectors and the geometry of space. At the end of the course, students will be able to:
- Use several techniques of integration including the substitution method, integration by parts, trigonometric substitutions, partial fractions, the Taylor's Series for non-elementary integrals;
- Recognize and solve simple separable differential equations;
- Use Cartesian and polar coordinates;
- Apply integrals to find areas and volumes;
- Use vectors in 2-dimensional and 3-dimensional spaces.

REQUIRED MATERIALS: There is no required material for this course. However, homework is assigned from the text, so you should minimally have access to the textbook**.**

CALCULATOR POLICY: Graphing calculators and computer algebra systems are useful tools for demonstrating concepts and facilitating problem solving. They are not a substitute for learning the fundamental concepts of this course. Some homework assignments and projects may require the use of a graphing calculator or computer algebra software such as Maple or Mathematica.

A basic scientific calculator with a simple numeric store and recall memory may be used on in-class tests, including the final exam. Graphing, programmable, or calculators capable of symbolic manipulation are prohibited on in-class tests, including the final exam. Prohibited calculators include the TI 83, TI 84, TI 86, TI-36X, TI89, TI92, TI-Nspire, HP 48SX, HP 48GX, as well as other models and brands. The instructor has the right to prohibit the use of a particular calculator during exams. Please ask your instructor in advance if you have concerns regarding a particular calculator. Computers, cell phones, and other communication devices are also prohibited on all in-class tests, including the final exam.

Electronic Devices in the Classroom: Absolutely **no** video or audio recording in the classroom is allowed without *prior written authorization from the instructor*. Cell phones and other electronic devices should be in silence mode during lectures, tests, and final exams. Such devices should not be on the desk during lectures, tests, and final exam. In case of emergency, students should exit the classroom before they e-mail, text, or use their cell phones. If students choose to use a computer or electronic device to take notes, they may do so without distracting their classmates. Computer activities that are not related to the class directly should not be done during class time. Students who text, talk on the cell phone, or use their computers to do activities not directly related to the class may be asked to leave the classroom.

Tentative Course Schedule: A tentative weekly schedule for the course is provided. This schedule will be followed as closely as possible. However, some modifications may be necessary throughout the semester and will be announced in class and on Canvas by your instructor; students are responsible for all in class announcements. Please see the schedule for important dates.

Attendance: Class attendance is expected. It will be your responsibility to learn any information you miss due to lack of attendance. You will be held responsible for announcements made in class. You will not be allowed to make up in-class projects or group exercises completed during class time.

Homework: Homework will be collected on the day of exams. A homework list is provided. A list of "Homework Requirements" is also provided, and must be followed in order to receive full credit for assignments. **Regular practice is essential for success in mathematics; you should be prepared to spend at least two hours studying outside of class for each hour of class time**. You are encouraged to work more exercises than those assigned. Late homework may have 10% per day deducted from the grade.

Other Assignments: There may be at least one applied project, group exercise, and/or computer assignment assigned throughout the course.

Exams: There may be up to four regular exams taken during the semester at scheduled class periods. Full credit will be awarded on test problems only if your work can be readily followed and solutions are precise and clearly indicated. **No graphing calculators on exams-NO EXCEPTIONS.**

Final Exam: The final exam will be comprehensive. It is an SLCC Math Department policy that students attaining a score of less than 60% on the final shall receive a grade no higher than "D" for the course. Permission to take the final at a time other than the scheduled time must be approved by the Mathematics Department Chair.

Classroom Deportment: Each student is responsible for his/her own behavior. Any student who shows a pattern of disrespect for others, or who at any time displays egregious disrespect for others, will be subject to penalties as per the student code of conduct. All students at SLCC must comply with the Student Code of Conduct: http://www.slcc.edu/policies/docs/Student_Code_of_Conduct.pdf. In particular, note the Academic Standards on pages 41 and 42 with regards to cheating, misrepresentation, out-of-class work, and plagiarism. In compliance with this document, a student who is academically dishonest will receive an E for this course. Also note the Disorderly Conduct sections on pages 18 and 19.

Withdraw Policy: Students who desire to drop or withdraw the class must do so by themselves before the deadlines stated at http://www.slcc.edu/academiccalendar/
Telling the instructor that you are withdrawing from the class is insufficient. You must withdraw from the class through the Registration office. No withdrawals will be approved after that date. Note also that students' class status will **not** be changed to **audit** by the instructor after the students' deadline to do so themselves. Neither incompletes nor audits will be allowed to be abused as a way to avoid an undesirable grade earned or withdrawal.

Permanent Folder: Keep all homework, labs, and exams in a folder until you have received a grade for the course.

Grades: Grades throughout the semester will be logged into Canvas. Final grades will be posted on-line through MyPage. Final grades are awarded as follows:

SCALE:

A	94 – 100 %		C	73 – 76 %
A-	90 – 93 %		C-	70 – 72 %
B+	87 – 89 %		D+	67 – 69 %
B	83 – 86 %		D	63 – 66 %
B-	80 – 82 %		D-	60 – 62 %
C+	77 – 79 %		E	0 – 59 %

WEIGHTS:

Homework & Projects	20% of final grade
Chapter Exams	50% of final grade
Final Exam	30% of final grade

Incomplete Policy: The grade of Incomplete is given only in certain cases. Typically, an incomplete is given if the student needs extra time to complete a very limited portion of the course, e.g., the Final Exam, due to some good reason, e.g., being in the hospital. Incompletes are not given to repeat half, most, or the entire course. At least 70% of the course must be completed before an incomplete is even a possibility as per college policy.

ACCOMMODATIONS: Students with medical, psychological, learning or other disability desiring accommodations or services under ADA must contact the Disability Resource Center (Redwood Student Center - Room 244 or South City Campus – Room 1-061 E-A), 957-4659 (voice), 957-4646 (TTY), and 957-4947 (FAX).

Extra Help: The methods for success in mathematics courses are straightforward: read the text, participate in class, take good notes and read them, and keep up on assignments (practice, practice, practice). Many students find that forming study groups with other students is also an effective way to help them learn, but take heed, working in study groups does not substitute for independent study; it is merely a catalyst. If you need extra help, free tutoring is available in the **Learning Centers** (phone 801-957-4172) at Redwood TB-213 and LIB 044, South 3-174 (phone 801-957-3261), and Jordan Rm. HTB 102 (phone 801-957-2852), or visit: http://www.slcc.edu/tutoring/index.aspx. A list of private tutors who may be hired is available in the Learning Centers. The internet is full of resources that could be used for this class. You are encouraged to explore. Individualized and small group tutoring is available (and free) to students through **Focused Tutoring.** Students need to apply to be matched with a tutor for the semester. Tutoring can be arranged at other campuses depending on tutor and student schedules. Contact Jennifer Fasy for more information (Jennifer.fasy@slcc.edu; 801-957-4138) or visit: http://www.slcc.edu/focusedtutoring/index.aspxA list of private tutors that may be hired is also typically available in the Learning Centers.

Academic Advising: Academic advising is available to assist with the following:

- Creating an educational plan and/or to set up a class schedule
- Identify the courses needed toward graduation
- Obtain transfer information
- Review academic progress

For more information, visit: http://www.slcc.edu/academicadvising/index.aspx

Finally, read and be aware of the regulations set forth in the current Class Schedule for this semester in the SLCC college catalog.

Title IX Information:

20 U.S.C.A. Section 1681 (a): TITLE IX

"No person in the United States shall, on the basis of sex, be excluded from participation in, be denied benefit of, or be subjected to discrimination under any education program or activity receiving federal funds."

Examples of violations (but not limited to):

- Sexual advances, requests for sexual favors and sexually motivated physical conduct
- Overt or subtle pressure for sexual activity
- Sexually offensive verbalization including remarks, "teasing", slurs, and innuendo
- Repeated inappropriate jokes or comments about sex or gender specific traits
- Conduct that is demeaning or derisive and occurs substantially because of one's gender
- Sexual assault
- Sexual Violence
- Gender based disparate treatment

Violations can occur in any college environment, such as (but not limited to):

- Field Trips
- Student Clubs
- Transportation
- Classrooms
- Athletics
- On Campus Events

If you have questions or concerns regarding your rights or responsibilities, or if you would like to file a Title IX complaint please contact:

Students-
Dr. Marlin Clark, Dean of Students, 801-957-4776, STC 276 A (Redwood)
Employees or Community members-
Ken Stonebrook, Title IX & Discrimination Manager, 801-957-5027, AAB 211G (Redwood)
Online Reporting Form-
http://www.slcc.edu/eeo/title-ix/complaint.aspx

Salt Lake Community College has a strong prohibition against RETALIATION!
The college does not tolerate acts of retaliation against anyone for engaging in filing a complaint or participating in an investigation.