

Course Title and Number: MTH 255 Vector Calculus II		Instructor: Benjamin Holt	
Year and Term: Winter 2024	Course Credi 4	ts:	Office Location: Sitkum 2C
Office Phone: 541-888-7608	Office Hours MW: 9 am – 9 TR: 10 am – 1	9:50 am,	Class Location: Sitkum 12
Meeting Time/Days: MW 10:00 am – 11:50 am		Email Address: benjamin.holt@socc.edu (PLEASE use Canvas or your socc.edu account! I will not reply to emails from any other place.)	
Web Page Address: https://holt.blue/MTH 255/homepage.html		Fax Number:	

Course Description (as it appears in the approved College Course Outline)	Topics include tangent planes and gradient; optimization of functions of several variables; iterated integration, multiple integrals; divergence and curl of vector fields, line and surface integrals; Green's, Gauss', and Stokes' theorems.	
Course Objectives Reflecting Expected Student Learning Outcomes	 Explain the significance and usefulness of multiple integrals. Explain the significance and usefulness of vector fields. Utilize partial derivatives and iterated integrals to solve standard applications. Utilize a change of variables for the evaluation of multiple integrals. Utilize vector calculus for the description and analysis of vector fields. Utilize a systematic approach to obtain solutions to unfamiliar problems with confidence. 	
Grading	problems with confidence. Course Requirements: myOpenMath Homework: There will be a homework assignment for each section we cover in this course. Each assignment is completed in Canvas The due dates for all assignments are given in the course schedule on the last page of this syllabus and are also on Canvas. On each homework problem you have 100 attempts. Any problem on and assignment can be swapped for another one at a 20% penalty on the points for that problem. Late homework assignments can be made up with a late pass which extends the homework due date by 72 hours. You have a total of 6 late passes for the term. Please use them only when you really need them.	
	Each assignment grade is a percentage. Your average of these percentages is	



your homework grade.

Exams: There will be three exams over the course of the term covering material up to each exam. Every exam will consist of 10 questions drawn randomly from a multiple-choice test question bank which consists of problems taken from myOpenMath homework.To practice for each exam, there will be three ungraded assignments: in Canvas which will allow you to survey potential exam questions.

Exam 3: Exam 3 will NOT be cumulative and will have the same format and weight as the other 2 exams. Exam 3 (the final exam) will be given ONLY on the day that is scheduled by the college. (Please see the schedule on the last page of this syllabus.)

Calculators & Technology: For the exam you may use the TI 30XIIS calculator. If there is another calculator that you would like to use, you need to get permission with me beforehand. You MAY NOT use any online resources during the exam.

Handwritten Notes: For the exam you may use your handwritten notes. You MAY NOT use any online resources during the exam.

Policies on Missed Exams and Late Work:

Late homework assignments can be made up with a late pass which extends the homework due date by 72 hours. You have a total of 3 late passes for the term. Please use them only when you really need them.

Missed exams can be made up at a penalty of 20% subtracted from the score received. If you miss an exam for reasons which are beyond your control, you are welcome to present your circumstances to me. Right before class is generally not a good time to do this, so please be mindful. My office hours are usually the best place to discuss such matters.

Also, please be aware that travel arrangements made in advance of exam dates are NOT considered circumstances beyond your control.

Course Grade: Your course grade is determined by the following items and their asso lated weights:

myOpenMath Homework: 25%

Exam 1: 25% Exam 2: 25% Exam 3: 25%



	The letter grade equivalents to the above course grade are: 90≤Course Grade<100 A 80≤Course Grade<80 C 60≤Course Grade<70 D Course Grade<60 F Please Note: 1. No graded items will be accepted past the deadline 11:59 pm on the day of the final exam. 2. Your final course grade will NOT be rounded up no matter how close it is to the next letter grade. Ample opportunity is provided during the term to earn the grade you want and it is your job to make sure your grade lands where you want it. Students who need reasonable accommodation should contact the instructor or call Disability Services for Students at 541-888-7405.
Text(s)	Optional Text OpenStax Calculus, Volume 3, Edwin Herman and Gilbert Strang. The electronic version is freely available in Canvas and on the course website, and printed copies are available in the campus bookstore for purchase.
Required Materials	A TI 30XIIS or TI Multiview Calculator.
Term Calendar (The instructor reserves the right to alter dates of presentations and exams/projects.)	Topics to be Covered: Please see the course calendar on the last page of this syllabus.
Prerequisites	MTH 254 is a prerequisite for this course. If you did not pass MTH 254 with a "C" or higher, you may be administratively withdrawn from this course within the refund period. This withdrawal could affect your financial aid and/ or academic standing. If you are uncertain about whether you have passed MTH 254 with a "C" or higher, check MyLakerLink or with your advisor within the first week of class to ensure you have met the course prerequisites.
Availability of Tutoring, Learning Lab, Academic Support	In addition to office hours I highly recommend that you visit the tutoring center on the 3rd floor of the Tioga building. There are tutors there waiting to help you! Also, tutoring services are FREEEEEEEEEEEEEEEE!!!!!



Policies and Guidelines

Components marked with asterisk (*) are required for every syllabus.

* Course Hours

Southwestern's Credit Hour Administrative Policy (APP 8191) stipulates that credit-bearing courses, regardless of delivery method, are scheduled and conducted in compliance with the definition of the credit hour as set forth in Section 600.2 and 600.24 of the Code of Federal Regulations and the NWCCU Policy on Credit Hour.

For this reason, students are expected to complete a minimum of two hours of out-of-class student work per credit hour each week for the quarter.

* Children in the Classroom

Children represent a disruptive element for the classroom. They also increase the risk of accidents occurring in the laboratory. For those reasons, children should not be brought to either the classroom or the laboratory.

*Academic Honesty: Plagiarism And Cheating

Cheating, plagiarism, and other acts of academic dishonesty are regarded as serious offenses. Instructors have the responsibility to submit, in a written report to the Dean of Students any such incident that cannot be resolved between the instructor and student. The policy of the Board of Education of Southwestern Oregon Community College on Student Rights, Student Code of Conduct, and Student Grievance Procedure outlines penalties ranging from admonition to expulsion from the class or college. In the policy, academic plagiarism is defined as: "The intentional submission for evaluation to a college instructor or administrator of material based, in significant part, on work done by someone other than the submitter without reasonable written indication to the evaluator of the material's true source." Academic cheating is defined as "The intentional submission for evaluation to a college instructor or administrator of material based, in part, on a source or sources forbidden by generally accepted standards or by regulation established by the evaluator and disclosed in a reasonable manner." The complete policy, student rights and responsibilities, penalties, and recourse through the Grievance Procedure can be found in the Student Handbook (http://www.socc.edu/studentlife/pgs/bm~doc/socc-hb.pdf).

*Academic Ethics and Confidentiality

It is the responsibility of everyone engaged in the learning experience to respect the rights and feelings of their fellow learners. Information gathered in the classroom and from on-line discussions and exercises is to be considered confidential. At the same time, students must recognize that the instructor and the College cannot guarantee the confidentiality of what the student may choose to disclose. Students must use their own discretion when engaging in classroom discussion.

*Classroom Behavior

Instructors have the responsibility to set and maintain standards of classroom behavior appropriate to the discipline and method of teaching. Students may not engage in any activity which the instructor deems disruptive or counterproductive to the goals of the class. Students are required to keep cell phones, beepers, and pagers off during class lectures, unless there is permission in advance from the instructor. Instructors have the right to remove offending students from class. Repetition of the offense may result in expulsion from the course.

*Student Conduct

Opt #1: Students must read and be familiar with the Code of Conduct as published in the Student Handbook, policies and procedures as outlined in campus publications, Southwestern Oregon policies.

Opt. #2: Students in this (or any) program of study should be especially aware of the severe consequences of plagiarism. Students that submit work that is not their own will be dealt with quickly and severely. It will be the recommendation of the faculty to remove such students from the College.

Opt. #3: Students that have a concern regarding any inappropriate conduct should bring it to the attention of their instructor, advisor, or Department Chair immediately. Inappropriate conduct situations will be reviewed immediately.

Opt. #4: Students taking this course should be aware of the potential diversity of the artistic perception of the participants - particularly as applicable to violence, artistic statements, and nudity. Please keep your material and remarks professional and appropriate and be sensitive to individuals that have views different than your own.



*Americans with Disability Act – Disability Accommodation Statement

SWOCC recognizes the contribution that a diverse student body brings to the educational experience. If you have a documented disability that may require assistance, inform your instructor and then contact the Disability Services Office for coordination of your academic accommodations. To ensure that your instructor is aware of your request, you are required to set up an appointment to talk with them sometime during the first two weeks of the term. The Disability Services Office is located on the Southwestern campus in Student Support Services, Stensland Hall. Please call the following number for more information (541) 888-7405.

*Notice of Non-Discrimination

Students, their families, employees and potential employees of the Southwestern Oregon Community College District are hereby notified that Southwestern Oregon Community College does not discriminate on the basis of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity, or protected veterans in employment, education, or activities as set forth in compliance with federal and state statutes and regulations. Any persons having inquiries concerning Southwestern's compliance with Title II, Title IV, Title VI, Title VI, Title IX and/or Section 504 or wish to make a complaint may contact the College's Affirmative Action Officer:

Vice President of Administrative Services Southwestern Oregon Community College 1988 Newmark Ave., Tioga Hall, Room 511 Coos Bay, OR 97420 (541) 888-7402

Southwestern Oregon Community College offers the following career and technical education programs for all students regardless of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity or protected veteran status, including those with limited English proficiency: Business, Office Technology, Computer Technology, Childhood Education, Criminal Justice, Culinary, Fire Sciences, Health Sciences, and Welding and Fabrication. Persons seeking further information concerning the vocational education offerings and specific pre-requisite criteria should contact:

Ali Mageehon, Vice President of Instruction and Student Services Southwestern Oregon Community College 1988 Newmark Ave., Tioga Hall, Room 506 Coos Bay, OR 97420 (541) 888-7417 ali.mageehon@socc.edu

*Grievances

For more information on the grievance process visit the Student Handbook.

Class Cancellations (Faculty Absence)

Notices of class cancellations at SWOCC are made through an automated system called RAVE. Notices of class cancellations due to faculty absence will be sent to through the following devices: Voicemail to cell phone, text to cell phone, and email to college email account. To receive these important notices, please update your cell phone, telephone and email contact information through myLakerLink, click on the Student Information tab, then Rave User Portlet.

Cell Phone Use Policy

Given the disruptive potential posed by cell phones, students are required to keep cell phones off during class lectures. Use of cell phones during laboratory exercises are permissible, but please consider those around you.



Day	Topic	Due
M 1/8	Course Introduction Section 5.1: Double Integrals Over Rectangular Regions	MyOpenMath Intro Assignment
W 1/10	Section 5.2: Double Integrals Over General Regions	
M 1/15	Martin Luther King Holiday	
W 1/17	Section 5.3: Double Integrals in Polar Coordinates	Section 5.1
M 1/22	Section 5.4: Triple Integrals	Section 5.2 Section 5.3
W 1/24	Section 5.5: Triple Integrals in Cylindrical and Spherical Coordinates	
M 1/29	Review	Section 5.4 Section 5.5
W 1/31	Exam 1: Sections 5.1, 5.2, 5.3, 5.4, 5.5	
M 2/5	Section 6.1 Vector Fields	
W 2/7	Section 6.2 Line & Flux Integrals	
M 2/12	Section 6.3 Conservative Vector Fields	Section 6.1 Section 6.2
W 2/14	Section 6.4 Green's Theorem	
M 2/19	President's Day Holiday	
W 2/21	Review	Section 6.3 Section 6.4
M 2/26	Exam 2: 6.1, 6.2, 6.3, 6.4	
W 2/28	Section 6.5 Divergence and Curl	
M 3/4	Section 6.6 Surface Integrals	Section 6.5
W 3/6	Section 6.7 Stokes' Theorem	
M 3/11	Section 6.8 The Divergence Theorem	Section 6.6 Section 6.7
W 3/13	Review for Exam 3	
M 3/18	Exam 3: 6.5, 6.6, 6.7, 6.8 (10 am – 11:50 am)	Section 6.8