

WHITE MOUNTAINS COMMUNITY COLLEGE  
2020 Riverside Drive, Berlin, NH 03570

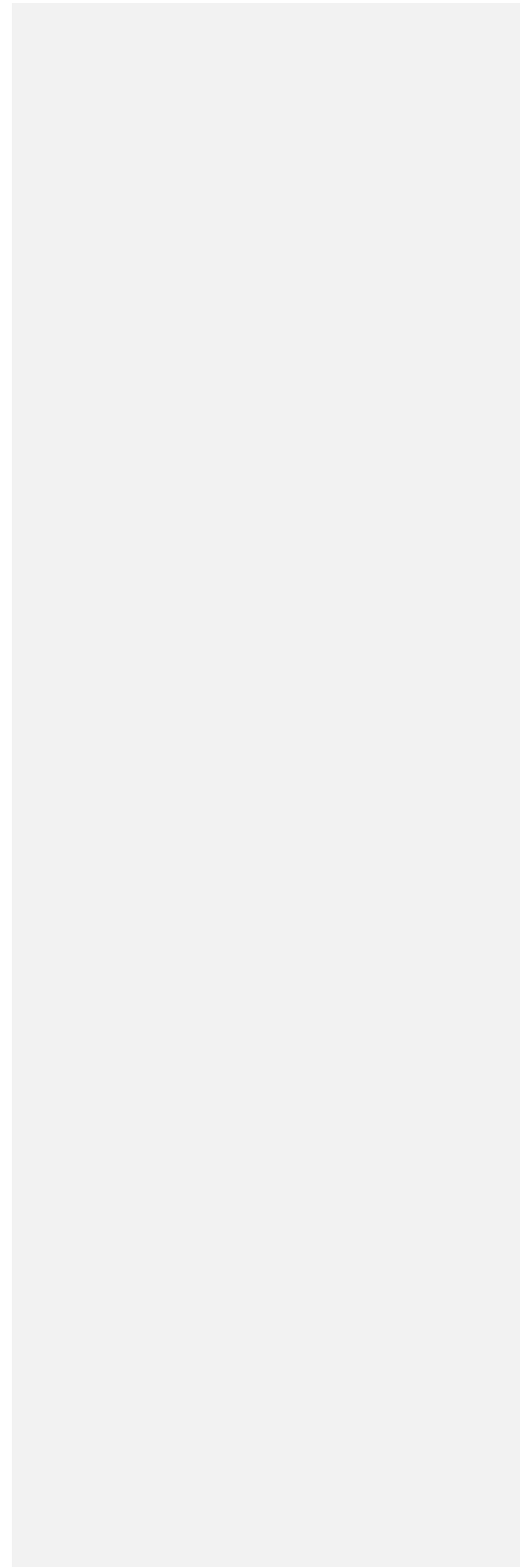
### COURSE OUTLINE

MAT215  
Course Number  
Fall/Spring 2013-2014  
Semester

Calculus  
Title  
Oxbow HS, Bradford VT  
Location

Daniel Lemay  
Instructor

05/05/2013  
Date



**COURSE NUMBER AND TITLE:** MAT 215 Calculus

**CATALOG DESCRIPTION:**

MAT215 Calculus  
(4 Credits)

This course concentrates on limits, differentiation and integration. Exponential, trigonometric and logarithmic functions will all be included. Application of the techniques discussed will be employed in curve sketching, finding areas and volumes, problems in the physical sciences as well as other areas. If time permits there will be an introduction to differential equations.

**PREREQUISITE(S) (IF ANY):** Pre-Calculus or PERMISSION OF INSTRUCTOR/Mathematics Department at Oxbow

Class Hours: 0.75 hours daily, full year  
Lab Hours: 0  
Credit Hours: 4

**INSTRUCTOR:**

Email: dlemay@oxbowhs.org  
Phone: (802) 222 - 5214  
Office Hours: W/Th 2:30 to 3:15 other times by appointment

**TEXTBOOK(S) REQUIRED:**

Author: Demanna, Waits, Foley and Kennedy  
Title: Calculus: Graphical, Numerical, Algebraic  
Edition: 2<sup>nd</sup> edition  
Publisher: Pearson

**RECOMMENDED SUPPLEMENTARY READING:**

Other materials as deemed appropriate

**Objectives:**

- You will learn new methods of problem solving.
- You will gain an understanding of the concept of limit.
- You will apply differentiation to problems involving velocity, acceleration and rates of change, science and economics.
- You will learn new and more effective methods of graphing functions.
- You will gain an understanding of the concept of the integral.
- You will learn about and apply differentials and integrals to exponential and logarithmic functions.
- You will learn about and apply differentials and integrals to trigonometric functions.
- **You will learn about and solve First Order Differential Equations.**

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## LEARNING ACTIVITIES:

Lectures, Guided practice, class/group explorations, homework

## LIBRARY RESOURCES:

There are many library resources available in our library. Please contact the library staff for more information. In addition students who take advantage of the Running Start option available for this course and register for WMCC's course will have access to all the resources available to on-campus students at the WMCC Fortier Library (<http://www.wmcc.edu/services/lib/>) on the Berlin campus. These students will also be sent information about how to access electronic resources such as catalogs, books, database searches available to Running Start students through the Fortier Library.

## GRADING POLICY:

Every graded assignment will be awarded a designated number of points. Each marking period's grade will be determined using a running total of points earned by points possible. The average (mean) of each marking period, two 90 minute comprehensive exams and a culminating final project will determine your grade for Running Start WMCC credit.

In addition to homework, quizzes/tests, in class explorations, you are responsible for one paper each semester. Details will follow.

Please note that for students taking the course for WMCC credit, WMCC assigns letters grades using these numerical equivalencies:

A: 93-100 (There is no A+ grade.)	B+ : 87-89	C+ : 77-79	D+ : 67-69	F: Below 60
A-: 90-92	B : 83-86	C: 73-76	D: 63-66	
	B-: 80-82	C-: 70-72	D-: 60-62	

## INSTRUCTOR'S POLICIES:

**ACADEMIC HONESTY** – Original thinking and intellectual honesty are central to a college education. Research projects require the ongoing use of existing works, but students must conduct themselves with proper regard for the rights of others and of the college, in a context of mutual respect, integrity and reason. Activities such as plagiarism and cheating are not acceptable and will not be condoned by the college. Students involved in such activities are subject to serious disciplinary action. The following are presented as examples of academic dishonesty:

1. Misrepresenting academic work done by someone else as one's own efforts, with or without permission of the person.
2. Providing or using prohibited assistance in assignments and examinations.
3. Unauthorized communication in any manner with other students during an

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examination; collaboration in the preparation of reports or take-home examinations; copying, giving aid or failing to follow the faculty member's instructions.

4. Tampering with or falsifying official college records.
5. Infringing upon the right of other students to fair and equal access to college library materials and comparable academic resources.
6. Falsification of data collected for and presented as part of course requirements.
7. Presenting as one's own ideas, another person's work or words without proper acknowledgment.

There may be other instances of academic dishonesty, which will be identified by a faculty member.

#### **REQUIRED TOOLS OR EQUIPMENT:**

TI-83 Plus or higher graphing calculator. See <http://danlemay.net>>AP Calculus for recommendations.

#### **SPECIFIC DIRECTIONS OR RECOMMENDATIONS:**

Please be advised that students currently receiving modifications in an IEP under the Individuals with Disabilities Education Act and Section 504 of the Rehabilitation Act will not be eligible for those same modifications in a college course in the Running Start program. While students may be eligible for accommodations through the college's Disabilities Services Office, students must be otherwise qualified to do college level work and address the essential elements of the course without fundamental alterations to the curriculum. If you have questions, please contact the Disabilities Coordinator at the White Mountains Community College or the Running Start Coordinator at WMCC.

**DISCRIMINATION POLICY:** White Mountains Community College does not discriminate on the basis of race, color, national origin, sex, age or handicap in admission or access to, or treatment or employment in, its programs and activities. Any persons having inquiries concerning White Mountains Community College's compliance with the regulations implementing Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, or Section 504 of the Rehabilitation Act of 1973 is directed to contact Peg Heaney, 2020 Riverside Drive, Berlin, NH 03570. Peg Heaney has been designated by White Mountains Community College to coordinate the institution's efforts to comply with the regulations implementing Title VI, Title IX and Section 504. Any person may also contact the Assistant Secretary for Civil Rights, U.S. Department of Education, or the Director, U.S. Department of Education, Office for Civil Rights, Region 1,140 Federal Street, Boston, MA, 02110.

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Course # MAT215

**COURSE TIMETABLE**

Week of	Objective	Assignments
08/31/13	<ul style="list-style-type: none"> <li>⤴ How this course works</li> <li>⤴ Limits from Graphs</li> <li>⤴ Finding Limits Algebraically</li> </ul>	Handout Handout
09/06/13	<ul style="list-style-type: none"> <li>⤴ More work with limits at a value and at infinity</li> </ul>	FDWK Sections 2.1 and 2.2  Quiz
09/12/13	<ul style="list-style-type: none"> <li>⤴ Continuity and its implications</li> <li>⤴ Average Rates of Change vs Instantaneous Rates of Change</li> <li>⤴ Tangent lines</li> </ul>	FDWK Sections 2.3 and 2.4  Quiz
09/19/13	<ul style="list-style-type: none"> <li>⤴ Review for Exam.</li> <li>⤴ Definition of the derivative.</li> <li>⤴ Differentiability</li> </ul>	First Exam  FDWK Sections 3.1 and 3.2
09/26/13	<ul style="list-style-type: none"> <li>⤴ Power/Product/Quotient Rule of differentiation (Polynomial, rational functions and functions containing radicals)</li> </ul>	FDWK Section 3.3 and handouts  Quiz
10/03/13	<ul style="list-style-type: none"> <li>⤴ Velocity and other rates of change</li> <li>⤴ Derivatives of trigonometric functions.</li> </ul>	FDWK Sections 3.4 and 3.5  Quiz

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10/10/13	<ul style="list-style-type: none"> <li>⤴ Chain Rule</li> <li>⤴ Implicit differentiation</li> </ul>	FDWK Sections 3.6 and 3.7  Quiz
10/17/13	<ul style="list-style-type: none"> <li>⤴ Inverse trigonometric functions and their derivatives</li> </ul>	FDWK Section 3.8 and handouts  Quiz
10/24/13	<ul style="list-style-type: none"> <li>⤴ Derivatives of Exponential and logarithmic functions.</li> </ul>	FDWK Section 3.9 and handouts  End of First Marking Period
10/31/13	<ul style="list-style-type: none"> <li>⤴ Exam Chapter 3</li> <li>⤴ Extreme Value Theorem</li> </ul>	FDWK Section 4.1
11/07/13	<ul style="list-style-type: none"> <li>⤴ Mean Value Theorem and implications</li> </ul>	FDWK Sections 4.2 and handout  Quiz on sections 4.1 – 4.2
11/14/13	<ul style="list-style-type: none"> <li>⤴ Graphing functions using <math>f</math>, <math>f'</math> and <math>f''</math></li> </ul>	FDWK Sections 4.3 and handout
11/21/13	<ul style="list-style-type: none"> <li>⤴ Quiz on Sections 4.1 – 4.3</li> </ul>	Thanksgiving Break
11/28/13	<ul style="list-style-type: none"> <li>⤴ Modeling and optimization</li> </ul>	FDWK Section 4.4 and handout  Quiz
12/05/13	<ul style="list-style-type: none"> <li>⤴ Related Rates</li> </ul>	FDWK Section 4.5 and handout
12/12/13	<ul style="list-style-type: none"> <li>⤴ Chapter Review</li> </ul>	FDWK Chapter 4 Review and handouts.
12/19/13	<ul style="list-style-type: none"> <li>⤴ Exam on Chapter 4</li> </ul>	Break

01/02/14	Integration as an area Preparing for Midyear Examination	FDWK Section 5.1
01/09/14	Mid Year Exams	
01/17/14	Review Activity Definite Integrals	Handout FDWK Section 5.2
01/23/14	Antiderivatives and Integrals	FDWK Section 5.3 Quiz on Sections 5.1 to 5.3
01/30/14	Fundamental Theorem of Calculus	FDWK Section 5.4 and handout
02/06/14	Trapezoidal Rule Chapter Review	FDWK Section 5.5 and Chapter 5 Review
02/13/14	Chapter Exam.	Break
02/27/14	Indefinite Integrals and Slope Fields Integration using substitution	FDWK Section 6.1 and handouts FDWK Section 6.2 and handout
03/07/14	Population Growth/decay and integration	FDWK Section 6.4 and handout Quiz on Chapter 6 work
03/12/14	Integrals as "Net Change" Areas between curves	FDWK Section 7.1 and 7.2
03/19/14	Finding volumes using integration	FDWK Section 7.3 and handout

03/26/14	Arc length Begin AP Exam Review	FDWK Section 7.4 "Big Handout" practice packet Quiz
04/02/14	Review for AP Exam	Handouts, Quiz
04/09/14	Review for AP Exam	Handouts, Quiz
04/23/14	Review for AP Exam	Handouts, Quiz
04/30/14	Review for AP Exam	Handouts, Quiz
05/07/14	Review for AP Exam	May 8, 2014 AP Calculus Examination



Course # MAT215

Prepared by: Daniel Lemay Date: 05/05/13

Approved by:  
Department Chairperson or Program Coordinator

Date:

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**Page 3: [11] Commented**

**5/15/2011 7:21:00 AM**

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**Page 3: [12] Commented**

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