

# Math 1134 – Calculus II

## Spring 2012

**Professor:** Carrie Naughton  
**Office:** Library L247  
**Office Hours:** MW 5:00-5:50 pm, Thursday 3:00 – 5:00 pm, online Tuesday 8:00-9:00 pm (may vary) or by appt.  
**Phone:** 651-450-3785  
**Email:** [cnaught@inverhills.edu](mailto:cnaught@inverhills.edu)  
**Website:** <http://faculty.inverhills.edu/cnaught/> (similar material and gradebook available on D2L)

**Prerequisite:** Recommendation based on the results of the Inver Hills Assessment Inventory or a grade of a C or better in Math 1133. This course is intended for students majoring in math, computer science, engineering, science, pharmacy, architecture or pre-med.

### Learning Outcomes:

The student should be able to:

1. Demonstrate the ability to solve various applications of the integral.
  2. Model growth and decay problems.
  3. Demonstrate the ability to use the polar coordinate systems and recognize the graphs of basics polar equations.
  4. Demonstrate the ability to determine convergence/divergence of infinite series of constant terms and to apply the theories to power series.
  5. Demonstrate the ability to create power series representative for non-algebraic functions.
- Critical thinking will be incorporated throughout the course.

**Text:** Calculus of a Single Variable, Early Transcendental Functions, 5th Edition, by Larson and Edwards.  
You must have a WebAssign Access Code, which can be purchased wrapped with the textbook at the Bookstore or online at <https://webassign.net/login.html>  
You will also need a course pack for 1133 with my name on the cover.  
You will also need to access course materials from Desire2Learn (D2L).

**Calculators:** A graphing calculator is required. I recommend a TI 83 or higher. Cell phone calculators will not be allowed.

**Math Center:** Help is available in the Math Learning Center (2<sup>nd</sup> floor of the Library). Math tutors are available M-Th: 9-6, and F: 9-1. You can also sign up for a free peer tutor in the 2<sup>nd</sup> floor of the Library for additional help.

### Important Dates:

|                                 |                                  |
|---------------------------------|----------------------------------|
| January 9, Classes begin        | March 5 – March 11, Spring Break |
| January 16, Holiday             | April 6, No School               |
| February 7, Student Success Day | April 20, Last Day to Withdraw   |
| February 20, Holiday            | May 9, Final Exam 6 – 9 pm       |
| February 24, No School          |                                  |

**Note:** Calculus students are strongly encouraged to participate in Student Math League. The benefits include free food, monetary awards and extra credit points!

**Grading Policy:** Your final grade is based on the percentage of earned points out of the total number of possible points. You will earn points on the criteria listed below. **No late submissions are allowed on any of these criteria.**

**Grading Criteria:**

- Weekly Activity Homework:** 17 activities worth 15 points each (two lowest scores are dropped)
- Maple Assignment:** 1 computer lab worth 15 points
- D2L Discussion Post:** 1 posting worth 5 points
- WebAssign Online Quizzes:** 4 quizzes each worth 30 points (two attempts possible per quiz – best score recorded)
- Paper-pencil Exams:** 4 exams worth 100 points each (no retakes allowed)
- Paper-pencil Final Exam:** worth 200 points (retakes NOT allowed)

**Total Points Possible:** The table below shows the total number of points possible in this course. There may also be the opportunity to earn at most 20 points of extra credit during the semester. Further details about extra credit will be announced in class.

| <b>Grading Criteria</b>  | <b>Total Points Possible</b> |
|--------------------------|------------------------------|
| Weekly Activity Homework | 225 points                   |
| Maple Assignment         | 15 points                    |
| D2L Discussion Post      | 5 points                     |
| WebAssign Online Quizzes | 120 points                   |
| Paper-pencil Exams       | 400 points                   |
| Paper-pencil Final Exam  | 200 points                   |
| <b>TOTAL</b>             | <b>965 points</b>            |

**Grade Scale:** The table below shows how your final grade will be computed. You will see the relationship between each letter grade, its percentage and the corresponding range of points that will achieve that grade. **Please note that you must earn a minimum grade of “C” (70%) in order to qualify for the next math course.** If you would like the Pass/No Credit option instead of a letter grade, you must contact me within the first week of the semester so that the appropriate forms can be filled out. You may not choose a Pass/No Credit option later in the semester.

| <b>Letter Grade</b> | <b>Percentage</b> | <b>Range of Points</b> |
|---------------------|-------------------|------------------------|
| A                   | 90-100%           | 869 – 965 points       |
| B                   | 80-89%            | 772 – 868 points       |
| C                   | 70-79%            | 676 – 771 points       |
| D                   | 60-69%            | 579 – 675 points       |
| F                   | Below 60%         | < 579 points           |
| P (Pass)            | Minimum of 70%    | >675 points            |

**Satisfactory Academic Progress:**

Students need to maintain both a cumulative GPA of 2.0 and cumulative completion rate of at least 67% of all attempted credits for each term of attendance. If a student fails to meet these requirements, they will be placed on academic and/or financial aid probation.

## Homework:

There are three types of homework in this class:

1. **Textbook Homework** – You are expected to read any section of the book covered in class, and then attempt the assigned exercises at the end of that section. These assigned exercises from the textbook will not be graded, however it will be imperative that you keep up with your assignments, because daily work done completely will make test and quiz preparation significantly easier. **Note: This textbook homework is not graded, but highly recommended and very helpful.**
2. **WebAssign Homework** – The homework sets found on WebAssign contain problems that are identical in style and format as the WebAssign online quizzes that are required. This homework is excellent practice for learning concepts and learning how to correctly type in your answers in the way that the quizzes will require. The WebAssign homework also provides immediate feedback and assistance on each problem. **Note: This WebAssign homework is optional and not graded, but highly recommended and very helpful.**
3. **Weekly Activity Homework** – These activities are found in your coursepack and are also posted online on D2L. **Seventeen weekly activities will be assigned and collected on the following week after they were assigned.** These activities often contain more challenging problems than what you would find on WebAssign. They also give you practice showing your work as you will be expected to do on your exams and final. **Each of these activities will be graded on effort and will be worth 15 points each.** You may work with others in the class on these activities, but you must write up your own solutions and turn in your own work. **Fifteen homework activities will be counted for points and your two lowest scores will be dropped.** You may occasionally have time in class to work on these activities and be expected to turn in some of the problems for points as classwork as well. **Note: The Weekly Activity Homework is required and graded!**

**You will also be assigned one Maple computer lab assignment worth 15 points.** The Maple software will be available to use in the computer lab and Math Center on campus. You will need to do this assignments on campus since you will not have access to Maple at home.

**Please refer to the Weekly Schedule to see due dates of all Weekly Activity Homework and assignments.** I will be available on campus during my office hours to help with any questions on the activities or HW problems. You are also encouraged to ask questions about the activities on the discussion board.

## Quizzes:

There will be 4 quizzes given online through WebAssign. Each quiz is worth 30 points. **The online quizzes must be completed by the deadline or a score of zero will be received. No make-up quizzes will be given!** You will be given two attempts on each online quiz to get the best score that you can. Sample HW problems are available on WebAssign as well. I highly recommend that you use the HW as practice before the quiz and make use of the help buttons available for any problems that you are struggling with. **You must show all work on a separate piece of paper for all of the online quizzes and turn in this work on the Monday after the quiz is due. You will get a score of zero on the quiz if you do not turn in your work for that quiz!!**

## Exams:

There will be four exams worth 100 points each. These exams may consist of written questions and take home questions and are **closed book with no notes** allowed. Portions of the exams will be taken without the use of a calculator. The final exam will be comprehensive and worth 200 points. **YOU MUST CALL, E-MAIL OR NOTIFY ME ON THE DAY OF THE EXAM OR EARLIER IN ORDER TO BE ALLOWED TO SCHEDULE A MAKE-UP EXAM. All make-up exams need to be completed before I hand back the exams. IF NO CONTACT IS MADE, THEN NO MAKE-UP WILL BE ALLOWED. There are no retakes allowed on exams so please be prepared to put your best effort forward on the day of the test.**

## Discussion Board:

You are required to make one Getting To Know You post to the D2L discussion board during the first week of class. You will earn 5 points for this introductory post as long as it is submitted on time. I would encourage you to use the discussion board more often, and use it as an additional resource to get help from me and your classmates on any questions you have about the activities and quizzes. An example of a good post might be, "I keep getting #10 wrong. Here is what I did... Can anyone tell me where I went wrong?" I strongly encourage you to begin looking at the weekly activities and online quizzes as early as possible so you can ask questions as early as possible. I encourage you to post questions related to the activities, the course material in general or any other course information/details. Please be polite with your posts, using correct English and a respectful tone.

## Netiquette Guidelines:

- Online messages can be quite informal, but try, nevertheless, to express yourself using proper spelling, capitalization, grammar, usage and punctuation. Do not use all capitals. Do not use abbreviations or slang, as some or your peers may not understand it.
- Always think before you write. In an online format, it is easy for your message to be misinterpreted, so always think twice before you hit submit.
- Use titles that accurately and concisely describe the contents of your e-mail or posting.
- Read existing follow-up postings and don't repeat what has already been said.
- Treat people the same as you would face-to-face. It is easy to hide behind the computer. In some cases it empowers people to treat others in ways they would not in person. Treat all with dignity and respect and you can expect that in return.

## Video Lectures:

Online video lectures created by your instructor are available on D2L (under Content) and also on the instructor's webpage. These are meant to provide you with additional resources for learning the content of the course if you missed class or need to listen to the content again. These videos correspond to the lectures given in class. The course expectation is that you are in class every day to hear the lectures and that you use the video lectures only as a resource if you have to be absent or if you need to hear the content again. The lectures covered in class or in the videos should be one of the major resources you use to learn the material. The content covered in the lectures may provide some examples and content that is not necessarily covered in the textbook, yet is required for the course and exams. To watch the videos on D2L, you will need to click on the video under Content, and then click on the small "undock" icon (look for the second icon to the left showing two screens with an arrow between them in the small toolbar above the video screen). The video will then open in a new window after downloading. If you have a PC, then you should be able to play the Windows Media Videos (wmv). If you have a Mac, then you will need to play the flash format videos. Both are available on D2L and my faculty webpage. If you can't get the videos to play through D2L, then the easiest option would be to access the Video Lectures from my faculty webpage: [http://faculty.inverhills.edu/cnaught/video\\_lectures.htm](http://faculty.inverhills.edu/cnaught/video_lectures.htm). **If you are having trouble getting the Video Lectures to play on your computer, please click on "HELP! I can't get the video lectures to work!" found on D2L under Content.**

Additional video lectures created by the textbook publishers can be found on WebAssign. You can access them by clicking on the Media Library found in the online eBook. These resources are not required, but feel free to explore and use as needed.

## Communication:

Each student must have a go.inverhills.edu e-mail account set up. If you do not know your e-mail address or password, please visit the Inver Hills computer lab (1<sup>st</sup> floor of the Library) for help or go to the Inver Hills Activate student accounts webpage at: <http://www.inverhills.edu/accounts/>. I may be sending you e-mails occasionally, so I would recommend that you **check your go.inverhills.edu e-mail** a couple of times a week for updates. If I need to speak with you individually or discuss your grades, I may be sending you an e-mail through go.inverhills.edu. It is your responsibility to regularly check this e-mail. **If you miss information or opportunities because you did not read your e-mail, there will be no chance to make it up.** If you prefer to use a different e-mail address, then it is your responsibility to change your e-mail contact information under Profile on D2L, otherwise it will default to the go.inverhills.edu account.

If you need to contact me, I would encourage you to e-mail me or stop by during my office hours. You can leave me a voice mail, but e-mail will get you a quicker response and is my preferred method of communication. I am only on campus Mondays, Wednesdays and Thursdays. I may also not be able to respond to an e-mail sent over the weekend until Monday. I will respond to all e-mails and discussion board posts within 24-48 hours (usually less) Monday-Friday. I will grade all activities and exams and post grades within 1-2 days of the due date (usually sooner).

## Technology:

- 1) To watch the Video Lectures and take your online quizzes, you will need daily access to a **high-speed internet connection** (DSL, cable modem, or equivalent).
- 2) You may need to **upgrade to the latest version of Windows Media Player** in order to view my Video Lectures. You can download it by visiting [www.microsoft.com/windows/windowsmedia/player/11/default.aspx](http://www.microsoft.com/windows/windowsmedia/player/11/default.aspx)
- 3) **If you have a PC, then you should be able to play the Windows Media Video (wmv) lectures. If you have a Mac, then you will need to play the Flash format videos.** Both formats can be found on D2L. If you are experiencing any trouble getting these videos to work through D2L, you can also access the video lectures from my faculty webpage: [http://faculty.inverhills.edu/cnaught/video\\_lectures.htm](http://faculty.inverhills.edu/cnaught/video_lectures.htm) (both formats are available). Otherwise, be prepared to find a PC computer that you can use for watching the Video Lectures. Under Content on D2L you will find a document called "Help! I can't get the video lectures to work!" with suggestions for what to do if you can't get the Video Lectures to work (no matter what kind of computer you have).
- 4) You may want **access to a screen capture program like Jing** in order to more easily post HW questions on the D2L Discussion Board.
- 5) You need to **have a back-up plan** in case your main computer access is not available. Make sure that you know of a library, coffee house, friend, computer lab, or some other source where you can get online to access course materials and take tests. **Internet disruptions or computer malfunctions are NOT acceptable excuses for missing deadlines.**

## Technical Assistance:

- 1) For issues with D2L, go.inverhills.edu e-mail, or login and password information, visit the Inver Hills Computer Lab (1<sup>st</sup> floor of the Library) and speak personally with a computer lab assistant. You can also fill out a Student Help Desk ticket at: <http://www.inverhills.edu/Technology/StudentHelpRequest.aspx>, or call the Computer Lab at 651-450-3653. The Technical Support Team strives to respond within 1 business day. For Computer Lab hours, please go to: <http://www.inverhills.edu/technology/CurrentStudents/ComputerLab.aspx>
- 2) For D2L help, you can visit the D2L Customer Helpdesk at: <https://d2l.custhelp.com/>. This site may get you a quicker response to D2L questions, especially at night or on weekends.
- 3) For issues with WebAssign, go to [http://webassign.net/user\\_support/student/](http://webassign.net/user_support/student/) for 24 hour, 7 days a week technical support. You can send an e-mail or do an online chat with a service representative.

## Attendance:

Even though no official attendance is taken, regular attendance is recommended and crucial in a mathematics class since subsequent classes are based on ideas developed in previous classes. **If you do have to miss a class, you are still responsible for learning the material that was taught in that class and for any exams, quizzes, classwork or homework missed or due the next class. YOU WILL STILL BE EXPECTED TO TAKE AN EXAM OR QUIZ ON THE SCHEDULED DAY EVEN IF YOU WERE ABSENT THE DAY BEFORE.** All make-up work needs to be completed in a timely manner at the discretion of the instructor. If an absence is unexcused, then make-up work may not be accepted.

## Other Policies:

- As a courtesy to all, please be sure that your cell phone and pager are turned off during class.
- Be on time. It is very disruptive to those around you if you come in late.
- Be courteous.
- Be in class to be successful.
- You are responsible for what happens in class whether you are in attendance or not.
- Please note that on all activities and paper-pencil Exams and Finals, I will be evaluating your **solutions**, not just your **answers**. A correct answer with no supporting work will earn little credit, but an incorrect answer with good reasoning and a small error will earn more credit. I expect that you will be showing work as completely as you can.
- Do not cheat. This implies that you are always writing up **your own work** on all HW, online quizzes, exams and finals. Any cheating will result in a zero on that quiz, exam, or homework. Other actions may be taken at the discretion of the instructor. For more information you can visit the Academic Integrity Policy or the Code of Conduct for Student Behavior (both located at <http://www.inverhills.edu/StudentResources/CollegePolicies> ).

### **Access/Accommodations:**

The current Inver Hills college policy on serving students with disabilities can be found at Access for Individuals with Disabilities (<http://www.inverhills.edu/StudentResources/CollegePolicies>) and the current MnSCU policy can be found at Access for Individuals with Disabilities (<http://www.mnscu.edu/board/policy/1b04.html>).

If you would like to request accommodations or other services because of a known or suspected disability, you should contact the Disability Services Office at:

- 1) Voice phone: 651-450-3628
- 2) Minnesota Relay Service: 1-800-627-3529
- 3) Fax: 651-450-3303
- 4) Library 224
- 5) E-mail: [tboyer@inverhills.edu](mailto:tboyer@inverhills.edu) or [assessment@inverhills.edu](mailto:assessment@inverhills.edu)
- 6) Disability Services webpage: <http://www.inverhills.edu/StudentResources/DisabilityServices.aspx>

### **Tobacco Policy:**

Smoking is prohibited in all college facilities except in designated parking lots.

### **Suggestions for successfully completing this course:**

1. Follow the Weekly Schedule; don't take weeks off from the course.
2. Start working on HW and activities as soon as possible. I have no problem with students working together to complete activities; in fact, I strongly encourage it! I expect to see many discussion board posts or questions asked in class or office hours, especially related to the activities.
3. Watch all of my Video Lectures posted on the Content page of D2L if you are not fully understanding the lecture given in class.
4. Make sure you use all of your resources to learn the course material. Read through the text; watch my Video Lectures as well as those on WebAssign; work through guided problems on WebAssign; work through suggested homework problems in the text and on WebAssign; and use the Multimedia Library on WebAssign to view sample problems, animations, video clips, etc.
5. Attend on-campus and online office hours.
6. Get help on HW and activities in the Math Center or with a free Peer Tutor. Work together with fellow students!
7. SHOW YOUR WORK on all Activities, Quizzes, Exams and the Final.
8. Take your quizzes as soon as you feel you understand the material that the quiz covers well; don't leave quizzes until the day or night before the deadline. If you are having trouble figuring out how to type in answers correctly, try doing the HW on WebAssign first.
9. **DON'T FALL BEHIND!!!** (It bears repeating!)
10. Ask for help when you need it. Use the discussion board to ask your questions – chances are good that at least a few other students have the same questions, and you will be doing them a favor by asking.