Instructor: Jean Guillaume (jean.guillaume@uri.edu)
Office Hours: TBA
Also needed: access code to WileyPlus (included in new books).

Calculator: Not required in class, and not allowed in tests; however, it is needed for some homework problems.
Prerequisite: Precalculus MTH 111 with C-, or passing a URI placement exam.

About the course: The language of science is mathematics, and calculus is an indispensable part of everyday calculations used in science, technology, engineering, mathematics, and other fields. MTH 141 is the first calculus course for students in these areas. This course will make precise and deepen your understanding of fundamental concepts such as change, limit, and rate. You will apply differential calculus to problems in the physical and biological sciences involving optimization, motion, and growth. You will also receive an introduction to integral calculus, which will be further developed in subsequent courses. At the end of the semester you will be able to calculate with and apply differential calculus concepts and methods, including limits, continuity, derivatives, optimization, integration as a limit of sums, and the Fundamental Theorem of Calculus. In addition, you will have an understanding of mathematical modeling concepts and numerical issues.

Evaluation:

- TWO EXAMS: 30 % (15 % each).
- WILEYPLUS Homework: 15%.
- CLASSWORK: 25% (combination of quizzes and in-class groupworks).
- FINAL: 30% (cumulative).

N.B. WileyPlus is a computer homework system. The system will record your answers and keep track of
your WileyPlus homework grades.

**Getting started with WileyPlus:** WileyPlus will be used for some of your homework assignments. If you took MTH 141 at URI last semester your WileyPlus registration should continue this semester. If not, you will need to register with WileyPlus using the license key that came with your textbook.

If you ARE already registered for WileyPlus from MTH141 last term, then go to http://edugen.wiley.com/ and log in with the same user name and password.

If you ARE NOT registered from last semester then you can either buy a new textbook which comes with an access code for WileyPlus and follow the instruction that come with the textbook OR you can go to www.wileyplus.com/buy and purchase a WileyPlus registration which comes with an online textbook.

If you need help registering go to http://www.wiley.com/college/twomin/stu/register.html

WileyPlus assignments will be given every week. **Due dates for WileyPlus assignments are firm, however students may submit late WileyPlus homework with a 50% penalty.**

**COURSE GOALS.** The goals of the course are:

- Provide an introduction to one-variable Calculus, which is essential to natural and mathematical sciences, engineering and other areas.

- Expose students to mathematical concepts and provide mathematical skills needed in their area of specialization

- Provide a bridge for the student from high-school or lower-division mathematics courses to upper-division mathematics.

- Help students to become effective mathematics problem solvers, specifically help them to
  - Understand concepts rather than merely mimic techniques
  - Demonstrate understanding through explanation
  - Understand the relationship between a process and the corresponding inverse process
  - Select between formal and approximate methods for solution of a problem, and make judgments about the appropriateness of the choice
  - Select the proper mathematical tool or tools for the task at hand

**TUTORING HELP:** TBA

**SPECIAL NEEDS:** Any student with a documented disability is welcome to contact the instructor as early in the semester as possible so that reasonable accommodations may be arranged (contact Disability Services for Students Office at 330 Memorial Union 401-874-2098.

**Academic Honesty, Incomplete Grade, Standards of Behavior:** URI regulations concerning these will be followed to the letter. Please, see the University Manual.

**Religious holidays:** It is the policy of the University of Rhode Island to accord students, on an individual basis, the opportunity to observe their traditional religious holidays. Students desiring to observe a holiday of special importance must provide written notification to each instructor.

**Grading disagreements:** Rarely, issues arise that may require arbitration. If such an issue does occur, try to resolve the issue with your instructor - in a professional and respectful manner--; if not satisfied, contact the Chair of the Math Department whose office is located in Lippitt 200.
**Electronic Devices:** Cell phones, ipads, ipods, etc. should be turned off during class. Excepted from this are electronic pads used for notetaking. Your instructor may tell you about other exceptions. **Texting is not allowed.**

**In class:** Please ask questions at any time. We will make an effort to clarify difficult concepts, or to explore any interesting ideas you may offer. Class participation has a positive impact on the students learning, and we encourage it.

**Tardiness, Leaving early:** If you must come in late or leave early, let the instructor know before the class.

**Major Test Makeup Policy:** Makeup exams may be scheduled in the event you are unable to attend the evening exams under the following conditions. In particular, if you must miss the exam because of a scheduling conflict, you must notify your instructor before, not after, the exam, and emergencies require you to contact your instructor within 24 hours. Note that this policy covers also make up classwork.

- If your reason for missing the exam as scheduled is (i) a University sanctioned event for which verifiable documentation can be provided (including another scheduled class), or (ii) a responsibility to an employer that cannot be rescheduled (with documentation from your employer), then you **MUST INFORM YOUR INSTRUCTOR 48 HOURS IN ADVANCE OF THE EXAM AND PROVIDE DOCUMENTATION IF REQUESTED.** Makeup exams will be scheduled after the actual exam, and preferably before the class period when exams are to be handed back, but no later than one week after the original date.

- If the reason for missing the exam as scheduled is due to (i) illness (with verifiable documentation from a medical provider), or (ii) an emergency (with appropriate documentation), then you **MUST INFORM YOUR INSTRUCTOR WITHIN 24 HOURS OF THE EXAM and provide documentation upon your return.** Failure to notify your instructor within 24 hours will result in a 0 for the exam. No exceptions. Makeup exams may be scheduled no later than a week after the original date, unless the illness or emergency precludes this, in which case the makeup exam will be given on a common date during the last two weeks of the semester.

**Test Policy:**

- You must have a URI Photo ID with you to take an exam, and show it to the proctor as you hand in your exam.

- No books, bags, papers, extra scrap paper, or anything else may be taken with you to your seat. If you bring any of these items with you, you must leave them at the front of the room.

- No calculators of any kind are permitted on exams.

- No cellphones, smartwatches, smart eyeglasses, or any electronic devices of any kind may be used or even accessible to you at any time during the exam. Earbuds and similar devices are prohibited during tests.

- Proctors will not answer any questions concerning the content of exams.

- You may not leave the room during the exam before you are done without authorization from the coordinator. If you leave the room for any reason, your exam will be collected.

- Once finished, you must hand your exam to a proctor (your instructor, if in the room) and show your URI photo ID. You are advised to bring multiple pencils to the exams, just in case. Do NOT use a pen.

Are you planning to take MTH 142 soon? Recall that a MTH142 pre-req. is C- or better grade in MTH141!
The following calendar may be subject to change(s) and adjustment(s).

<table>
<thead>
<tr>
<th>Dates</th>
<th>Sections/ Events/Exams</th>
<th>Problems</th>
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| May 21-25       | Sections 1.1, 1.2, 1.3, 1.4, 1.5 1.6 1.7, 1.8 1.9, 2.1 | (1.1) 1,2,5,7,9, 13,16,18,33, 35-38,43,53,63,67,71  
|                 |                        | (1.2) 1,2,5,7,9,10,15,16,19,29,38,40,41,43,49,55  
|                 |                        | (1.3) 1,2,3,8-12,14-17, 19,21,25,27,39,41,49,51,55,59  
|                 |                        | (1.4) 1-31 odd, 32,35,37,39,42,43,45,49,61,62  
|                 |                        | (1.5) 11,12,13,15,17,24,25,37,38,39,41,61,67,68  
|                 |                        | (1.6) 1-13 odd, 27-31 odd  
|                 |                        | (1.7) 1,3,6,7,8,11-17 odd, 23,25-28, 31,37,43,49,54,56  
|                 |                        | (1.8) 1,3,5,9,11,13,19,25,31,32,33,35,39,41-51 odd  
|                 |                        | (1.9) 1-23 odd, 27-31 odd  
|                 |                        | (2.1) 1,3,5,7,9,13,21,22,23,28  
| May 28 - June 1 | M. May 28th, no class (M.D.)  
|                 | Exam I, W. May 30th  
|                 | Sections 2.2-2.6, 3.1-3.5  
|                 | F. make up day  | (2.2) 1,3,5,12,13,21,23,29,32,34,37,52,58  
|                 |                        | (2.3) 1-13 odd, 22,23,25,29,44-47  
|                 |                        | (2.4) 1,2,5,9-15 odd, 23,27,29,31,39  
|                 |                        | (2.5) 1,3,4,5,9,11-25 odd  
|                 |                        | (2.6) 11,23-25  
|                 |                        | (3.1) 1-43 odd  
|                 |                        | (3.2) 1-25 odd  
|                 |                        | (3.3) 1-39 odd  
|                 |                        | (3.4) 1-69 odd  
|                 |                        | (3.5) 1-57 odd  
| June 4 - 8      | Sections 3.6,3.7,3.8,3.9  
|                 | 4.1,4.2,4.3  | (3.6) 1-43 odd  
|                 |                        | (3.7) 1-33 odd  
|                 |                        | (3.8) 1-13 odd, 17,18,23  
|                 |                        | (3.9) 1-13 odd  
|                 |                        | (4.1) 1-15 odd, 16-19, 23,27,34,41,43  
|                 |                        | (4.2) 1,3,5,9,11-19 odd, 23,24  
|                 |                        | (4.3) 1,5,7,8,9,11-19 odd, 23,31,36  
| June 11 - 15    | Exam II, M June 11th  
|                 | Sections 4.6.4.7, 5.1-5.4,6.1,6.1  | (4.6) 1-9 odd, 15-25 odd, 30,31,41,42  
|                 |                        | (4.7) 1-12,13-37 odd  
|                 |                        | (5.1) 1-9 odd, 10,11,25,27  
|                 |                        | (5.2) 1-15 odd, 23,24,47-53 odd  
|                 |                        | (5.3) 1,3,4,5,7,15-27 odd, 33,35  
|                 |                        | (5.4) 1,3,4,5,7,15-27 odd  
|                 |                        | (6.2) 1-33 odd  
| June 18         | Final Exam, Th June 21st  
| June 21         | Sections 6.2,6.4,3.10  | (6.2) 3-33 odd, 67-83 odd  
|                 |                        | (6.4) 5-17 odd  

Special thanks to Dr. Orlando Merino for authorizing the use of his past syllabus as a source of reference.