

# MTH 142 – Summer 2018

## Syllabus

### Instructor:

Mark Comerford

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Office Hours M, W 2-6 in Lippitt 201F

### Class Meets:

Monday-Thursday 10am-12:30pm in Swan Hall 215

### Introduction:

This second course in calculus assumes that you know and can use the basic ideas covered in MTH 141. As in MTH 141, we will approach new ideas and problems from algebraic, graphical, and numerical points of view.

### Goals and Objectives:

The goals of the course are to have you develop symbol manipulation skills, mathematical modelling skills, skills in the use of technology to treat mathematical problems, an understanding of the language of calculus, and an appreciation for the uses of calculus in the sciences.

At the conclusion of this session you should be able to:

1. Calculate integrals using a variety of algebraic and numerical techniques.
2. Solve problems in geometry, physics and probability using integrals.
3. Solve first order ordinary differential equations by graphical, numerical and algebraic techniques, and to set up mathematical models for problems in the sciences.
4. Calculate approximations to functions using the concepts of Taylor expansions.
5. Determine properties of convergence of numerical and power series.
6. Treat problems involving modeling, algebraic calculations and numerical calculations by using technology (Mathematica, graphing calculators).

**Textbook:** Calculus: Single Variable, by Hughes-Hallet et al, 7th ed., Wiley.

Also needed: access code to WileyPlus (included in new books)

**Calculator:** Not required, and not allowed in tests

**Prerequisite:** MTH141 with C- or permission of instructor.

## Exams:

Exam 1	Tuesday, May 29 – 1.5 hours
Exam 2	Monday, June 11 – 1.5 hours
Final Exam	Thursday June 21 – 2.5 hours

## Evaluation:

2 Exams	100 points each
Final Exam	200 points
Quizzes	150 points
Wiley HW	150 points
Total	700 points

Use the table above to find your percentage grade (e.g. 630/700 is 90%). Letter grades will be distributed based on the following scale:

Letter Grade	Percentage Grade
A	93.00-100.00
A-	90.00-92.99
B+	87.00-89.99
B	83.00-86.99
B-	80.00-82.99
C+	77.00-79.99
C	73.00-76.99
C-	70.00-72.99
D+	67.00-69.99
D	60.00-66.99
F	59.99 and lower

**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:** Cheating is defined in the University Manual section 8.27.10 as *the claiming of credit for work not done independently without giving credit for aid received, or any*

*unauthorized communication during examinations* (of course, this includes use of the “internet”). Students are expected to be honest in all academic work. The resolution of any charge of cheating or plagiarism will follow the guidelines set forth in the University Manual 8.27.10 - 8.27.20.

**Illness Due to Flu:** The nation is experiencing widespread influenza-like illness. If any of us develop flu-like symptoms, we are being advised to stay home until the fever has subsided for 24 hours. So, if you exhibit such symptoms, please do not come to class. Notify me via email of your status, and we will communicate through the medium we have established for the class. We will work together to ensure that course instruction and work is completed for the semester.

The Centers for Disease Control and Prevention have posted simple methods to avoid transmission of illness. These include: covering your mouth and nose with tissue when coughing or sneezing; frequent washing or sanitizing your hands; avoiding touching your eyes, nose, and mouth; and staying home when you are sick. For more information please view [www.cdc.gov/flu](http://www.cdc.gov/flu) or [flu.gov](http://flu.gov). URI Health Services web page, [www.health.uri.edu](http://www.health.uri.edu), will carry advice and local updates.

**Incomplete Grade:** URI regulations concerning incomplete grades will be followed to the letter. See sections 8.53.20 and 8.53.21 of the university manual.

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

If you ARE already registered for WileyPlus, your code may still work! 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](http://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 for up to 80% credit.

**Tutoring help:** There is free walk-in tutoring available on both the Providence and Kingston campuses. I will post the schedules on Sakai.

**Standards of Behavior:** Students are responsible for being familiar with and adhering to the published "Community Standards of Behavior: University Policies and Regulations" which can be accessed in the University Student Handbook. Behavior that persistently or grossly interferes with classroom activities is considered disruptive behavior and may be subject to disciplinary action. Such behavior inhibits other students' ability to learn and an instructor's ability to teach. A student responsible for disruptive behavior may be required to leave class pending discussion and resolution of the problem and may be reported to the Office of Student Judicial Affairs for disciplinary action.

**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 according to the procedure set forth in Sections 8.51.11 & 8.51.12 of the University Manual ( <http://www.uri.edu/facsen/8.50-8.57.html> )

**Expectations:**

1. You are expected to attend every lecture, and to submit your work on time.
2. It is your responsibility to communicate clearly in writing up solutions for homework, quizzes, and exams. Your results must display your understanding well and be written in a correct, complete, coherent, and well organized fashion. The rules of language still apply in mathematics, and they apply even when symbols are used in formulas, equations, etc. Precise communication and neatness count!
3. The rapid pace of the class requires that you spend time every day doing homework, reviewing notes, reading the textbook, and working out extra problems, all in addition to the time spent in class.

**Exam 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.

- 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.

**Late Work Policy:** Late work in WileyPlus will have a 20% penalty, and must be submitted before the last day of class.