## SLN: 11125, 11126

Disclaimer: All items on this syllabus are subject to change. Any in-class announcement, verbal or written, is considered official addendum to this syllabus.

<table>
<thead>
<tr>
<th>Instructor: Sergey Nikitin</th>
<th>Office: PSA 436</th>
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<tbody>
<tr>
<td>Telephone:</td>
<td>Office Hours: T. Th. 12pm-1pm</td>
</tr>
<tr>
<td>Instructor Web Page:</td>
<td>E-mail: <a href="mailto:nikitin@asu.edu">nikitin@asu.edu</a></td>
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### Prerequisites:
MAT 265 or MAT 270 (Calculus I) with a grade C or better.

### Textbook:
*Essential Calculus, Early Transcendentals* by James Stewart, Thomson (Brooks/Cole)

### Calculators:
A graphing calculator (e.g. TI83 or Casio CFX-9850GB Plus) is recommended. Graphing calculators which perform symbolic manipulation (e.g. TI89, TI92, Casio FX2 or 9970G) will not be allowed for tests or quizzes.

### TESTING CENTER:
The Mathematical & Statistical Sciences Testing Center is in PSA 21 (basement of PSA). To be admitted to the Testing Center each student must have a valid ASU Sun Card. For Testing Center Hours and Policies see:
[http://math.asu.edu/TestingCenter](http://math.asu.edu/TestingCenter)

### COURSE POLICIES:
Students are responsible for assigned material. Students are responsible for material covered in class whether or not it is in the text. Working regularly on assigned problems and *attending class* is essential to success. Expect to spend at least 6-10 hours weekly on homework. You are expected to read the text, preferably before the material is covered in class. Quizzes are given randomly and frequently reflect material that has recently been discussed in class. **No late HW will be accepted and no make-up quizzes/in-class activities will be given.** Make-up exams are at the discretion of the instructor and only in case of documented emergency. In any case, no make-up exams will be given unless the student has notified the instructor before the test is given. Messages may be left in my office, at the main office (965-3951) or through email (recommended).

### ACADEMIC DISHONESTY!:
In the “Student Academic Integrity Policy” manual, ASU defines “Plagiarism [as] using another's words, ideas, materials or work without properly acknowledging and documenting the source”. Students are responsible for knowing the rules governing the use of another's work or materials and for acknowledging and documenting the source appropriately. You can find this definition at:
[http://www.asu.edu/studentaffairs/studentlife/judicial/academic_integrity.htm](http://www.asu.edu/studentaffairs/studentlife/judicial/academic_integrity.htm)

Academic dishonesty, including inappropriate collaboration, will not be tolerated. There are severe sanctions for cheating, plagiarizing and any other form of dishonesty.

### ATTENDANCE:
Attendance is mandatory! Your instructor reserves the right to take attendance and to incorporate your attendance as part of your overall grade. **For classes that meet two days a week, the maximum number of absences is four. For classes that meet three days a week, the maximum number of absences is six. For classes that meet once a week (recitations), the maximum number of absences is two.** Students who exceed the number of allowed absences will receive a grade of **EN.**
<table>
<thead>
<tr>
<th>Week of</th>
<th>Sections Covered</th>
<th>Test Dates &amp; Holidays</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/07</td>
<td>5.1 - 5.4: INTRO. &amp; REVIEW</td>
<td>Emphasis on sects. 5.3 &amp; 5.4</td>
</tr>
</tbody>
</table>
| 01/14  | 5.5: Substitution  
6.1: Integration by Parts | |
| 01/21  | 6.2: Trig. Integrals & Substitution  
6.3: Partial Fractions | MLK Day Observed – 1/21 |
| 01/28  | 6.4: Integration with Tables & CAS  
6.5: Numerical Integration | |
| 02/04  | 6.6: Improper Integrals  
7.1: Areas between curves | TEST 1 WEEK  
(See Tests Schedule below) |
| 02/11  | 7.2: Volumes (Slicing)  
7.3 Volumes (Cylindrical Shells) | |
| 02/18  | 7.4: Arc Length  
7.5: Applications to Physics & Engineering (Work done by a force) | |
| 02/25  | 8.1: Sequences  
8.2: Series | |
| 03/04  | 8.4: Other Convergence Tests (Ratio Test)  
8.5: Power Series | TEST 2 WEEK  
(See Tests Schedule below) |
| 03/04  | OMIT: Alternating Series & Root Test | |
| 03/11  | Spring Break – March 10 – March 17 | |
| 03/18  | 8.6: Representing functions as Power Series  
8.7: Taylor & Maclaurin Series | |
| 03/25  | 8.8: Applications of Taylor Polynomials  
9.1: Parametric Curves | |
| 04/01  | 9.2: Calculus with Parametric Curves | |
| 04/08  | 9.2: Calculus with Parametric Curves  
9.3: Polar Coordinates | TEST 3 WEEK  
(See Tests Schedule below) |
| 04/15  | 9.3: Polar Coordinates | |
| 04/22  | 9.4: Areas & Lengths in Polar Coordinate | |
| 04/29  | REVIEWS | Tu. 04/30 Last Day of Classes |

| Grade Assignment | | |
|------------------|------------------|
| A+               | 97% +            |
| A                | 93% – 96.99%     |
| A–               | 90% – 92.99%     |
| B+               | 87% – 89.99%     |
| B                | 83% – 86.99%     |
| B–               | 80% – 82.99%     |
| C+               | 77% – 79.99%     |
| C                | 70% – 76.99%     |
| D                | 60% – 69.99%     |
| E                | < 60%            |
### Three Chapter Tests to be taken in the Testing Center.

| Test 1: MWF & MW Classes will be tested on Wed 02/06 & TTh Classes will be tested on Th, 02/07. | 60% |
| Covers sections 5.5 - 6.5 | |

| Test 2: MWF & MW Classes will be tested on Wed 03/06 & TTh Classes will be tested on Th, 03/07. | |
| Covers sections 6.6, 7.1, 7.2, 7.4, 7.5, 8.1, 8.2 | |

| Test 3: MWF & MW Classes will be tested on Wed 04/10 & TTh Classes will be tested on Th, 04/11. | |
| Covers sections 8.4 - 8.8, 9.1, 9.2 | |

### Exams Policies: Your calculator memory may be randomly viewed during any exam and will be cleared if anything suspicious is written therein. The Instructor has the right to regard finding suspicious material in your calculator memory as cheating. Makeup exams are given at the discretion of the instructor and only in the case of verified medical or other emergency, which must be documented. The instructor must be notified before the test is given. Call the instructor or the Math Department Office (480-965-3951) and leave a message or directly notify your instructor.

### Homework will be assigned on Webwork an on-line homework program that gives students instant feedback on their answers. The URL is [http://webwork.asu.edu](http://webwork.asu.edu).

### Quizzes/In-class Activities. Extra credit

| The (common) final exam will be on Thursday, May 2nd from 7:10 to 9:00pm. Your instructor will announce the location once it has been set. The final exam is NOT given in the math testing center, or in the regular classroom. | 30% |
| The final is comprehensive. There will be no make-ups given for the final, and no finals will be rescheduled for personal reasons, including non-refundable airplane tickets | |

- It is a student’s responsibility to verify that they have in fact withdrawn from a class.
- Your instructor cannot tell you or discuss your grades by email.
- Please schedule an appointment to see me during office hours if you have a disability that will require accommodations in this class.
- To qualify for disability accommodations at ASU, students must qualify for services through the Disability Resource Center (DRC), which is located on the 1st floor of the Matthews Center Building. 480.965.1234 (V), 480.965.9000 (TTY). Please complete this process as soon as possible.

### Studying for the class:

While diligent, timely completion of the online homework assignments is necessary to master procedural skills, this alone is usually insufficient to gain conceptual understanding.

To master the concepts, you must

- review and study your class notes and/or the textbook thoroughly with the goal to understand the connections between the concepts.
- create your own lists (or perhaps 3x5 cards) of definitions and theorems and commit them to memory like you would do with vocabulary in any language.
- take the in-class activities seriously and complete all the activities.

You must do all this continuously throughout the semester. You must have learned the definitions and theorems covered in each class session and started the corresponding section of the online homework by the time of the next class session. Failure to know the material covered in lectures will result in your inability to follow subsequent lectures, and the difference between where you are in your understanding and where you should be will be compounded with each lecture.

Relying on “just in time” cramming for exams is an ineffective study technique and will virtually guarantee failure in the class.

Tutoring is available at the **Math Tutor Center in PSA 116** and at the **Engineering Tutor Center, ECF 102**.

The math tutoring center located in PSA 116 is open for tutoring throughout the week. Their hours of operation are:
- Monday-Thursday from 8:00 AM until 8:00 PM
- Fridays from 8:00 AM until 3:00 PM
- Sundays from 1:00 PM until 6:00 PM.

The **ASU Math Community Center** in PSA 303 is an excellent place to get help for the class. The MCC is open Monday to Friday, 10am to 7pm, starting on 9/4/2012.

**ASU Learning Resource Center (LRC):** The LRC, [http://asu.edu/lrc](http://asu.edu/lrc) provides counseling, tutoring in math (and many other subjects), supplemental instruction, and other types of support to students. LRC resources are available in many residence halls and in the Memorial Union, Room 14. See the LRC web page for further information.

**Classroom behavior**

Classroom disturbances, including but not limited to: arriving late, talking in class and using cellular devices are not tolerated. Each student is expected to show respect for every student registered in the course.

An instructor may withdraw a student from a course when the student's behavior disrupts the educational process under USI 201-10


Students are required to adhere to the ABOR Student Code of Conduct:

[http://www.asu.edu/studentaffairs/reslife/outreach/abor_code.htm](http://www.asu.edu/studentaffairs/reslife/outreach/abor_code.htm)
Departmental and University Policies and Procedures

The grade of Incomplete: A grade of incomplete will be awarded only in the event that a documented emergency or illness prevents the student who is doing acceptable work from completing a small percentage of the course requirements. The guidelines in the current general ASU catalog regarding a grade of incomplete will be strictly followed.

Instructor-Initiated Drop: At the instructor's discretion, any student who has not attended class during the first week of classes may be administratively dropped from the course. However, students should be aware that non-attendance would NOT automatically result in being dropped from the course. Thus, a student should not assume they are no longer registered for a course simply because they did not attend class during the first week. It is the student's responsibility to be aware of their registration status.

Final Exam Make-up Policy: The final exam schedule listed in the Schedule of Classes will be strictly followed. Exceptions to the schedule and requests for make-up examinations can be granted only by the Department Chair, Associate Department Chair or the Director of First Year Mathematics, and for one of the following reasons:

1. Religious conflict (e.g., the student celebrates the Sabbath on Saturday)
2. The student has more than three exams scheduled on the same day as the math final
3. There is a time conflict between the math final and another final exam.

Incomplete: If there is a last-minute personal or medical emergency, the student may receive a grade of Incomplete and make up the final within one calendar year. The student must provide written documentation and be passing the class at the time to receive an Incomplete. Make-up exams will NOT be given for reasons of a non-refundable airline tickets, vacation plans, work schedules, weddings, family reunions, and other such activities. Students should consult the final exam schedule before making end-of-semester travel plans. *The Dean of the student’s college must approve any exceptions to these rules.*

Honor Policy: The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the University or other sanctions as specified in the University Student Academic Integrity Policy. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism or facilitating such activities.

The grade of XE: A grade of XE is reserved for "failure for academic dishonesty." The grade goes on the student's transcript; the student needs to petition to have it removed after 1 year.

The grade of EN: A grade of EN is reserved for "failure due to excessive absences." The grade goes on the student's transcript.

Ethics: It's highly unethical to bring to your instructor's attention the possible impact of your mathematics grade on your future plans, including graduation, scholarships, jobs, etc. The instructor may exercise an option to withdraw you from the course if they think you are compromising the ability to assess your work independently of any other consideration. Students found to be involved in academic dishonesty will be removed from the class and a grade of E for the course will be submitted to the registrar. The student will be advised to repeat the course with another professor, possibly at another institution. This is least action taken. Further, more serious actions may be taken if the situation indicated that such actions are appropriate. We will act very harshly against cheating during Quizzes or Exams.

*This syllabus is tentative and should not be considered definitive. The instructor reserves the right to modify it (including the dates of the tests) to meet the needs of the class. It is the student responsibility*
to attend class regularly and to make note of any change.