Syllabus
Summer Semester, 2018
MATH 2644, Calculus II
MWF, 10:00 AM–11:50 AM
T, 11:00 AM–12:40 PM
Boyd Building, Room 302


Instructor:  Dr. Mark Faucette

Office:  Boyd Building 323

Phone:  My office phone number is 678-839-4133. Call and leave a message on my answering machine. I screen my phone calls, so make sure you leave a message.

E-Mail:  My e-mail address is faucette@westga.edu.

The Web:  My web page is at URL [http://www.westga.edu/~faucette/](http://www.westga.edu/~faucette/). The full course syllabus is located on my web site and can be downloaded as a pdf file. It is the student’s responsibility to download and/or to print the syllabus and to follow it.

Office Hours:  My office hours are

- MWF, 9:00–10:00 AM
- T, 9:00–11:00 AM

I do not hold office hours during final exam week.

Required Equipment:  The following is required for this course:

- A graphing calculator is required for this course. Graphing calculators equivalent to the TI-83, 84, 85, and 86 will be allowed on the tests and the final examination, as will scientific calculators. The TI-89 and other equivalent calculators will **not** be allowed. You must have your calculator with you every class day.

Common Language for Course Syllabi:  All Students Please Note!

For important policy information, i.e., the UWG Honor Code, Email, and Credit Hour policies, as well as information on Academic Support and Online Courses, please review the information found in the Common Language for Course Syllabi documentation at

[http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf](http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf)

It contains important material pertaining to your rights and responsibilities in this class. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.
Grading Policy

Participation (100 points) Your participation in class—which includes quizzes—will count one hundred points.

Tests (600 points) There will be three tests, each counting two hundred points.

Final Examination (300 points) There will be one comprehensive final examination counting three hundred points.

At the end of the semester, the following grading scale will be used:

- 1000 points is the total number of points possible.
- A total of 900–1000 points earns an A.
- A total of 800–899 points earns a B.
- A total of 700–799 points earns a C.
- A total of 600–699 points earns a D.
- A total below 600 points earns an F.
Expectations

Attendance and Classroom Decorum: You are expected to attend class every class period. Class time is at a premium, so it is imperative that it be used wisely. You are not allowed to come to class late or to leave early. You may not converse with other students during class time without my permission. I will allow some time for questions at appropriate points during the lecture, but you may not interrupt the lecture with questions. If you disrupt the educational atmosphere of the class, I will ask you to leave. If you miss class for any reason, it is your responsibility to get the lecture notes from a classmate, read the text, and do the homework.

Technology: With the exception of the calculator required above, all technology is banned from the classroom. This includes, but is not limited to, all iPads, iPods, cell phones, and laptop computers. The only exception to this policy is that you may use an electronic pen and a notebook computer (e.g. an iPad) in order to take notes in the course, provided you use it for nothing else. Otherwise, if you are found to have an item of technology within view during class, you will be asked to leave class.

Course Content: The course will cover the topics listed on the attached lecture schedule.

Reading Assignments: You are responsible for reading and understanding the text before it is covered in class through lecture. The lectures during class time will supplement, not replace, the reading of the text. Since class time is limited, only a limited number of examples can be given in class. You can find a large number of examples worked completely in the text. If you are diligent, you will find these examples a great help in completing the homework assignments and earning a satisfactory grade at the end of the semester.

Lecture: The primary method of classroom instruction will be by lecture during class time. The class time will be divided between lectures on new material, working problems at the board, and assessment. It is extremely important that you attend class regularly. You are responsible for all the material presented in the lectures, regardless of attendance. If needed, students can obtain supplementary assistance from the Mathematics Tutoring Center.

Extra Credit: There is no extra credit for any reason. All points must be earned on participation, quizzes, tests, and the final examination. I do not “curve” scores. That, too, is extra credit. You get the points you earn.

Make-Up Work: There are no make-up grades for any reason. Students having an unexcused absence on the day of a quiz or test will receive a grade of zero for that assignment. Students having an excused absence on the day of a quiz will have their quiz average entered for the missed grade. Students having an excused absence on the day of a test will have their test average entered for the missed grade. In the case of a test, this may only be done once. Absences must be excused before they occur except in extraordinary cases, such as active military duty, jury duty, or hospitalization. Being sick, short of being hospitalized, is not an excuse. If you anticipate being absent from class for a religious holiday, it is your responsibility to notify me in advance.

Homework: It is absolutely essential for you to do the homework in order to learn the material. Homework is assigned from the text book from each section covered. You are expected to do all the homework in a timely manner.

Quizzes: There will be quizzes administered without warning periodically covering the assigned homework. It is your responsibility to be in class to take these and to have completed the homework. Problems on quizzes will be taken directly from the homework.
Tests: There will be three tests administered on Monday, June 11; Wednesday, June 20; and Friday, July 6. You will need your calculator for each test.

Midterm: The last day to withdraw with a W is Monday, June 25.

Final Examination: There will be a comprehensive final examination administered on Monday, July 23, from 10:00 AM to 12:00 PM in room 302 of the Boyd Building. You will need your calculator for the final examination.
MATH 2644 Lecture Schedule

Friday, June 1
Areas Between Curves

Monday, June 4
Volumes by Cross-Sections: Disks & Washers

Tuesday, June 5
Volumes by Cylindrical Shells

Wednesday, June 6
Work & Average Value of a Function

Friday, June 8
Integration by Parts

Monday, June 11
Trigonometric Integrals & Test 1

Tuesday, June 12
Trigonometric Integrals
and Trigonometric Substitution

Wednesday, June 13
Trigonometric Substitution

Friday, June 15
Integration by Partial Fractions

Monday, June 18
Strategy for Integration

Tuesday, June 19
Improper Integrals

Wednesday, June 20
Arc Length & Test 2

Friday, June 22
Area of a Surface of Revolution

Monday, June 25
Applications to Physics and Engineering

Tuesday, June 26
Curves Defined by Parametric Equations

Wednesday, June 27
Calculus with Parametric Curves

Friday, June 29
Polar Coordinates

Monday, July 2
Areas & Lengths in Polar Coordinates

Tuesday, July 3
Sequences & Series

Wednesday, July 4
Independence Day Holiday

Friday, July 6
Series & Test 3

Monday, July 9
The Integral Test

Tuesday, July 10
The Comparison Tests

Wednesday, July 11
Alternating Series Test

Friday, July 13
Absolute Convergence and
Ratio and Root Tests

Monday, July 16
Strategy for Testing Series & Power Series

Tuesday, July 17
Power Series & Representation of Functions as Power Series

Wednesday, July 18
Taylor & Maclaurin Series

Friday, July 20
Applications of Taylor Polynomials
<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
<th>Problems</th>
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<tbody>
<tr>
<td>6.1</td>
<td>427–428</td>
<td>#1–27 odd</td>
</tr>
<tr>
<td>6.2</td>
<td>438–441</td>
<td>#1–17 odd</td>
</tr>
<tr>
<td>6.3</td>
<td>444–446</td>
<td>#1–19 odd</td>
</tr>
<tr>
<td>6.4</td>
<td>449–451</td>
<td>#1–19 odd</td>
</tr>
<tr>
<td>6.5</td>
<td>453–454</td>
<td>#1–9</td>
</tr>
<tr>
<td>7.1</td>
<td>468–461</td>
<td>#1–49 odd</td>
</tr>
<tr>
<td>7.2</td>
<td>476–478</td>
<td>#1–49 odd</td>
</tr>
<tr>
<td>7.3</td>
<td>483–484</td>
<td>#1–29 odd</td>
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<tr>
<td>7.4</td>
<td>492–494</td>
<td>#1–45 odd</td>
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<tr>
<td>7.5</td>
<td>499–500</td>
<td>#1–51 odd</td>
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<td>7.6</td>
<td>504–505</td>
<td>#1–9 odd</td>
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<tr>
<td>7.7</td>
<td>516–519</td>
<td>#7–17 odd</td>
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<tr>
<td>7.8</td>
<td>527–529</td>
<td>#5–39 odd</td>
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<tr>
<td>8.1</td>
<td>543–544</td>
<td>#7–17 odd</td>
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<td>8.2</td>
<td>550–551</td>
<td>#5–15 odd</td>
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<tr>
<td>8.3</td>
<td>560–562</td>
<td>#1–17 odd</td>
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<tr>
<td>8.4</td>
<td>566–567</td>
<td>#1–17 odd</td>
</tr>
<tr>
<td>10.1</td>
<td>641–644</td>
<td>#1–21 odd</td>
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<tr>
<td>10.2</td>
<td>651–653</td>
<td>#1–19 odd, #29, 30, 31</td>
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<tr>
<td>10.3</td>
<td>662–664</td>
<td>#1–45 odd</td>
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<tr>
<td>10.4</td>
<td>668–670</td>
<td>#1–35 odd</td>
</tr>
<tr>
<td>11.1</td>
<td>700–702</td>
<td>#3–53 odd</td>
</tr>
<tr>
<td>11.2</td>
<td>711–714</td>
<td>#17–47 odd</td>
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<tr>
<td>11.3</td>
<td>720–576</td>
<td>#1–39 odd</td>
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<td>11.4</td>
<td>726–727</td>
<td>#3–31 odd, #37</td>
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<tr>
<td>11.5</td>
<td>731–732</td>
<td>#3–19 odd, #32–36</td>
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<td>11.6</td>
<td>737–739</td>
<td>#3–33 odd, #36, 37, 38</td>
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<td>11.7</td>
<td>740–741</td>
<td>#1–37 odd</td>
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<td>11.8</td>
<td>745–746</td>
<td>#3–31 odd, #35, 39</td>
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<td>11.9</td>
<td>751–753</td>
<td>#1–31 odd, #38, 39</td>
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<td></td>
<td></td>
<td>(in #21, 23 just find the power series)</td>
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<tr>
<td>11.10</td>
<td>765–766</td>
<td>#5–19 odd, #21, 22, 25, 27</td>
</tr>
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The penalty for violating this policy is failure in the course.

**General standard of conduct:** No student shall knowingly perform, attempt to perform, or assist another in performing any act of dishonesty on academic work to be submitted for academic credit or advancement. The term “knowingly,” as used in the preceding sentence, means that the student knows that the academic work involved will be submitted for academic advancement. “Knowingly” does not mean that the student must have known that the particular act was a violation of the University’s academic honesty policy. A student does not have to intend to violate the honesty policy to be found in violation. For example, plagiarism, intended or unintended, is a violation of this policy.

**Examples of Academic Dishonesty:** The following acts by a student are examples of academically dishonest behavior:

I. Plagiarism - Submission for academic advancement the words, ideas, opinions or theories of another that are not common knowledge, without appropriate attribution to that other person. Plagiarism includes, but is not limited to, the following acts when performed without appropriate attribution:
   A. Directly quoting all or part of another person’s written or spoken words without quotation marks, as appropriate to the discipline;
   B. Paraphrasing all or part of another person’s written or spoken words without notes or documentation within the body of the work;
   C. Presenting an idea, theory or formula originated by another person as the original work of the person submitting that work;
   D. Repeating information, such as statistics or demographics, which is not common knowledge and which was originally compiled by another person;
   E. Purchasing (or receiving in any other manner) a term paper or other assignment that is the work of another person and submitting that term paper or other assignment as the student’s own work.

II. Unauthorized assistance - Giving or receiving assistance in connection with any examination or other academic work that has not been authorized by a faculty member. During examinations, quizzes, lab work, and similar activity, students are to assume that any assistance (such as books, notes, calculators, and conversations with others) is unauthorized unless it has been specifically authorized by a faculty member. Examples of prohibited behavior include, but are not limited to, the following when not authorized:
   A. Copying, or allowing another to copy, answers to an examination;
   B. Transmitting or receiving, during an examination, information that is within the scope of the material to be covered by that examination (including transmission orally, in writing, by sign, electronic signal, or other manner);
   C. Giving or receiving answers to an examination scheduled for a later time;

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1 The content of this page is taken from the document *Academic Honesty Policy (A Culture of Honesty)*, Section 5, The University of Georgia.
D. Completing for another, or allowing another to complete for you, all or part of an assignment (such as a paper, exercise, homework assignment, presentation, report, computer application, laboratory experiment, or computation);

E. Submitting a group assignment, or allowing that assignment to be submitted, representing that the project is the work of all of the members of the group when less than all of the group members assisted substantially in its preparation;

F. Unauthorized use of a programmable calculator or other electronic device.

III. Lying/Tampering/Bribery - Bribery or giving any false information in connection with the performance of any academic work or in connection with any proceeding under this policy. This includes, but is not limited to:

A. Giving false reasons (in advance or after the fact) for failure to complete academic work. This includes, for example, giving false excuses to the Faculty Member or to any University official for failure to attend an exam or to complete academic work;

B. Falsifying the results of any laboratory or experimental work or fabricating any data or information;

C. Altering any academic work after it has been submitted, unless such alterations are part of an assignment (such as a request of an instructor to revise the academic work);

D. Altering grade, lab, or attendance records. This includes, for example, the forgery of University forms for registration in or withdrawal from a course;

E. Damaging computer equipment (including disks) or laboratory equipment in order to alter or prevent the evaluation of academic work, unauthorized use of another’s computer password, disrupting the content or accessibility of an Internet site, or impersonating another to obtain computer resources;

F. Giving false information or testimony in connection with any investigation or hearing under this policy;

G. Submitting for academic advancement an item of academic work that has previously been submitted (even when submitted previously by that student) for academic advancement, unless done pursuant to authorization from the Faculty Member supervising the work or containing fair attribution to the original work.

IV. Theft - Stealing, taking or procuring in any other unauthorized manner (such as by physical removal from a professor’s office or unauthorized inspection of computerized material) information related to any academic work (such as exams, grade records, forms used in grading, books, papers, computer equipment and data, and laboratory materials and data).

V. Other - Failure by a student to comply with a duty imposed under this policy. However, no penalty is imposed under this policy for failure to report an act of academic dishonesty by another or failure to testify in an academic honesty proceeding concerning another. Any behavior that constitutes academic dishonesty is prohibited even if it is not specifically listed in the above list of examples.
Information Sheet
(Please Print)

Name: _________________________________  Student ID#: ________________

Local mailing address: _____________________  E-mail: _____________________

Phone: _____________________  Year at UWG: _____________________

Math Background (List high school courses and any UWG courses.)

What are you taking this semester?

What is your major/proposed major?

When is your birthday?

Where are you from?