

**Syllabus**  
**Fall Semester, 2006**  
**MATH 3003, Transition to Advanced Mathematics**  
**MWF, 11:15 AM–12:10 PM**  
**Pafford Building, Room 102**

**Text:** *A Transition to Advanced Mathematics*, Sixth Edition, by D. Smith, M. Eggen, R. St. Andre, Brooks/Cole Publishing Company, 2006.

**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 [mfaucett@westga.edu](mailto:mfaucett@westga.edu).

**The Web:** My web site is at URL <http://www.westga.edu/~mfaucett/>. 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: 10:00–11:15 AM
- T: 9:00 AM–12:15 PM

I do not hold office hours during final exam week.

### **Grading Policy**

**Homework Journal (100 points)** The Homework Journal will count one hundred points.

**Tests (200 points)** There will be two tests, each counting one hundred points.

**Midterm Examination (150 points)** There will be one comprehensive midterm examination counting one hundred fifty hundred points.

**Final Examination (150 points)** There will be one comprehensive final examination counting one hundred fifty points.

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

- 600 points is the total number of points possible.
- A total of 525–600 points earns an A.
- A total of 450–524 points earns a B.
- A total of 375–449 points earns a C.
- A total of 300–374 points earns a D.
- A total below 300 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. If you disrupt the educational atmosphere of the class, I will ask you to leave. If I have to ask you to leave twice, I will withdraw you from the course. If you miss class for any reason, it is your responsibility to get the notes, read the text, and do the homework.

**Pagers and Cell Phones:** Students are not allowed to carry pagers or cell phones in the classroom unless they are set to an inaudible setting. Any student having a cell phone within view during a graded assignment will be assumed to be using it to cheat and will be turned over to the appropriate university official for disciplinary action.

**Office Hour Regulations:** In order for me to utilize my time more wisely, I require students to make appointments to see me during office hours. Appointment sheets are posted by my office door and you must sign up for an appointment at least one day in advance.

**Course Content:** The course will cover the sections of the book listed on the attached lecture schedule.

**Reading Assignments:** You are responsible for reading and understanding the text before it is covered in class. 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.

**Homework:** Homework assignments will be made frequently, and will coincide with the class lecture. The homework problems may be either examples or applications of the theory presented in class, or expansion of that theory. You may complete the homework either individually or in small groups. Working in small groups is encouraged provided that each member of the group actively contributes to a discussion of the material and to solutions of the problems. You are responsible for completing every homework assignment, regardless of class attendance. Homework will be collected each Monday except the first day of class and graded.

**Extra Credit:** There is no extra credit for any reason. All points must be earned on the homework journal, the tests, the midterm examination, and the final examination.

**Make-Up Work:** There is no make-up work for any reason. Students having an unexcused absence on the day of a graded assignment will be assigned a grade of zero for that assignment. Students having an excused absence on the day homework is due must turn in their homework prior to the absence. Students having an excused absence on the day of a test will have their test average entered for the missed grade. Students having an excused absence on the day of the midterm examination will have their final examination grade counted twice. 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 for a religious holiday, it is your responsibility to notify me *in advance*.

**The Homework Journal:** Each student is required to keep a homework journal. The homework journal shall contain every proof assigned in the homework. Other types of homework problems should not be included in the homework journal. Each proof in the homework journal should be in correct mathematical and prosaic form. That is, it should be correct in both a mathematical sense and a linguistic sense. The homework journal *must* be kept in a soft-cover three-hole folder (*not* a hard-cover three-ring binder) into which the student can add and remove looseleaf paper. The homework journal will be graded on a weekly basis.

**Tests:** There will be two tests administered on Friday, September 8, and Friday, November 10. You will need a large (8½ by 11 inches) examination booklet for each test.

**Midterm Examination:** There will be a comprehensive midterm examination administered on Wednesday, October 4. You will need a large (8½ by 11 inches) examination booklet for the midterm examination. THE LAST DAY TO WITHDRAW WITH A W IS FRIDAY, OCTOBER 6.

**Final Examination:** There will be a comprehensive final examination administered on Monday, December 4, from 11:00 AM to 1:00 PM in room 102 of the Pafford Building. You will need a large (8½ by 11 inches) examination booklet for the final examination.

### MATH 3003 Lecture Schedule

Monday, August 14	Section 1.1
Wednesday, August 16	Section 1.1 & Section 1.2
Friday, August 18	UWG's Centennial Celebration
Monday, August 21	Section 1.2
Wednesday, August 23	Section 1.3
Friday, August 25	Section 1.3 & Section 1.4
Monday, August 28	Section 1.4
Wednesday, August 30	Section 1.5
Friday, September 1	Section 1.5 & Section 1.6
Monday, September 4	Labor Day Holiday
Wednesday, September 6	Section 1.6
Friday, September 8	Test 1
Monday, September 11	Section 2.1
Wednesday, September 13	Section 2.1 & Section 2.2
Friday, September 15	Section 2.2
Monday, September 18	Section 2.3
Wednesday, September 20	Section 2.3 & Section 2.4
Friday, September 22	Section 2.4
Monday, September 25	Section 2.5
Wednesday, September 27	Section 2.5 & Section 3.1
Friday, September 29	Section 3.1
Monday, October 2	Section 3.2
Wednesday, October 4	Midterm Examination
Friday, October 6	Section 3.2 & Section 3.3
Monday, October 9	Fall Break
Wednesday, October 11	Section 3.3
Friday, October 13	Section 4.1
Monday, October 16	Section 4.1 & Section 4.2
Wednesday, October 18	Section 4.2
Friday, October 20	Section 4.3
Monday, October 23	Section 4.3 & Section 5.1
Wednesday, October 25	Section 5.1
Friday, October 27	Section 5.2

Monday, October 30	Section 5.2 & Section 5.3
Wednesday, November 1	Section 5.3
Friday, November 3	Section 6.1
Monday, November 6	Section 6.1 & Section 6.2
Wednesday, November 8	Section 6.2
Friday, November 10	Test 2
Monday, November 13	Section 7.1
Wednesday, November 15	Section 7.1 & Section 7.2
Friday, November 17	Section 7.2
Monday, November 20	Section 7.3
Wednesday, November 22	Thanksgiving Holiday
Friday, November 24	Thanksgiving Holiday
Monday, November 27	Section 7.3
Tuesday, November 28	Section 7.4
Wednesday, November 29	Section 7.4

## MATH 3003 Assignment Sheet

### HOMEWORK #1: DUE MONDAY, AUGUST 21

Problems to work but not hand in:

- Chapter 1, Section 1: #1, 2 (some), 3 (some), 4 (some), 5, 8 (some), 10 (some)
- Chapter 1, Section 2: #1 (some)

Problems to turn in:

- Chapter 1, Section 1: #2(f), (h), 6, 8(a), (e), 10(a), (d), (f), (i), (k)
- Chapter 1, Section 2: #2

### HOMEWORK #2: DUE MONDAY, AUGUST 28

Problems to work but not hand in:

- Chapter 1, Section 2: #1 (some), 2 (some), 3 (some), 4 (some), 5 (some), 6 (some)
- Chapter 1, Section 3: #1 (some), 2 (some), 5 (some)

Problems to turn in:

- Chapter 1, Section 2: #1(e), 2(e), 6(a), (d), 7, 8(j), 9(e), 13(f)
- Chapter 1, Section 3: #1(c), (d), (h), 2(c), (d), (h), 6(f), 8

### HOMEWORK #3: DUE **Wednesday, September 6**

Problems to work but not hand in:

- Chapter 1, Section 4: #1, 2, 3 (some), 5 (some), 6 (some), 7(some)
- Chapter 1, Section 5: #1, 3 (some), 4 (some), 5, 6 (some)

Problems to turn in:

- Chapter 1, Section 4: #4, 5(c), 6(b), 7(c), (k), 8
- Chapter 1, Section 5: #2, 3(g), 4(a), 6(c), 7(b), 10

### HOMEWORK #4: DUE MONDAY, SEPTEMBER 11

Problems to work but not hand in:

- Chapter 1, Section 6: #1 (some), 2 (some), 5 (some)

Problems to turn in:

- Chapter 1, Section 6: #2 (c), 3, 4, 6(b), 7(e)

HOMEWORK #5: DUE MONDAY, SEPTEMBER 18

Problems to work but not hand in:

- Chapter 2, Section 1: #1 (some), 3 (some), 4 (some), 5 (some), 6 (some), 9 (some), 13,
- Chapter 2, Section 2: #1 (some), 2 (some), 3 (some), 12 (some)

Problems to turn in:

- Chapter 2, Section 1: #6(e), 11, 14
- Chapter 2, Section 2: #1(h), 2(f), 3(i), 8, 9, 10(b), 11(a), (b), 13 (b), (c), 15(a)

HOMEWORK #6: DUE MONDAY, SEPTEMBER 25

Problems to work but not hand in:

- Chapter 2, Section 3: #1 (some), 7, 9, 10(b), 12, 13, 16
- Chapter 2, Section 4: #1, 2, 3, 4 (some), 5 (some)

Problems to turn in:

- Chapter 2, Section 3: # 1(j), 3, 4, 5(a), (b), 6(b), 8(a), (b), 11(c), 17(d)
- Chapter 2, Section 4: #6(d), 8(b), (e), (g), 9(b)

HOMEWORK #7: DUE MONDAY, OCTOBER 2

Problems to work but not hand in:

- Chapter 2, Section 5: #2, 3, 8(a)
- Chapter 3, Section 1: #1 (some), 4, 5, 6 (some), 9 (some), 10 (some)

Problems to turn in:

- Chapter 2, Section 5: #1, 4, 5(b), (c), 6, 8(b), 13
- Chapter 3, Section 1: #2, 13, 17

HOMEWORK #8: DUE **Wednesday, October 11**

Problems to work but not hand in:

- Chapter 3, Section 2: #2 (some), 3 (some), 4 (some), 5, 8, 9
- Chapter 3, Section 3: #1, 2, 3, 4

Problems to turn in:

- Chapter 3, Section 2: #2(b), (c), (e), (f), 4(a), (e), 6 (b), 7(f), (h)
- Chapter 3, Section 3: #10

HOMEWORK #9: DUE MONDAY, OCTOBER 16

Problems to work but not hand in:

- Chapter 3, Section 3: #11, 12, 13
- Chapter 4, Section 1: #1, 3, 4, 5, 6, 7, 8

Problems to turn in:

- Chapter 3, Section 3: #14
- Chapter 4, Section 1: #2

HOMEWORK #10: DUE MONDAY, OCTOBER 23

Problems to work but not hand in:

- Chapter 4, Section 1: #9, 10, 11, 12, 13
- Chapter 4, Section 2: #1 (some), 2 (some), 3 (some), 8, 12, 14, 15, 16

Problems to turn in:

- Chapter 4, Section 1: #14, 16, 17
- Chapter 4, Section 2: #4, 5, 6, 9, 10, 18

HOMEWORK #11: DUE MONDAY, OCTOBER 30

Problems to work but not hand in:

- Chapter 4, Section 3: #1 (some), 2 (some), 8
- Chapter 5, Section 1: #3, 5 (some), 11, 12, 18

Problems to turn in:

- Chapter 4, Section 3: #3, 4, 5, 6, 7, 13, 14, 15, 16
- Chapter 5, Section 1: #1, 2, 4, 6(b), 7, 9(b), 10, 17

HOMEWORK #12: DUE MONDAY, NOVEMBER 6

Problems to work but not hand in:

- Chapter 5, Section 2: #1 (some), 2 (some), 3 (some), 5 (some)
- Chapter 5, Section 3: #1, 2, 8 (some), 12

Problems to turn in:

- Chapter 5, Section 2: #6, 7, 8, 9
- Chapter 5, Section 3: #3, 4, 6, 7, 9, 11, 15

HOMEWORK #13: DUE MONDAY, NOVEMBER 13

Problems to work but not hand in:

- Chapter 6, Section 1: #1 (some), 2 (some), 3 (some), 4 (some), 5 (some), 6, 7, 14,
- Chapter 6, Section 2: #1 (some), 4 (some), 5, 6, 7, 17, 18, 19

Problems to turn in:

- Chapter 6, Section 1: #8, 9, 11, 12, 13, 15
- Chapter 6, Section 2: #2, 3, 8, 9, 10, 11, 13

HOMEWORK #14: DUE MONDAY, NOVEMBER 20

Problems to work but not hand in:

- Chapter 7, Section 1: #2, 3, 4 (some), 6, 10, 11, 12, 14
- Chapter 7, Section 2: #1, 2, 3, 4 (some), 5 (some), 11, 14

Problems to turn in:

- Chapter 7, Section 1: #1, 5, 8, 9, 13, 16
- Chapter 7, Section 2: #6, 7, 8, 9, 10, 12, 13, 15, 19

HOMEWORK #15: DUE **Friday, December 1**

Problems to work but not hand in:

- Chapter 7, Section 3: #2, 3 (some), 11, 12, 14
- Chapter 7, Section 4: #1 (some)

Problems to turn in:

- Chapter 7, Section 3: #1, 6, 7, 9, 10, 13
- Chapter 7, Section 4: #2, 3, 4, 6, 8, 9, 10

## **Academic Honesty Prohibited Conduct<sup>1</sup>**

**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:

- (a) 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:
  - (i) Directly quoting all or part of another person’s written or spoken words without quotation marks, as appropriate to the discipline;
  - (ii) Paraphrasing all or part of another person’s written or spoken words without notes or documentation within the body of the work;
  - (iii) Presenting an idea, theory or formula originated by another person as the original work of the person submitting that work;
  - (iv) Repeating information, such as statistics or demographics, which is not common knowledge and which was originally compiled by another person;
  - (v) 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.
  
- (b) 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:
  - (i) Copying, or allowing another to copy, answers to an examination;
  - (ii) 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);

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<sup>1</sup>The content of this page is taken from the document *Academic Honesty Policy (A Culture of Honesty)*, Section 5, The University of Georgia

- (iii) Giving or receiving answers to an examination scheduled for a later time;
  - (iv) 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);
  - (v) 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;
  - (vi) Unauthorized use of a programmable calculator or other electronic device.
- (c) 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:
- (i) 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;
  - (ii) Falsifying the results of any laboratory or experimental work or fabricating any data or information;
  - (iii) 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);
  - (iv) Altering grade, lab, or attendance records. This includes, for example, the forgery of University forms for registration in or withdrawal from a course;
  - (v) 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;
  - (vi) Giving false information or testimony in connection with any investigation or hearing under this policy;
  - (vii) 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.
- (d) 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).
- (e) 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#: \_\_\_\_\_

Campus mailing address: \_\_\_\_\_ E-mail: \_\_\_\_\_

Phone: \_\_\_\_\_ Year at UWG: \_\_\_\_\_

Math Background (List all math courses taken beyond the calculus sequence.)

What are you taking this semester?

When is your birthday?

Where are you from?