MATH 300: Introduction to Advanced Mathematics
Syllabus for Summer Session A of 2021

Instructor: Prof. Flavia Colonna
E-mail: fcolonna@gmu.edu
Prerequisite: Math 114.
Textbook: D. Smith, M. Eggen, R. St. Andre, *A Transition to Advanced Mathematics*, 8th ed.
Brooks/Cole, 2015. An older edition is acceptable.
Course Content: Chapters 1-5.
Course Format: I plan to post on Blackboard (BB) my lectures immediately before the lectures
using Zoom. Please, make sure to follow the recommendations below:

- Check frequently your email and any announcements posted on Blackboard. You will be
  held responsible for any missed assignment, class participation, quiz or test, even in case
  of announced rescheduling.
- Make a short list of questions you wish me to address. I will do my best to respond
  promptly.
- To be awarded participation points, please, consider submitting work to share with the
  class. As there are more than 20 students presently registered, I will have to select which
  works to make available. My hope is to give each of you an opportunity to share your
  work several times.
- I will post worksheets before each test or quiz. Make sure to work on these on your own
  before accessing the solutions, which will be posted at a later time (of course, before the
  actual test or quiz).

Tests: There will be two midterm tests and a final exam.

- The dates of the midterms are **Thu. May 27, and Tues. June 8**. Unless you receive a
  notification of a change, the exams will be posted on Blackboard at **12:00 p.m.** and you
  will be given 1 hour and 30 minutes to post your tests as a single file in PDF format.
  Make sure to have a good scanning app that allows me to read your work easily. Before
  posting, make sure the quality is good. **On top of the first page of the test include your
  GMU photo I.D.**
- The comprehensive final is scheduled for **Thu. June 17, 10:30 a.m.-1:15 p.m. On top of
  the first page of the test include your GMU photo I.D.**
- There is a **no make-up policy**. If you miss a test, your final exam will count 1½ times.
- There will be weekly class discussions on assigned homework problems that will count
  toward participation points.

Homework: You are expected to solve all recommended homework problems, but your work
will not be collected.
Percentages of final grade: Midterm tests: 60%
                                 Final exam: 30%
                                 Class Participation: 10%
Grading Scale: A+: 97-100, A: 94-96, A-: 90-93; B+: 87-89, B: 84-86, B-: 80-83; C+: 77-79,
C: 74-76, C-: 70-73; D: 60-69; F: <60.

MATH 300: Introduction to Advanced Mathematics
Summer of 2021
Homework Assignments

Section	Problems
1.1	1(a-f),2(a-c),3(a-g),4(a-g),5(a-c), 6(a,d),8(a,b),10(a-c),11(a,g,j)
1.2	1(a-e),2(for a-e of 1),3(a-d),5(a-d),6(a-c),8(a-e),9(a,c),12 (a-d)
1.3	1(a-e),2(for a-e of 1),3(a-c),5,6(a-c),8(a-e),9(a-d),10(a-e)
1.4	2(b),3,5(a,b),6(a-c),7(a-e),8,9(a,b)
1.5	2(a-c),3(a-d),4(a,d),5(a),6(a,b),7(a),9
1.6	1(a-e),2(a,b),4,5(a-d),6(a,b)
1.7	1(a-e),2(b),3(a-c),5(a,b),6(a),7(a),9(a)
2.1	2,4(a-e),5(a,b,i-l),7,8, 9,10,13,14(a,d),15(a-d),16,17(b,d,f)
2.2	1(a-e),2(a-e),3(a-g),4,5,6(a-c),10(a-c),11(a-c),12(a-c),13(a-c),16(a,b)
2.3	1(a-f),2(for a-f of 1),7(b),9(a,d),12(a,b),17
2.4	1(a-c),2(a,b),4(a,b,d,g),5(a-e,m,q),6(a,b)
2.5	3,6(a,b),7(a,b),12
2.6	1(a,b),2(a,c,e),4(a,b),6,9(a,b),14,15(a,b),21(d)
3.1	2(a,b),3(a,c),6(a,b),7(a,c,e,g),8(a-d),10(a-d)
3.2	1(a-e),2(a-d),4,5,6(a-c,g),8(a-c),9(a,b),10(a,b)
3.3	2(a-c),4(a-d),7(a-c),8
3.5	1(a-c,f),2,4,5,7,9,10(a,b),11(a,b)
4.1	1(a-e),3(a-e),4(a,b),8,9(a-c),11(a),13
4.2	2(a-e),4(a),5(a-d),8,14(a-c),15(a),16(a,b)
4.3	1(a-f),2(for a-f of 1),4,9(a-c),10(a,b),11,12(a,b),13(a,b),14(a-b)
4.4	1(b,c,e),2(a-c),3(a,c,d),5(b),7(b,c)
4.5	1,3,5,7,10(b,c),12(a,e),14(c)
5.1	2,3(b-d),7,9,11(a,b),12,16
5.2	2(b,c),3(c-f),4(a-d),5(a-c),7(a-e)
5.3	8,9(b-e),10(a-c),12(a),14(a)
5.4	1,3,4(a-c),6(a,c),9(a-c)