



# SYLLABUS

## Fall 2019

Department of Mathematical Sciences

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### **Analytic Geometry and Calculus II (Math 114-003)**

**Instructor:** Sean Lawton  
**Office:** Exploratory Hall 4413  
**Office Hours:** MW 1:00-2:00pm  
**Phone:** 703 - 993 - 4269  
**Email:** slawton3@gmu.edu

**Lectures:** 7:30 am - 9:20 pm, MW, Exploratory Hall L004

**Teaching Assistant (TA):** Cigole Thomas

**Required Text:** *Thomas' Calculus: Early Transcendentals, Single Variable*, 14th Edition. Please note that MyMathLab access code is *not* required (although it is encouraged).

**Prerequisites:** C or better in MATH113 or specified score on the Math Placement Test.

**Course Description:** Over the term we will learn about methods of integration, conic sections, parametric equations, infinite series, and power series (Chapters 6-11).

**Exams:** Tests must be taken on the given dates. There will be *four* exams during the semester and a comprehensive final exam at the end of the term. NO make-up tests will be given. Calculators are *not* allowed on exams. You need to have your GMU ID to take exams.

**Grading:** Your grade for the course will be calculated based on the four exams (400 points), and a Final Exam (200 points). Your course percentage will be your total *earned* points divided by 6.

The grading scale will be based on: A: 90-100%; B: 80-89%; C: 70-79%; D: 60-69%; F: below 60% .

**Bonus Points:** Although MyMathLab homework is not required, you will earn bonus points by doing the problems correctly. Likewise, bonus points will be rewarded for attendance/participation in recitation. Precisely, you can earn up to 5% bonus for each of MyMathLab and recitation attendance/participation.

Example: Student A earns 76% average on all exams and the final (this usually is a C). Student A also earned 95% in MyMathLab and 90% in recitation. Thus Student A's final percentage is  $76 + .95(5) + .9(5) = 85.25$ , which is a B.

Example: Student B earns 90% average on all exams and the final but did not do any MyMathLab nor came to recitation (0% for both). Student B still earns an A with a final percentage of  $90 + 0 + 0 = 90$ .

**Homework:** Homework will be assigned from every section we cover (from the book). Test questions will be based on assigned homework from the book. Homework will *not* be collected. We will go over some assigned homework in lecture. Additionally there will be problems similar to the assigned homework from the book assigned in MyMathLab. The link will be in Blackboard.

**Electronic Devices (such as laptops, cell phones, etc.):** Please be respectful of your peers and your instructor and do not engage in activities that are unrelated to class. Such disruptions show a lack of professionalism and may result *penalties*.

**Disability statement:** If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Resources at 703.993.2474, <http://ods.gmu.edu> . All academic accommodations must be arranged through that office.

**Tutoring Center:** The Math Tutoring Center is located in the Johnson Center Room 344. Help is available on a walk-in basis. For hours of operation see: <http://math.gmu.edu/tutor-center.php>

**University Honor Code:** You are expected to follow the GMU Honor Code: <https://oai.gmu.edu/mason-honor-code/>

**Diversity:** You are expected to behave in accordance of the GMU Diversity Statement: <http://ctfe.gmu.edu/professional-development/mason-diversity-statement/>

**Privacy:** Students must use their MasonLive email account to receive important University information, including messages related to this class. See <http://masonlive.gmu.edu> for more information.

**Tentative Lecture (MW) Calendar (HW might be updated as semester progresses)**

<b>Date</b>	<b>Lecture Topic</b>	<b>Homework</b>
8/26/19	Introduction, 6.1	6.1: 11, 17-27, 41-46, 55
8/28/19	6.1, 6.2	6.2: 5-12, 24abc
9/2/19	<b>No Class: Labor Day</b>	
9/4/19	6.3, 6.4	6.3: 1, 2, 7-14, 16 6.4: 13-21
9/9/19	6.4, 6.5	6.5: 3-8, 15-20
9/11/19	7.1, 7.2 <i>Exam 1 Reveal</i>	7.1: 1-30 7.2: 9-18, 23, 29, 30, 47
9/16/19	7.2, 7.3	7.3: 13-22, 41-44, 51-54
9/18/19	<b>Exam 1: 6.1-6.5, 7.1-7.3</b>	
9/23/19	8.1, 8.2	8.1: 1-41 odd 8.2: 1-29 odd
9/25/19	8.3, 8.4	8.3: 3-19 odd, 25, 27, 29, 33-47 odd 8.4: 1-14

9/30/19	8.4, 8.5	8.5: 1-31 odd
10/2/19	8.7, 8.8 <i>Exam 2 Reveal</i>	8.7: 1-8 8.8: 1-15 odd
10/7/19	<b>Exam 2: 8.1-8.5, 8.7-8.8</b>	
10/9/19	9.1, 9.2	9.1: 1-4, 15-18 9.2: 1-19 odd
10/14/19	<b>No Class: Fall Break</b>	
10/15/19	9.2, 9.3	9.3: 1, 2, 13-16
10/16/19	10.1, 10.2	10.1: 13-29 odd, 31-99 odd 10.2: 1-21 and 31-75 odd
10/21/19	10.2, 10.3	10.3: 1-45 odd
10/23/19	10.3, 10.4 <i>Exam 3 Reveal</i>	10.4: 1-55 odd
10/28/19	10.4, 10.5	10.5: 1-45 odd
10/30/19	<b>Exam 3: 9.1-9.3, 10.1-10.5</b>	
11/4/19	10.6, 10.7	10.6: 1-47 odd 10.7: 1-35 odd
11/6/19	10.7, 10.8	10.8: 1-33 odd
11/11/19	10.9	10.9: 1-29 odd
11/13/19	10.10	10.10: 1,5,9,13, 29-51 odd
11/18/19	11.1, 11.2	11.1: 1-17 odd 11.2: 1-13 odd, 25-29 odd
11/20/19	11.2, 11.3	11.3: 5-19, 27-35 and 53-59, odd
11/25/19	11.3, 11.5 <i>Exam 4 Reveal</i>	11.5: 1, 5, 9, 11, 15, 21, 23, 25

11/27/19	<b>No Class: Thanksgiving Break (11/27-12/1)</b>	
12/2/19	<b>Exam 4: 10.6-10.10, 11.1-11.3, 11.5</b>	
12/4/19	11.6 and Evaluations <i>Final Exam Reveal</i>	11.6: 9-33 odd
12/11/19	<b>FINAL EXAM</b> , 7:30 am – 10:15 pm, Exploratory Hall L004	Date and time are subject to university approval.

Calendar Links:

1. University calendar: <https://registrar.gmu.edu/calendars/fall-2019/>
2. University final exam calendar: <https://registrar.gmu.edu/calendars/fall-2019/final-exams/>
3. University religious holiday calendar: <https://ulife.gmu.edu/religious-holiday-calendar/>