# Course Syllabus: Introductory Analysis I
## McCoy College of Science, Mathematics & Engineering
## Math 4733 Section 201 Spring 2025

### Contact Information
Instructor: Dr. Dawn Slavens
Office: Pierce Hall Room 122
Office hours: Mon. 2-3 PM; Tues. 3-5 PM; Wed. 2-3 PM; Fri 11:10 AM-12 PM

Note: Office Hours are dedicated times I am available to meet with students. No appointment is needed to meet with me during my office hours. Simply come to my office and I will be there. For any student who has a conflict with above office hour times, other office hours are available by appointment. The best way to make an appointment is by sending me an email or by talking with me after class and then sending a follow-up email with the day and time we discussed for the appointment.

Office phone: (940) 397-4013
E-mail: dawn.slavens@msutexas.edu

### Class Meeting Days, Times, Location
Tuesdays and Thursdays 9:30-10:50 AM in CO 223

### Catalog Information
Description: Foundations of the calculus to include sequences, series, continuity, differentiation, and integration.
Prerequisite: Math 3233 with a C or better

### Textbook & Instructional Materials
Understanding Analysis, Second Edition, by Stephen Abbott
Publisher: Springer

### Grading
Grades will be based on the following with the weights given for each.

- In-class participation (20%)
- Submitted homework (10%)
- Quizzes (approximately two or three thirty minute quizzes) (10%)
- Exam 1 (Tuesday, March 4th) (20%)
- Exam 2 (Thursday, April 24th) (20%)
- Comprehensive Final Exam (Tuesday, May 13th, 8 AM – 10 AM) (20%)

Table 1: Total percentage points needed for final course grade

| Grade | Overall Percentage of | AND | Exam and Quiz Average of |
|-------|----------------------|-----|--------------------------|
| A | at least 85% | AND | at least 80% |
| B | at least 75% | AND | at least 70% |
| C | at least 65% | AND | at least 60% |
| D | at least 55% | AND | at least 50% |
| F | Less than 55% | | |

## Student Handbook

Refer to [Student Handbook 2024-2025](#)

Academic Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given). Additional guidelines of procedures in these matters may be found in the Office of State Rights and Responsibilities.

## Attendance Policy

Attendance will be taken at the beginning of every class. Students should arrive to class on time and remain for the entire class period. Any student who is late or who leaves early may be counted as absent and any grade given for submitted work or class participation on that day may be a 0. A student who accumulates more than two unexcused or more than four total (excused and unexcused combined) absences may be instructor dropped from the class with a grade of WF or F. Once a student has attained two absences (excused or unexcused), N additional unexcused absence will result in a $(2^{N-1})$% deduction to the student's semester course average. An absence due to illness or family emergency may be excused, provided that you can supply acceptable written evidence if required, and that you notify Dr. Slavens as soon as is humanly possible. Failure to make such timely notification will result in the absence being considered as unexcused.

If you miss class, it is your responsibility to
1. get notes and from another student for the day(s) you missed, and
2. see Dr. Slavens, or send her an email, asap to obtain any assignments (readings and assigned problems) so that when you return to class you are prepared and ready to participate. It is possible that you can obtain this information from a classmate, and while that is all good, Dr. Slavens would appreciate an email from you so that she knows you have all of the information that you need to be able to be prepared for class upon your return.

**Make-Up Exams**

Make-up exams are not generally given; however, such exams may be given for an absence that is a result of a documented medical or personal emergency for which Dr. Slavens has been informed as soon as is humanly possible. Further, the make-up will be required to be completed in a timely fashion relative to the reason it was missed AND is taken before the next class meeting. If an exam is going to be missed due to an approved university activity, the student should request, at least one week prior to the day of the exam, to take it early. No student will be allowed to make-up more than one exam.

**In-class Participation**

Exercises from the text will be assigned for students to complete and then volunteer to present to the class their solutions. Presentations will be done by writing the problem and solution on the board accompanied with a verbal explanation as you write at the board. See **Proof Writing and Presentation Tips** handout (source is sited and included on the handout). Some of these exercises will be of illustrations of examples of some mathematical statement, other exercises will be of examples that serve as counterexamples to a mathematical statement, and many exercises will be to show (prove) a mathematical statement true.

Expectations: Students are to work on the assigned problems to produce solutions of their own to as many of the assigned exercises as possible. For many of the assigned exercises (maybe all) you would have no problem finding a full solution in another textbook or online. However, the idea is for you to struggle with the ideas in the exercises and produce solutions of your own. Thus, you are not to consult other books (books that are not our textbook) or online sources when working on the assigned exercises unless Dr. Slavens specifically gives permission for certain exercises that it is okay to do so. Dr. Slavens will not lightly, nor frequently, give an okay to use other text or online sources, as she believes it is important for student learning that students work to obtain a valid solution of their own.

Human sources that you may consult when working on assigned exercises are students in your class and/or Dr. Slavens. You should not consult students that are not in your class and you should not consult other faculty members.

In the event that Dr. Slavens says it is okay to consult sources other than our textbook to help in obtaining a solution to an assigned exercise, when a student who presents a solution obtained from, or motivated by, someone else's work the student must site the source they used in obtaining the solution they present. Further, if Dr. Slavens requests a copy of the sited work, the student should provide her a copy (or if online, a link to a copy) by the next class period.

In addition to presentations of solutions to assigned exercises, another component that will factor into your in-class grade is class participation, which includes respectfully providing feedback, which may be in form of thoughtful

questions, to your classmates on the correctness of their presented work. No student should expect to be able to work all of the assigned exercises, but every student is to engage in evaluating the correctness of a presented mathematical argument. You should volunteer to present your solutions to exercises if you feel that your solution is correct and that you can explain your solution. With that said, do not expect that every solution you present will be completely mathematically correct, and that is okay.

Another component that will factor into your in-class grade is class preparation, which includes completing assigned readings so that you are able to engage in class discussions. If need be, Dr. Slavens may have short pop-quizzes to assess whether or not students are completing assigned readings.

Note: Approximately 60% of your in-class participation grade will be determined from presenting your solutions to assigned exercises. Absenteeism will result in fewer opportunities to present.

## Homework

Exercises from the text will be assigned for students to complete and submit their written solution. In addition to the exercises submitted, correct solutions to problems presented within the in-class participation component of this course may attribute positively to your homework grade.

Graded exercises will be given a "complete" or "incomplete" or "not submitted" score. A "complete" means you have submitted a solution to the exercise that Dr. Slavens has accepted as being more or less correct (in her opinion), though there still may be feedback from Dr. Slavens on improvements. An "incomplete" means that Dr. Slavens does not accept your submission as more or less correct, or your solution is more or less correct but is poorly written. A "not submitted" is recorded for any exercise assigned in which the student does not submit a solution or submits something that does not represent an adequate attempt at writing a complete solution to the exercise.

No homework exercises will be accepted late. If a score of "incomplete" is given, the student has one week to resubmit a solution. A re-submitted solution will be re-graded, and if correct, the grade on the exercise will be changed to "complete".  Only one resubmission for an exercise will be allowed. Each resubmission is to include, stapled to it, the student's original submission.

Homework exercises are due at the start of class on their due date.

Unless told otherwise, you are allowed to work with students in your class on homework exercises. However, you must write your own final solutions to the exercises you submit to be graded. If you worked closely with another student in the class on an exercise, you should indicate so on your submitted work by giving the name of the student with whom you worked.

When completing homework exercises you are not allowed to consult other textbooks or online sources.

For exercises that are to prove or show a mathematical statement is true, include incorporating the ideas within the ***tips for writing a good final draft of a proof*** handed out in class (source is sited and included on the handout).

Homework submissions must follow Dr. Slavens' submission guidelines in order to be accepted.

- Each exercise should be clearly numbered using the numbering system in the textbook. In addition, the statement of the exercise is to be included with your submitted solution.

- Exercises involving proofs should start at the top of a page of paper and your proof should be written using every other line of the paper. I need room to provide you feedback regarding your work.

- If multiple exercises are due on the same day, you may staple the pages of your work together and write your name on only the first page. Alternatively, you may write your name on each page of submitted work. If a solution to an exercise requires more than one page, the pages should be stabled together.

- Do not turn pages in with spiral edges still attached to the paper.

With regard to homework, you should be getting more exercises marked as "complete" than marked as "incomplete" or "not submitted" to pass the class.

### Electronic Devices Policy
Please turn cell phones off or place on silent prior to the beginning of class. Stored cell phones are to be placed in a bag/backpack or placed face down on your tabletop. Other electronic devices (including earbuds) must also be stored prior to the start of class. An exception is a tablet used for the sole purpose of taking notes. Students that are not compliant with this Cell Phone Policy will have their in-class grade lowered after being reminded once about this policy. Continued noncompliance of the policy will result in a referral to the Dean of Students Office and/or the student may be withdrawn from the class by the instructor. In addition, using an unauthorized electronic device (such as a cell phone, smart watch, or earbuds) during a test or quiz will result in one of the penalties listed under the academic misconduct policy given in this syllabus.

### Desire-to-Learn (D2L)
Use of the MSU D2L program is part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication

regarding assignments, examination materials, and general course information. You can log into D2L through the MSU Homepage.

## Academic Misconduct Policy

All work that you submit for this course that contributes to your course grade must be your own work. Any evidence that you submitted work that is not your own is considered an act of academic dishonesty. An act of academic dishonesty will be reported to the university and will result in one of the following academic sanctions:

- Receiving a 0 on the assignment or exam.
- Loss of a certain percentage of your overall Math 4733 grade
- Receiving an F in MATH 4733
- Receiving an F in MATH 4733 that will remain permanent on your transcript and within your MSU GPA

The university's academic dishonesty policy can be found in the student handbook on the university's website.

## Teaching and Learning During Inclement Weather Days

If campus closes due to inclement weather during a time when class is scheduled, expect me to post a reading assignment or a video lecture within D2L over the topics planned to be covered on the day of the closure.

## Services for Students with Disabilities

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please go to Disability Support Services.

## Campus Carry Rules/Policies

Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to the University's webpage at Campus Carry Rules and Policies.

Notice
Changes to the course syllabus, classroom procedures, assignment structure, and exam schedule may be made at the discretion of the instructor.