

Math 1101 - Calculus 2
Boston College Summer Session 2, 2019
June 24 - July 31
MW 9 am - 12:15 pm

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Boston College Mission Statement Strengthened by more than a century and a half of dedication to academic excellence, Boston College commits itself to the highest standards of teaching and research in undergraduate, graduate and professional programs and to the pursuit of a just society through its own accomplishments, the work of its faculty and staff, and the achievements of its graduates. It seeks both to advance its place among the nation's finest universities and to bring to the company of its distinguished peers and to contemporary society the richness of the Catholic intellectual ideal of a mutually illuminating relationship between religious faith and free intellectual inquiry.

Boston College draws inspiration for its academic societal mission from its distinctive religious tradition. As a Catholic and Jesuit university, it is rooted in a world view that encounters God in all creation and through all human activity, especially in the search for truth in every discipline, in the desire to learn, and in the call to live justly together. In this spirit, the University regards the contribution of different religious traditions and value systems as essential to the fullness of its intellectual life and to the continuous development of its distinctive intellectual heritage.

Course Description MATH 1101 is a second course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include an overview of integration, basic techniques for integration, a variety of applications of integration, and an introduction to (systems of) differential equations.

Textbooks & Readings (Required)

Single Variable Calculus (Early Transcendentals) by Stewart, Eighth Edition, Custom Edition for Boston College.

The custom edition comes with an access code for WebAssign, be careful not to discard the code. WebAssign will be needed for homework!

- For students who do want a paper book: buy the custom edition from the bookstore.
- For students who do not need a paper book: buy the WebAssign access code online; this gives access to an ebook and all the WebAssign features. Go to www.webassign.net and follow the directions.
- Careful: the custom edition comes from the eighth edition of the Stewart book, which is a new edition. Buying the full book will be more expensive than the BC custom edition.

Canvas Canvas is the Learning Management System (LMS) at Boston College, designed to help faculty and students share ideas, collaborate on assignments, discuss course readings and materials, submit assignments, and much more - all online. As a Boston College student, you should familiarize yourself with this important tool. For more information and training resources for using Canvas, click [here](#).

Course Objectives

1. The student will learn what an integral is, how to calculate it in several situations, and how to apply it in real-life situations.
2. The student will learn some basic differential equations. This has lots of applications in other subjects such as biology and physics.
3. The student will improve their ability to communicate ideas in mathematics effectively and precisely, in both written and verbal forms.
4. Students will demonstrate an appreciation of calculus applied across cultural settings and will learn the impact of culture, gender, and age in calculus as demonstrated by response to examples used in class.
5. Students will demonstrate ethical appreciation of the importance of academic integrity pertaining to mastery of calculus as demonstrated by completing their work independently.

Grading

Attendance	3%
Worksheets/Quizzes	7%
Written Homework	35%
Online Homework (WebAssign)	10%
Midterm	20%
Final Exam	25%

The undergraduate grading system for Summer Session is as follows:

A (4.00), A- (3.67) B+ (3.33), B (3.00), B- (2.67) C+ (2.33), C (2.00), C- (1.67) D+ (1.33), D (1.00), D- (.67) F (.00)

The graduate grading system for Summer Session is as follows:

A (4.00), A- (3.67) B+ (3.33), B (3.00) B- (2.67), passing but does not count toward degree C (2.00), passing but not for degree credit F (.00)

All students can access final grades through Agora after the grading deadline each semester. Transcripts are available through the [Office of Student Services](#).

Deadlines and Late Work This is a fast-paced course, and it is important to keep up with the material so as to not get behind. Thus, no late homework will be accepted unless there is an extenuating circumstance, in which case you should contact us ahead of time.

Course Assignments

- *Classwork/Worksheets:* Since we have a lot to cover in a month, this will be a fast-paced class! We'll do a considerable amount of work in class, since we'll be meeting for 6 hours each week. To keep it interesting, our class time will be divided into lecture, individual and group work, and maybe some other activities too. We will often distribute worksheets which will be submitted for a grade. We encourage students to complete the worksheets in groups.
- *Quizzes:* There will be a brief quiz each Monday morning covering the material from the previous week. Quizzes will be graded on a "check/check-plus/check-minus/incomplete" system, where a "check" or "check-plus" are both worth 100%, a "check-minus" is worth 80% and an incomplete is worth 0%. If you need to miss class on the day of a quiz, email us to make up the quiz in office hours so that you don't get a 0 on it!
- *Homework:* The university position states that students should expect to spend a minimum of 2 hours per week for every hour of instructional time, which corresponds to 12 hours of time outside class. Make sure to budget this time into your week! There will be a homework assignment due at the beginning of each class period. There will also be online homework assignments administered through WebAssign. Solutions to the written homework will be posted on Canvas after the due date. Homework grades will be based on two categories: completeness (i.e. you should complete all problems) and correctness (which will be determined by grading a subset of the assigned problems). All homework assignments should be stapled and arranged neatly. Your writing should be legible and easy to follow, your problems in order and clearly numbered. The lowest homework score will be dropped.

Exams Schedule The midterm is tentatively scheduled for Monday July 15 and the final will be on the last day of class, Wednesday July 31.

Written Work Summer Session students are expected to prepare professional, polished written work. Written materials must be typed and submitted in the format required by your instructor. Strive for a thorough yet concise style. Cite literature appropriately, using APA, MLA or CLA style per your instructor's requirements. Develop your thoughts fully, clearly, logically and specifically. Proofread all materials to ensure the use of proper grammar, punctuation and spelling. For writing support, please contact the [Connors Family Learning Center](#).

Attendance Attending class is an important component of learning. Students are expected to attend all class sessions. When circumstances prevent a student from attending class, the student is responsible for contacting the instructor before the class meets. Students who miss class are still expected to complete all assignments and meet all deadlines. Many instructors grade for participation; if you miss class, you cannot make up participation points associated with that class. Makeup work may be assigned at the discretion of the instructor. If circumstances necessitate excessive absence from class, the student should consider withdrawing from the class. *Class attendance will be taken each day and will contribute to your final grade in the course. If you are concerned about missing class, please discuss it with us.*

Consistent with BC's commitment to creating a learning environment that is respectful of persons of differing backgrounds, we believe that every reasonable effort should be made to allow members of the university community to observe their religious holidays without jeopardizing their academic status. Students are responsible for reviewing course syllabi as soon as possible, and for communicating with the instructor promptly regarding any possible conflicts with observed religious holidays. Students are responsible for completing all class requirements for days

missed due to conflicts with religious holidays.

Accommodation and Accessibility Boston College is committed to providing accommodations to students, faculty, staff and visitors with disabilities. Specific documentation from the appropriate office is required for students seeking accommodation in Summer Session courses. Advanced notice and formal registration with the appropriate office is required to facilitate this process. There are two separate offices at BC that coordinate services for students with disabilities:

- **The Connors Family Learning Center (CFLC)** coordinates services for students with LD and ADHD.
- **The Disabilities Services Office (DSO)** coordinates services for all other disabilities.

Find out more about BC's commitment to accessibility at www.bc.edu/sites/accessibility.

Scholarship and Academic Integrity Students in Summer Session courses must produce original work and cite references appropriately. Failure to cite references is plagiarism. Academic dishonesty includes, but is not necessarily limited to, plagiarism, fabrication, facilitating academic dishonesty, cheating on exams or assignments, or submitting the same material or substantially similar material to meet the requirements of more than one course without seeking permission of all instructors concerned. Scholastic misconduct may also involve, but is not necessarily limited to, acts that violate the rights of other students, such as depriving another student of course materials or interfering with another student's work. Please see the [Boston College policy on academic integrity](#) for more information.