

ACMAT 161: Calculus 1 (4 Credits)
Arrupe College, Summer 2024 (Class Number: 2345)

Course Description: A traditional introduction to differential and integral calculus. Functions, limits, differentiation, the Intermediate Value Theorem, curve sketching, optimization problem, related rates, definite and indefinite integrals, the Fundamental Theorem of Calculus, logarithm and exponential functions, applications to the natural and social sciences.

Outcomes: Students will obtain the background needed to enroll in Calculus II; This course satisfies the quantitative literacy requirement of the core curriculum.

Prerequisite: Restricted to Arrupe students. Students are eligible to enroll in the course upon successful completion of ACMAT 118 or by math placement exam.

Class Website: All necessary information will be available via Sakai, but in the event of an outage, they will also be made available at krystinmg.com/summer2024/math161

Instructor Information

Name: Krystin Manguba-Glover
(Professor MG)

Office: JFMH 312
Office Phone: 312-915-7966

Email: kmangubaglover@luc.edu

Office hours are by appointment only, either through Calendly or through email. Office hours will be held until the last day of instruction. Arrupe College Math Fellows hold daily math workshops in Maguire Hall 303. Their schedule for the semester is available in Sakai.

Course Materials

Optional Textbook: “Calculus”, by Briggs, Cochran, Gillet, Schulz, third edition, Pearson. (ISBN 13: 978-0-13-476563-1; ISBN 10: 0-13-476563-X)

Students have the option of purchasing a hard-copy of the text if they wish. Hard-copies of the text will not be available at the bookstore but can be purchased from common online sources. A hard-copy of the text is neither required nor recommended.

Additional Material: A binder or folder is recommended for keeping papers organized. A notebook (or loose-leaf paper) is needed for notes and classwork/homework. Students must have access to the internet to complete online work for this course. If there is no access to internet at home, students must plan to complete MathXL assignments at Arrupe or at another location that provides access to internet.

Homework

Written homework problems will be assigned after each class period and are expected to be completed before the following session. For written assignments, you must write down all work required to complete each problem and submit it to Professor MG in order to receive credit. Students who do a homework problem incorrectly will be given the chance to correct their work for full credit, as long as solutions have not been posted.

It is encouraged that you do practice problems on your own. You may work together on homework but the final product needs to be your own work.

In-Class Group Work

Throughout the semester, students will be given class time to complete a problem set in groups. These problems should be submitted by the end of class for credit, unless otherwise stated. If you are absent on any given day, you may visit Professor MG during office hours to make it up.

Quizzes

There will be 5 short quizzes given during the summer session. These quizzes are designed to make sure students understand basic concepts that have been covered in previous classes. Quizzes will be individual, but open-notes.

Exams

There will be two written exams given throughout this course: one midterm and one final. Exams will be given in-class and will be closed book. The final exam will be cumulative. Here are the tentative exam dates:

Midterm: Monday, June 24

Final Exam: Monday, July 22

While studying for an exam, you should work to understand the concepts being covered, not memorize problems. Showing your understanding on paper is key to receiving a good grade.

If you cannot make it to any given exam, you must contact Professor MG before, or within 24 hours after, the exam to determine if you are eligible for a make-up. There are no make-up tests for the final exam.

Grading

30% Homework

15% Group Work

10% Quizzes

20% Midterm 1

25% Final Exam

A grading curve will be applied if necessary. Accurate course grades can be found in Sakai, **not** on MathXL. Final grades will be assigned based on the Arrupe College grading scale:

A+	4.00	97–100	B+	3.33	87–89	C+	2.33	77–79	D+	1.33	67–69	F	0.00	≤ 64
A	4.00	93–96	B	3.00	83–86	C	2.00	73–76	D	1.00	65–66			
A–	3.67	90–92	B–	2.67	80–82	C–	1.67	70–72						

Academic Integrity

My assumption is that all students enrolled in this course are sincere in their commitment to ethical academic inquiry and growth through participation in a rigorous and cooperative learning community. Academic misconduct is an offense against Arrupe College and Loyola University Chicago. For a fuller articulation of Loyola's academic integrity policy, see

www.luc.edu/academics/catalog/undergrad/reg_academicintegrity.shtml

Acts of misconduct include but are not limited to:

- Cheating: The use or attempted use of any unauthorized assistance in taking a test or exam, or any other assignment.
- Fabrication: Deliberate falsification in completing an assignment.

A grade of zero will be assigned to a test or assignment where there is evidence of academic misconduct; this includes using a phone, smart watch, or other communication device when directed not to do so.

Math Homework Apps do more harm than good. If you rely on an app or website to find the answers to homework problems, it is unlikely that you will be able to successfully answer those same questions on a test. If you are struggling with homework, please come and talk to me. Arrupe has many resources for you to help you find ways to master the material. We want you to be successful in this course and into the future. Success comes with hard work, which takes time and practice.

Student Accessibility Center (SAC)

Loyola University provides reasonable accommodations for students with disabilities. Any student requesting accommodations related to a disability or other condition is required to register with Student Accessibility Center (SAC), located in Sullivan Center, Suite 117. Professors receive the accommodation notification from SAC via Accommodate. Students are encouraged to meet with their professor individually in order to discuss their accommodations. All information will remain confidential. Please note that in this class, software may be used to record class lectures in order to provide equal access to students with disabilities. Students approved for this accommodation use recordings for their personal study only and recordings may not be shared with other people or used in any way against the faculty member, other lecturers, or students whose classroom comments are recorded as part of the class activity. Recordings are deleted at the end of the semester.

For more information about registering with SAC or questions about accommodations, please contact SAC at 773-508-3700 or SAC@luc.edu

Equal Access to Education

Loyola University offers a range of resources to meet student needs and to ensure that all Arrupe students have equal access to education.

- Wellness Center: Our physical and mental wellbeing impacts our ability to do academic work. Loyola's Wellness Center offers students a range of physical and mental health services, mostly for free. See <http://www.luc.edu/wellness/>
- Arrupe's social workers, Nicole Sumida and Ernest Fernandez, are located in Maguire 216 and 218. You can also reach them by phone or email (nsumida@luc.edu, efernandez1@luc.edu, or 312-915-8945)

Title IX Services

Under Title IX federal law, “no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance.” If you or someone you know has been sexually harassed or assaulted, please use one or more of the following resources:

- The Community Coalition on Gender-Based Violence (<https://www.luc.edu/coalition/>)
- Loyola Sexual Assault Advocacy Hotline 773.494.3810 (The hotline is open Monday - Friday, 8am to 4:30pm and 24 hours on the weekend when school is in session.)
- Anonymous EthicsLine Reporting Hotline (www.luc.edu/ethicsline or 855-603- 6988)
- Campus Safety (773-508-6039)
- Center for Student Assistance & Advocacy: www.luc.edu/csaa
- The Title IX coordinator: Timothy Love; Office (773) 508-7766; tlove@luc.edu

Loyola University Chicago faculty are committed to supporting our students and upholding gender equity laws as outlined by Title IX. Therefore, if a student chooses to confide in a member of Loyola’s faculty or staff regarding an issue of gender-based misconduct, that faculty or staff member is obligated to tell Loyola’s Title IX Deputy Coordinator. The Title IX Deputy Coordinator will assist the student in connecting with all possible resources for support and reporting both on and off campus. Please visit <https://www.luc.edu/equity/titleixequitylaws/titleix/> for more information regarding the University’s response to notifications of gender or sexuality-based misconduct.

Notice of Reporting Obligations for Responsible Campus Partners

As an instructor, I am considered a Responsible Campus Partner (“RCP”) under Loyola’s Comprehensive Policy and Procedures for Addressing Discrimination, Sexual Misconduct, and Retaliation (located at www.luc.edu/equity). While my goal is for you to be able to share information related to your life experiences through discussion and written work, I want to be transparent that as a RCP I am required to report certain disclosures of sexual misconduct (such as sexual assault, sexual harassment, intimate partner and/or domestic violence, and/or stalking) to the University’s Title IX Coordinator. As an instructor, I also have a mandatory obligation under Illinois law to report disclosures of or suspected instances of child abuse or neglect.

The purpose of these reporting requirements is for the University to inform students who have experienced sexual/gender-based violence of available resources and support. Such a report will not generate a report to law enforcement (no student will ever be forced to file a report with the police). Furthermore, the University’s resources and supports are available to all students even if a student chooses that they do not want any other action taken. Please note that in certain situations, based on the nature of the disclosure, the University may need to take additional action to ensure the safety of the University community. If you have any questions about this policy, you may contact the Office for Equity & Compliance at equity@luc.edu or 773-508-7766.

If you wish to speak with a confidential resource regarding gender-based violence, I encourage you to call The Line at 773-494-3810. The Line is staffed by confidential advocates from 8:30am-5pm M-F and 24 hours on the weekend when school is in session. Advocates can provide support, talk through your options (medical, legal, LUC reporting, safety planning, etc.), and connect you with additional resources as needed. More information can be found at luc.edu/coalition or luc.edu/wellness.

****Contents of this syllabus are subject to change. Any changes will be announced and shared with students via the class website and/or email.****