

Point Loma Nazarene University

Department of Mathematical, Information and Computer Sciences

MTH413-1 Complex Analysis (3 units)
Class Time TH 2:55 pm – 4:10 pm
Location RS 13

Instructor Jesús Jiménez, Ph.D. Professor of Mathematics.
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Office Hours T R 1:15 pm – 2:30 pm or by appointment
 M 1:15 pm – 2:15 pm or by appointment

Textbook Complex Variables and Applications by J W Brown and R V Churchill, 9th edition. McGraw Hill

Exam 1 2/15/18
Exam 2 4/5/18
Final Exam 5/3/18 (Thursday) [4:30 pm — 7:00 pm]

Partial Exams Policy Make-up exams will be given only by arrangement prior to the exam scheduled date with the instructor for reasons of documented emergency.

Final Exam Policy The Final Exam is a **COMPREHENSIVE** examination. Successful completion of this class requires taking the final examination **on its scheduled day**. The final examination schedule is posted on the [Class Schedules](#) site. No requests for early examinations or alternative days will be approved.

Grade Distribution

Two partial exams @ 25 % each	50 %
Final Exam	25 %
Homework	25 %
Total	100 %

Grading Scale

	A	B	C	D	F
+		> 86%	> 76%	> 66%	
	> 90%	> 83%	> 73%	> 63%	< 59%
–	> 88%	> 80%	> 70%	≥ 59%	

Course Requirements

Co-requisite: MTH 274.

**Homework
Late Work Policy**

Homework assignments and due dates are on the appended Homework and Daily Schedule. All assignments are to be submitted/turned in by the beginning of the class session when they are due — including assignments posted in Canvas. Incompletes will only be assigned in extremely unusual circumstances.

Resources

Library, Computer Lab, Math Tutoring Center, Me.

PLNU Mission

Point Loma Nazarene University exists to provide higher education in a vital Christian community where minds are engaged and challenged, character is modeled and formed, and service becomes an expression of faith. Being of Wesleyan heritage, we aspire to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

Department Mission

The Mathematical, Information, and Computer Sciences department at Point Loma Nazarene University is committed to maintaining a curriculum that provides its students with the tools to be productive, the passion to continue learning, and Christian perspectives to provide a basis for making sound value judgments.

Course Description

Complex numbers, analytic functions, integration, series, contour integration, residues and conformal maps. Alternating Years. Offered 2017-18.

Course Learning Outcomes for MTH413

- Students will be able to demonstrate facility with analytical concepts.
- Students will be able to apply their mathematical knowledge to solve problems.

Attendance

Attendance is expected at each class session. In the event of an absence you are responsible for the material covered in class and the assignments given that day.

Regular and punctual attendance at all classes is considered essential to optimum academic achievement. If the student is absent from more than 10 percent of class meetings, the faculty member can file a written report which may result in de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university drop date or, after that date, receive the appropriate grade for their work and participation. See [Attendance Policy](#) in the Undergraduate Academic Catalog.

Class Enrollment

It is the student's responsibility to maintain his/her class schedule. Should the need arise to drop this course (personal emergencies, poor performance, etc.), the student has the responsibility to follow through (provided the drop date meets the stated calendar deadline established by the university), not the instructor. Simply ceasing to attend this course or failing to follow through to arrange for a change of registration (drop/add) may easily result in a grade of F on the official transcript.

Academic Accommodations

If you have a diagnosed disability, please contact PLNU's Disability Resource Center (DRC) within the first two weeks of class to demonstrate need and to register for accommodation by phone at 619-849-2486 or by e-mail at DRC@pointloma.edu. See [Disability Resource Center](#) for additional information. For more details see the PLNU catalog under [Academic Accommodations](#). Students with learning disabilities who may need accommodations should discuss options with the instructor during the first two weeks of class.

Academic Honesty

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. Faculty should follow and students may appeal using the procedure in the university Catalog. See [the catalog](#) for definitions of kinds of academic dishonesty and for further policy information.

Final Exam Policy

The final exam date and time is set by the university at the beginning of the semester and may not be changed by the instructor. This schedule can be found on the university website and in the course calendar. No requests for early examinations will be approved. Only in the case that a student is required to take three exams during the same day of finals week, is an instructor authorized to consider changing the exam date and time for that particular student.

Copyright Protected Materials

Point Loma Nazarene University, as a non-profit educational institution, is entitled by law to use materials protected by the US Copyright Act for classroom education. Any use of those materials outside the class may violate the law.

Credit Hour

In the interest of providing sufficient time to accomplish the stated course learning outcomes, this class meets the PLNU credit hour policy for a 4-unit class delivered over 16 weeks. Specific details about how the class meets the credit hour requirements can be provided upon request. Note that if you have an online or hybrid class then you need to provide further details of the amount of time spent in various activities. We have samples in the department.

Homework and Daily Schedule

Week	Day	Date	Section	Pages	Problems	Pages	Problems	Pages	Problems	Due Date
1	Thu	1/11/18	1, 2, 3, 4, 5, 6	4-5	1, 2, 4, 8, 11	7-8	1, 2, 3, 4,	13-14	1, 2, 8, 5, 9	1/18/18
2	Tue	1/16/18	7, 8, 9, 10, 11	16	1, 2, 4, 6, 15	23-24	1, 2, 3, 5, 10	30-32	1, 3, 4, 6, 7, 8, 9	1/23/18
	Thu	1/18/18	12, 13, 14	34-35	1, 2, ,3, 5, 6, 7	43-44	1, 2, 3, 5, 8			1/30/18
3	Tue	1/23/18	15, 16, 17							
	Thu	1/25/18	18, 19, 20	54-55	1, 2, 3, 5, 8, 11	61-62	1, 2, 3, 4, 8			1/30/18
4	Tue	1/30/18	21, 22, 23	70-72	1, 2, 3, 8					2/8/18
	Thu	2/1/18	24, 25, 26	76-77	1, 2, 4					2/8/18
5	Tue	2/6/18	27, 30, 31	79-80	2, 3, 6	89-90	1, 2, 3, 4, 6, 8			2/20/18
	Thu	2/8/18	32, 33	95-97	1, 2, 3, 4, 6, 10					2/22/18
6	Tue	2/13/18	35, 36, 37	103	1, 2, 3, 4					2/22/18
	Thu	2/15/18	Exam 1							
7	Tue	2/20/18	38, 39, 40	107	1, 2, 3, 4	111-112	1, 12	114	1	2/27/18
	Thu	2/22/18	41, 42, 43, 44	119-120	1, 2, 3, 5	123-125	1, 3, 5			2/27/18
8	Tue	2/27/18	45, 47, 48, 49	132-135	1, 2, 3, 6, 13	138-139	1, 2, 4, 5	147	1,2	3/13/18
	Thu	3/1/18	50, 51							
9	Tue	3/6/18	Spring Break							
	Thu	3/8/18	Spring Break							
10	Tue	3/13/18	52, 53	159-162	1, 2, 3, 4					3/15/18
	Thu	3/15/18	54, 55, 56, 57	170-172	1, 2, 3, 4, 5					3/20/18
11	Tue	3/20/18	58, 59	177-178	1, 4					3/22/18
	Thu	3/22/18	60, 61, 62	185-186	1, 2, 3, 6, 7, 8					4/3/18
12	Tue	3/27/18	63, 64, 65	195-197	2, 3, 10, 11					4/3/18
	Thu	3/29/18	Easter Break							
13	Tue	4/3/18	66, 67, 68	205-208	1, 2, 3, 4					4/12/18
	Thu	4/5/18	Exam 2							
14	Tue	4/10/18	74, 75, 76, 77	237-238	1, 2, 3, 4					4/12/18
	Thu	4/12/18	78, 79, 80, 81	242	1, 2	246-247	1, 4, 5, 7			4/17/18
15	Tue	4/17/18	82-83	253-254	1, 2, 7					4/24/18
	Thu	4/19/18	85, 86	264-265	1, 2, 3					4/24/18
16	Tue	4/24/18	96, 97, 98	305-306	1, 2, 3, 4, 5					5/3/18
	Thu	4/26/18	99, 100, 101	311-312	1, 2, 3, 5, 7	317	1, 2			5/3/18
17	Tue	5/1/18								
	Thu	5/3/18	Final Exam	7:00 pm						