



Department of Mathematical, Information, and Computer Sciences/School of STEM

MTH4013-1 Complex Analysis

3 Units

Spring 2026

Meeting days/times (TR 3:00 pm – 4:15 pm)

Meeting location (Rohr Science 395)

Final Exam: (Thursday, May 7, 2026, 4:30 – 7:00 pm)

Instructor Title and Name: E. Professor, Jesús Jiménez Reyes

Phone: 619-849-2526

Email: jjimenez@pointloma.edu

Office Location: Rohr Science 294

Office Hours: Tuesdays and Thursdays, 1:00 pm – 2:30 pm

PLNU Mission

To Teach ~ To Shape ~ To Send

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 is an expression of faith. Being of Wesleyan heritage, we strive 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.

Program and Course Learning Outcomes

1. Students will be able to apply their mathematical knowledge and critical thinking to solve problems.
2. Students will be able to use technology to solve problems.
3. Students will be able to speak about their work with precision, clarity, and organization.
4. Students will be able to write about their work with precision, clarity, and organization.
5. Students will collaborate effectively in teams.
6. Students will be able to understand and create arguments supported by quantitative evidence.
7. Students will understand the professional, ethical, social issues, and responsibilities with the implementation and use of mathematical models and technology.

Required Texts and Recommended Study Resources

Textbook: Complex Variables and Applications.

Authors: James Ward Brown and Ruel V. Churchill.

Publisher: McGraw Hill.

Edition: 9th.

Students are responsible for having the required course textbooks prior to the first day of class. All supplemental materials posted on this course site (including articles, book excerpts, or other documents) are provided for your personal academic use. These materials may be protected by copyright law and should not be duplicated or distributed without permission of the copyright owner.

Course Credit Hour Information

In the interest of providing sufficient time to accomplish the stated Course Learning Outcomes, this class meets the PLNU credit hour policy for a 3 units class delivered over 15 weeks. It is anticipated that students will spend a minimum of 37.5 participation hours per credit hour on their coursework. For this course, students will spend an estimated 112.5 total hours meeting the course learning outcomes. The time estimations are provided in the Canvas modules.

Assessment and Grading

Point Distribution with explanation:

Two partial exams 20% each	40%
Final Exam	30%
Weekly Homework	30%
Total	100%

Grades will be based on the following:

Grade Scale Based on Percentages

A	B	C	D	F
A [92.5-100]	B+ [87.5-90)	C+ [77.5-80)	D+ [67.5-70)	F [0-60)
A- [90-92.5)	B [82.5-87.5)	C [72.5-77.5)	D [62.5-67.5)	
	B- [80-82.5)	C- [70-72.5)	D- [60-62.5)	

Final Examination Policy

Successful completion of this class requires taking the final examination on its scheduled day. The final examination schedule is posted on the [Traditional Undergraduate Records: Final Exam Schedules](#) site. If you find yourself scheduled for three (3) or more final examinations on the same day, you are authorized to contact each professor to arrange a different time for one of those exams. However, unless you have three (3) or more exams on the same day, no requests for alternative final examinations will be granted.

Incompletes and Late Assignments

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.

Artificial Intelligence (AI) Policy

You are allowed to use Artificial Intelligence (AI) tools (e.g., ChatGPT, Gemini Pro 1.5, GrammarlyGo, Perplexity, etc.) to generate ideas, but you are not allowed to use AI tools to generate content (text, video, audio, images) that will end up in any work submitted to be graded for this course. If you have any doubts about using AI, please gain permission from the instructor.

PLNU Academic Accommodations Policy

PLNU is committed to providing equal opportunity for participation in all its programs, services, and activities in accordance with the Americans with Disabilities Act (ADA). Students with disabilities may request course-related accommodations by contacting the Educational Access Center (EAC), located in the Bond Academic Center (EAC@pointloma.edu or 619-849-2533). Once a student's eligibility for an accommodation has been determined, the EAC will work with the student to create an Accommodation Plan (AP) that outlines allowed accommodations. Professors are able to view a student's approved accommodations through Accommodate.

PLNU highly recommends that students speak with their professors during the first two weeks of each semester/term about the implementation of their AP in that particular course. Accommodations are not retroactive so clarifying with the professor at the outset is one of the best ways to promote positive academic outcomes.

Students who need accommodations for a disability should contact the EAC as early as possible (i.e., ideally before the beginning of the semester) to assure appropriate accommodations can be provided. It is the student's responsibility to make the first contact with the EAC. Students cannot assume that because they had accommodations in the past, their eligibility at PLNU is automatic. All determinations at PLNU must go through the EAC process. This is to protect the privacy of students with disabilities who may not want to disclose this information and are not asking for any accommodations.

Additional Course Information

Additional PLNU policies and practices that apply to this course can be found at the following link: <https://docs.google.com/document/d/11BgAANLOJ9tjt837d24EZ181ukM2qzHF/edit>

Assignments are posted in CANVAS.

Homework

Sections	Pages	Problems	Due Date
1 - 2	4 - 5	1, 2, 4, 8, 11	1/20/26
3	7 - 8	1, 2, 3, 4	1/20/26
4 - 5	13 - 14	1, 2, 8, 9	1/20/26
6	16 - 17	1, 2, 4, 5	1/20/26
7 - 9	23 - 24	1, 2, 3, 5, 10	1/20/26
10 - 11	30 - 32	1, 3, 4, 6, 7, 8, 9	1/27/26
12	34 - 35	1, 2, 3, 5, 6, 7	1/27/26
13 - 14	43 - 44	1, 2, 3, 5, 8	1/27/26
15 - 18	54 - 55	1, 2, 3, 5, 8, 11	2/3/26
19 - 20	61 - 62	1, 2, 3, 4, 8	2/3/26
21 - 24	70 - 72	1, 2, 3, 8	2/10/26
25 - 26	76 - 77	1, 2, 4	2/10/26
27	79 - 80	2, 3, 6	2/10/26
30	89 - 90	1, 2, 3, 4, 6, 8	2/24/26
31 - 33	95 - 97	1, 2, 3, 4, 6, 10	2/24/26
35 - 36	103	1, 2, 3, 4	2/24/26
37 - 38	107	1, 2, 3, 4	2/24/26
39	111 - 112	1, 12	2/31/26
40	114	1	3/3/26
41 - 42	119 - 120	1, 2, 3, 5	3/3/26
43	123 - 125	1, 3, 5	3/3/26
44 - 46	132 - 135	1, 2, 3, 6, 13	3/3/26
47	138 - 139	1, 2, 4, 5	3/17/26
48 - 49	147	1, 2	3/24/26
50 - 53	159 - 162	1, 2, 3, 4	3/24/26
54 - 57	170 - 172	1, 2, 3, 4, 5	3/24/26
58 - 59	177 - 178	1, 4	3/31/26
60 - 61	185 - 186	1, 2, 3, 6, 7, 8	3/31/26
62 - 65	195 - 197	2, 3, 10, 11	3/31/26
66 - 68	205 - 208	1, 2, 3, 4	4/14/26
74 - 77	237 - 238	1, 2, 3, 4	4/21/26
78 - 79	242	1, 2	4/21/26
80 - 81	246 - 247	1, 4, 5, 7	4/21/26
82 - 83	253 - 254	1, 2, 7	4/28/26
85 - 86	264 - 265	1, 2, 3	4/28/26
96	301	1, 2	4/28/26
97 - 98	305 - 306	1, 2, 3, 4, 5	4/28/26
99 - 100	311 - 312	1, 2, 3	4/30/26
101	317	1	4/30/26

LomaBooks Instructions for Students

This course is part of our course material delivery program, LomaBooks. The bookstore will provide each student with a convenient package containing all required physical materials; all digitally delivered materials will be integrated into Canvas.

You should have received an email from the bookstore confirming the list of materials that will be provided for each of your courses and asking you to select how you would like to receive any printed components (in-store pick up or home delivery). If you have not done so already, please confirm your fulfillment preference so the bookstore can prepare your materials.

For more information about LomaBooks, please go: [HERE](#)