Faculty of Science | Department of Mathematics and Statistics
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Course Outline
MATH 401: Complex Analysis [12219]

Instructor(s)

Lecturer   Dr. Heath Emerson

Research Area   Operator algebras and Noncommutative Geometry

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Office   David Turpin Building A447

General Course Information

Number of Units   1.5

Pre-requisites   One of Math 301, 330B, 338, AND and one of Math 335 or 336.

Office Hours and Assistance

Day   **Monday 10:30-11:30**

Day   **Wednesday 2:00-3:00**

By appointment (send email to book one)

The Mathematics & Statistics Assistance Centre is a large space where students can go to work, on their own or in groups, and to discuss math & stats problems. The Centre is staffed with talented Teaching Assistants who are happy to discuss primarily first and second year course material with you. Please see http://www.math.uvic.ca/~msassist/index.html for more information.

Math Club Students in Undergraduate Mathematics and Statistics (SUMS) was founded in 2014 as the reincarnation of a previous undergraduate course union that had been inactive for a few years. Please see http://www.uvic.ca/science/math-statistics/current-students/undergraduate/sums/index.php for more information.

Course Materials and Online Resources

Textbook *Complex Analysis*, by Theodore W. Gamelin.

Class Meetings

Tuesday, Wednesday and Friday, 12:30-1:20 in ECS 130.

Specific Topics

Math 401 is a second course in complex analysis, and our aim will be to cover some more advanced topics in the subject, such as the Riemann Mapping Theorem, other topics in conformal mappings and Riemann surfaces, the Schwartz Reflection Principal, Julia sets, Runge's Theorem, and some topics in special function theory, like the Riemann zeta function and the Prime Number Theorem.

Evaluation and Grading

Your final percentage grade will be computed according to the following scheme.

Homework Assignments	Midterms	Final Exam
4	Oct. 6, Nov. 17	TBA
25%	25%	50%

Missing work No late assignments will be accepted except in case of illness, in which case a doctor's note will be required. Midterms missed by illness also require a doctor's note. If a midterm is missed due to illness, the missing grade will be replaced by the average of your grade on the Final Exam and your grade on the other midterm. Missing two midterms will result in an incomplete grade for the course.

Accessibility Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the Centre for Accessible Learning (CAL) as soon as possible. The CAL staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations https://uvic.ca/cal. The sooner you let us know your needs the quicker we can assist

you in achieving your learning goals in this course.

Grading Percentage scores will be converted to letter grades according to the university-wide standard
table

(Undergraduate: http://web.uvic.ca/calendar2016-09/undergrad/info/regulations/grading.html#
Graduate: http://web.uvic.ca/calendar2016-09/grad/academic-regulations/grading.html#)

Final Examination Off-schedule final examinations (i.e., deferred examinations) are given only in
accordance with the university policy as outlined in the Calendar. If you are unable to write a
final examination due to illness, accident or family affliction, please refer to the following
webpages for detailed instructions how to proceed: http://web.uvic.ca/calendar2016-
09/undergrad/info/regulations/concessions.html#
Students are strongly advised not to make plans for travel or employment during the final
examination period as special arrangements will not be made for examinations that conflict with
such plans.

Supplemental Examinations. The Department of Mathematics and Statistics does not award 'E' grades
or offer Supplemental Examinations in any of its courses.

Policies and Ethics

Attendance The university Calendar states 'Students are expected to attend all classes in which they are
enrolled.' Our courses are conducted on that basis. If you miss an announcement (information
concerning midterms, corrections to assignment, etc.) because you did not attend class, you
must accept the consequences of not having learned of the change. (see
http://web.uvic.ca/calendar2016-09/undergrad/info/regulations/attendance.html#).

Guidelines on Religious Observances Where classes or examinations are scheduled on the holy days of
a religion, students may notify their instructors, at least two weeks in advance, of their intention
to observe the holy day(s) by absenting themselves from classes or examinations. Instructors
will provide reasonable opportunities for such students to make up work or missed
examinations.

Academic Integrity Academic integrity is intellectual honesty and responsibility for academic work that
you submit individual or group work. It involves commitment to the values of honesty, trust, and
responsibility. It is expected that students will respect these ethical values in all activities related
to learning, teaching, research, and service. Therefore, plagiarism and other acts
against academic integrity are serious academic offenses.
The responsibility of the institution
Instructors and academic units have the responsibility to ensure that standards of
academic honesty are met. By doing so, the institution recognizes students for their
hard work and assures them that other students do not have an unfair advantage
through cheating on essays, exams, and projects.
The responsibility of the student
Plagiarism sometimes occurs due to a misunderstanding regarding the rules of
academic integrity, but it is the responsibility of the student to know them. If you are
unsure about the standards for citations or for referencing your sources, ask your

instructor. Depending on the severity of the case, penalties include a warning, a failing grade, a record on the students transcript, or a suspension.

It is your responsibility to understand the University's policy on academic integrity:
http://web.uvic.ca/calendar2016-09/undergrad/info/regulations/academic-integrity.html#

How to Succeed in This Course

Students must follow the text with attention, the lectures support the textbook and are intended as a discussion around material introduced there. The first part of the text will be covered at a pretty quick pace, as it is in principal dealing with material the student should be familiar with; students should follow along and work practice problems from the text to ensure a level of comfort with the material. The pace will slow as we get into some deeper theory. There will be four formal assignments, posted at regular intervals, and due approximately 2 weeks after posting. Assignments will be posted on the course website.