

Mathematics 3032: Complex Functions and PDEs
Winter 2012

Instructor:

Dr. Yin Chen RB 2017, 343-8608 yin.chen@lakeheadu.ca
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Course Timetable:	Math 3032 WA	Math 3032 WB
	<ul style="list-style-type: none">• Lectures Monday, Wednesday 17:30 – 19:00, SN 1015• Labs Thursday 17:30 – 18:30,	<ul style="list-style-type: none">• Lectures Monday, Wednesday 13:00 – 14:30, UC 2011• Labs Thursday 16:30 – 17:30,

Course webpage: <http://flash.lakeheadu.ca/~ychen/math3032.html>

Office Hours: Wednesday 14:30 – 16:30

Text: **Advanced Engineering Mathematics (4th edition)**
by Denis Zill and Warren Wright

Course Content: Series solutions to ODEs, Bessel and Legendre equations and series, Fourier series, Method of separation of variables and boundary value problems in rectangular and curvilinear coordinates, Laplace and Fourier transforms, Complex functions and integrals, Cauchy's integral formula.

Assignments:

1. There will be 9 assignments, each of which will be posted on the course webpage a week before it is due. The assignments are expected to be handed in before 11:00 am on Fridays (January 20, 27, February 3, 10, 17, March 2, 16, 23, 30).
2. There are two mailboxes marked as Math 3032 WA and Math 3032 WB in the hallway of the second floor of Ryan Building (near RB 2023) for the assignments. Please make sure you submit your assignments into the right mailbox.
3. The lowest assignment mark of the 9 will be dropped. Late assignments will not be accepted under any circumstances. Valid excuses, such as illnesses with a doctor's note, will instead result in the mark being dropped.
4. All assignments must include a cover page with course number, assignment number, students name, and students ID number.

Exams: There are one 75-minute midterm exam and one 3-hour final exam. The midterm exam will be written in class:

• Midterm	Math 3032 WA: Monday, March 5, 17:30 – 18:45, SN 1015.
• Midterm	Math 3032 WB: Monday, March 5, 13:00 – 14:15, UC 2011.

In the event that the student is absent for the midterm due to a valid documented excuse, the midterm mark will be dropped and the final exam will account for 80% of the final grade. Otherwise, the student will receive 0.

Course Grade:	Assignments	20%
	Midterm	25%
	Final Exam	55%