

**MAA 4402/5404
Summer A, 2014**

Course Title: MAA 4402: Functions of Complex Variables
MAA 5404: Introduction to Complex Variables

Course Content:

MAA 4402/5404 is designed as an introduction to the basic theory of functions of complex variables necessary for applications and various types of problems.

The course is divided into three units:

<u>Unit I</u>	Complex Numbers and Analytic Functions
<u>Unit II</u>	Integrals and Series
<u>Unit III</u>	Residues and Applications

Textbook: *Complex Variables and Applications* by Churchill and Brown, McGraw-Hill (Publisher), 9th edition (or 8th edition).

Prerequisites: MAC 2313 and MAC 2302

INSTRUCTOR: Doctor Larissa Williamson
Office: LIT 380, Tel. (352)294-2341
Office hours: M, F 2:00pm-3:00pm, W 11:00am-12:00pm or upon appointment
E-mail: lwill@ufl.edu

Course websites: <http://people.clas.ufl.edu/lwill/> and Sakai: <https://lss.at.ufl.edu/>

LECTURE NOTES: The lecture notes are required, and the students should have them on each lecture. They are available for printing from Sakai (see the address above).

LECTURE PARTICIPATION:

Regular class attendance is expected and the lecture participation will be taken. Total of 18 lectures and 4 review sessions will be given on the dates indicated in the calendar. On each lecture or review session, a 5-minute attendance/participation quiz will be offered at the end with one short multiple-choice problem and one multiple-choice theory question. For attempting a problem or question, a student will receive 0.5 points. If a student gets a correct answer, he/she will receive 1 additional point. Thus, a maximum of 3 points can be earned on a session. However, the score will be capped by 2 points, that is, a student must answer at least one question correctly to get a perfect score for the attendance/participation. Six bonus points will be added at the end of the term to each student's account to compensate occasional misses of the class. The total score will be counted out of 44 points.

Note: Attendance will not be taken during the Discussion sessions and Exams – participation in those will be reflected in your grade for the homework or exams. There will be no makeup on the lecture participation.

GRADED HOMEWORK: A set of homework problems will be assigned after each lecture and collected on the days indicated in the calendar. A student must be present in class in order to turn in the assignment. The total number of assignments corresponds to the number of

lectures, that is, 18. Each assignment is out of 4 points. The lowest 2 scores will be dropped at the end of the term. That is, a total of 64 points can be earned on the homework.

TEXTBOOK HOMEWORK: Textbook homework is listed on the website. Some of these problems will be assigned in the Graded Homework and some will be discussed in class during lectures or Discussion sessions.

EXAMS: Two unit exams and the Final will be offered during the class time on the dates indicated in the calendar. Each exam is out of 54 points. All unit exams are in the free response format and will be graded with a partial credit. A cumulative final exam is **OPTIONAL** and will be given in a multiple-choice format. The best two scores out of three for the exams will count towards the grade.

IMPORTANT NOTE: The homework assignments and exams will not be reviewed, offered, and/or accepted for grading at the end of the term. You should discuss with your instructor a homework assignment and exam within three days after receiving the grade and the Final exam – on the same day if there is a grading error or any other problem.

MAKEUP POLICY: All make-ups will be given only on legitimate documented reasons. We will not accept any late excuse documentation. No make-ups will be given at the end of the term. You have to present to your Instructor an appropriate documentation before you miss the class/exam or right after you come back to school if you were sick in order to be eligible for a make-up. There is no makeup on the lecture attendance/participation.

GRADE POSTING POLICY: The course grades will be posted on Sakai and updated weekly. You are advised to check regularly whether your grades are handled and recorded properly. You should immediately report any problem with your grade to your Instructor. The final grades will be posted in Sakai on the day of the Final Exam.

Calculators are not required and only scientific calculators are allowed on quizzes and exam.

COURSE GRADE: Points will be accumulated as follows:

22	Lecture Participation	@	2 points	44	20 %
16	Homework Assignments	@	4 points	64	30 %
2	Exams	@	54 points	<u>108</u>	<u>50 %</u>
				216	100%

The course grade is the grade satisfying the conditions below and will be **strictly** adhered to

MAA 4402		MAA 5404	
Passing Grades	Minimum %	Passing Grades	Minimum %
A	90 %	A	92 %
A -	86 %	A -	88 %
B+	82 %	B+	84 %
B	78 %	B	80 %
B -	74 %	B -	76 %
C+	70 %	C+	72 %
C	66 %	C	68 %

Non-passing Grades

C -	62 %
D+	58 %
D	54 %
D -	50 %
E	0 %

Non-passing Grades

C -	64 %
D+	60 %
D	56 %
D -	52 %
E	0 %

NOTE: A passing grade in the course is a C or higher.

HELP: In addition to attending your class regularly and visiting your Instructor during her office hours, the following aids are available:

a) Broward Teaching Center: The OIR tutoring center located in SE Broward Hall is open during the day and in the evening. Further information and hours of operation are posted on-line at www.teachingcenter.ufl.edu

b) Private Tutors: If, after availing yourself of these aids, you feel you need more help, you may obtain from the Mathematics Department Office (358 Little) a list of qualified tutors for hire. This list is also posted on the department web page www.math.ufl.edu

STUDENTS WITH LEARNING DISABILITIES requesting accommodations must first register with the Dean of Students Office. The Dean of Students Office will provide the student with documentation which must be turned in to the Instructor when requesting accommodations.

MAA 4402/5404 Calendar Summer A 2014

SUMMER A 2014	Monday	Tuesday	Wednesday	Thursday	Friday
MAY	12 L1	13 L2	14 L3	15 L4	17 Discussion HW L1-L4
	19 L5	20 L6	21 L7	22 L8	23 Discussion HW L5-L8
	26 No Class	27 L9	28 L10	29 Review HW L9-L10	30 EXAM 1 L1-L10
JUNE	2 L11	3 L12	4 L13	5 L14	6 Discussion HW L11-14
	9 L15	10 L16	11 L17	12 L18	13 Discussion HW L15-18
	16 Review	17 EXAM 2 L11-L18	18 Review I	19 Review II	20 FINAL L1-L18