

MATH 641 - Section 001

Functions of a Real Variable

Syllabus - Fall 2018

Professor: Dr. Lennard Bakker

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Office Hours: T,Th,F 1-2 p.m.

Text: *Real and Complex Analysis*, Third Edition, by W. Rudin (a.k.a. Green Rudin)

Course Meeting: MWF, 3:00-3:50, in room 112 TMCB

Course Description: In this course, you will learn about Abstract Integration, Positive Borel Measures, L^p -Spaces, Elementary Hilbert Space Theory, Examples of Banach Space Techniques, Complex Measures, Differentiation (of complex measures), and Integration on Product Spaces. These comprise Chapters 1,2,3,4,5,6,7,8 of the text.

Course Website: A pdf copy of the syllabus, lecture schedule, and lecture notes are available on my website math.byu.edu/~bakker

Homework: The homework assignments and their due dates are listed in Learning Suite. The homework assignments are generally due every week on Friday by 3 p.m. at the beginning of class. You are encouraged to work as a group on finding solutions. Each question graded will be graded out of 10. Homework scores will be posted in Grade Book in Learning Suite.

Grading: Your final grade will be assessed in the following way:

Homework 75%, In-Class Final Exam (Thur. Dec 20, 3-6 p.m.) 25%.

There are 40 homework points of extra credit available, for doing the online course evaluation at the end of the semester.

Letter grades will be assigned as follows. These percentage grades are guarantees of the letter grade.

B+	= 89-87%,	C+	= 79-77%,	D+	= 69-67%,				
A	= 100-93%	B	= 86-83%,	C	= 76-73%,	D	= 66-63%,	E	= 59-0%.
A-	= 92-90%	B-	= 82-80%,	C-	= 72-70%,	D-	= 62-60%,		

These may be scaled down to accommodate a reasonable class GPA.

Miscellaneous:

Preventing Sexual Harassment: As required by Title IX of the Education Amendments of 1972, Brigham Young University prohibits sex discrimination against any participant in its education programs or activities. The university also prohibits sexual harassment—including sexual violence—committed by or against students, university employees, and visitors to campus. As outlined in university policy, sexual harassment, dating violence, domestic violence, sexual assault, and stalking are considered forms of “Sexual Misconduct” prohibited by the university.

University policy requires any university employee in a teaching, managerial, or supervisory role to report incidents of Sexual Misconduct that come to their attention in any way, including but not limited to face-to-face conversations, a written class assignment or paper, class discussion, email, text, or social media post. Incidents of Sexual Misconduct should be reported to the Title IX Coordinator at t9coordinator@byu.edu or 801-422-8692. Reports may also be submitted through EthicsPoint at <https://titleix.byu.edu/report> or 1-888-238-1062 (24-hours).

BYU offers confidential resources for those affected by Sexual Misconduct, including the university’s Victim Advocate, as well as a number of non-confidential resources and services that may be helpful. Additional information about Title IX, the university’s Sexual Misconduct Policy, reporting requirements, and resources can be found at <http://titleix.byu.edu> or by contacting the university’s Title IX Coordinator.

Students with Disabilities: BYU is committed to providing reasonable accommodation to qualified persons with disabilities. If you have any disability that may adversely affect your success in this course, please contact the University Accessibility Center at 422-2767. Services deemed appropriate will be coordinated with the student and instructor by that office.

Children in the Classroom: The study of mathematics requires a degree of concentration and focus that is exceptional. Having small children in class is often a distraction that degrades the educational experience for the whole class. Please make other arrangements for child care rather than bringing children to class with you. If there are extenuating circumstances, please talk with your instructor in advance.