

MAT 546: SEVERAL COMPLEX VARIABLES (FALL 2026)

CHRISTIAN SCHNELL

BASIC INFORMATION

We meet Tuesday and Thursday, 11:00pm to 12:20pm, in room 328 of Frey Hall. My office is in room 4-110 of the Mathematics building; for the time being, office hours will be Friday, 9:00am to 12:00pm. You can also contact me by e-mail at christian.schnell@stonybrook.edu.

ABOUT THE COURSE

The topic of the course is holomorphic functions in several variables and their properties. Two important topics are the solution of the Levi problem, which describes domains of holomorphy in terms of pseudoconvexity; and L^2 estimates for the inhomogeneous Cauchy-Riemann equations. Time permitting, we will also talk about complex manifolds, holomorphic vector bundles, and hermitian metrics.

GRADING

Your grade in the course will be determined by homework scores and by class participation.

UNIVERSITY POLICIES

Student Accessibility Support Center Statement. If you have a physical, psychological, medical or learning disability that may impact your course work, please contact the Student Accessibility Support Center (SASC), Stony Brook Union Suite 107, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and the staff at the Student Accessibility Support Center (SASC). For procedures and information go to the SASC website.

Academic Integrity Statement. Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology Management, Nursing, Social Welfare, Dental

Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website.

Critical Incident Management Statement. Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.