

The 4+1 accelerated pathway in Professional Applied and Computational Mathematics (PACM) is for students in the Applied Mathematics B.S. program. The pathway initiates graduate-level coursework at the undergraduate level, providing qualified students with seamless entry to the M.S. program in Professional Applied and Computational Mathematics and an accelerated course of study toward an advanced degree.

## ABOUT THE PACM PATHWAY

Students in the 4+1 pathway begin graduate coursework during their senior year of undergraduate study. Following the completion of their Applied Mathematics bachelor's degree program, candidates then continue with one full year of graduate study to fulfill the coursework requirements for their Master of Science in Professional Applied and Computational Mathematics (PACM).

Students must have a minimum cumulative GPA of 3.0 before enrollment in any graduate course in the 4 + 1 pathway. For most students, this will be at the end of their junior year (sixth semester). In their senior year (seventh semester), students start graduate coursework with PSM 601: Mathematical Modeling and Applications II. In the eighth semester, students complete their undergraduate coursework as well as a second PSM graduate course recommended by the Mathematics Department.

Students accepted to the pathway must follow the curriculum map as outlined below in order to stay on track and to have senior-year graduate-level coursework included in undergraduate tuition rates.

### Courses to complete senior year

Students take the following classes in their senior year:

- Fall Semester: **PSM 601**
- Spring Semester: **A Second PSM course (selected with advisement of Mathematics Department)**

## APPLYING TO 4+1 PACM PATHWAY

Students enter the 4+1 pathway either as incoming freshmen or at any point in their undergraduate degree program. Students interested in the PACM 4+1 pathway should meet with a designated 4+1 adviser to discuss the application process before completing an application packet.

An acceptable application to the department will include evidence that all requirements for admission to the PACM program have been met. Students applying to the 4+1 program are also required to submit a commitment statement indicating their intent to remain at Buffalo State for both undergraduate and graduate studies.

Application packets for the 4+1 pathway are available in the Mathematics Department, Bishop Hall 317. Please visit or call the department at (716) 878-5621 with questions or to make an appointment with a PACM 4+1 pathway adviser.

### Admission Requirements General (Undergraduate)

- Current students already accepted to Applied Mathematics BS program who have completed 75 or more credit hours with a minimum cumulative GPA of 3.0 may apply to the pathway program before their final year of undergraduate study.
- The application includes a submission of commitment statement in the 4+1 program which includes an intent to remain at Buffalo State for the graduate portion of the pathway.

### Transfer

- Transfer students from two-year and other four-year institutions follow the same institutional admission requirements as other students transferring into the PACM program.
- Acceptance to the 4+1 course sequence is contingent on courses completed at institutions that have transfer equivalence to courses in the Applied Mathematics program.
- Transfer students should speak to the Mathematics Department chair or designee before applying. Please call the department at (716) 878-5621 with questions or to arrange an appointment.

### FOR MORE INFORMATION

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