ACCELERATED BS/MS APPLIED MATHEMATICS

This is an accelerated five-year BS/MS program. After successfully completing this program, a student will receive a bachelor’s degree in either mathematics or applied mathematics as well as a master’s degree in applied mathematics. Under the supervision of a faculty advisor, a student in the program will finish the core course requirements and most of the electives for the bachelor’s degree in the first three years. During the third year of the baccalaureate degree a student will formally apply to the program through the Graduate School. Upon acceptance a student will be cleared to complete the remaining electives of the bachelor’s degree and 30 credits of graduate work for the master’s degree in the last two years. A student will be eligible for a graduate assistantship only in these last two years and must be registered for at least nine graduate credits in each of those semesters. In this program six of the required senior-level credits for the undergraduate program will be replaced by graduate-level credits. These six credits will be applied to the requirements of both the bachelor’s and master’s degrees. Further, students in the program may choose to replace nine credits of the open electives for the undergraduate program by graduate-level electives.

Graduate work will include the following courses

- 3450:621 Real Analysis (3 credits)
- 3450:627 Advanced Numerical Analysis I (3 credits)
- 3450:633 Methods of Applied Mathematics I (3 credits)
- 3450:692 Seminar in Mathematics (3 credits)
- 3450:699 Master’s Thesis (3 credits)
  (Non-thesis option is not available)

At least one course from the following

- 3450:625 Analytic Function Theory (3 credits)
- 3450:628 Advanced Numerical Analysis II (3 credits)
- 3450:632 Advanced Partial Differential Equations (3 credits)

At least two courses from the following

- 3450:634 Methods of Applied Mathematics II (3 credits)
- 3450:635 Optimization (3 credits)
- 3450:730 Advanced Numerical Solution of Partial Differential Equations (3 credits)

Graduate Electives - 6 credits

A student must maintain a 3.0 or better grade point average to stay in the program. If a student is not able to do this, then he or she will have the option to complete the regular bachelor’s degree program instead of the five-year accelerated plan.