problems; numerical solution of boundary value problems; numerical linear algebra; numerical methods of optimization; and functional analytic methods. Special approval needed from the instructor.


586-3 Pattern Recognition and Image Processing. An introduction to the area of computer vision for the purpose of restoration, segmentation, encoding, analysis and recognition of pictures. Topics include: image transforms, edge detection, smoothing, filtering, pseudo-coloring, syntactic methods in scene analysis, parametric decision theory, non-parametric decision theory, linear discriminant functions, parameter estimation, supervised learning and unsupervised learning. Prerequisite: CS 220 and MATH 380 or consent of instructor.

590-1 to 6 Readings. Supervised readings in selected subjects. Graded S/U only. Special approval needed from the instructor and department.

591-1 to 9 (1 to 3 per topic) Special Topics. Selected advanced topics from the various fields of computer science. Special approval needed from the instructor.

593-1 to 4 Seminar. Preparation and presentation of reports. Graded S/U only. Special approval needed from the instructor.

598-3 Graduate Project. A practical exercise in the design, implementation, documentation and deployment of a project. This project can be done through internship, work/study, or a supervised project.

599-3 to 9 Thesis. Special approval needed from the instructor and department.

600-1 to 9 Doctoral Dissertation. Dissertation research. Hours and credit to be arranged by the student’s academic advisor. Graded S/U only. Restricted to admission to Ph.D. in computer science program.

601-1 per semester Continuing Enrollment. For those graduate students who have not finished their degree programs and who are in the process of working on their dissertation, thesis, or graduate project. The student must have completed a minimum of 24 hours of dissertation research, or the minimum thesis or graduate project hours before being eligible to register for this course. Concurrent enrollment in any other course is not permitted. Graded S/U or DEF only.

Creative Writing
(See English for program description)