This course introduces various techniques for the enhancement and analysis of digital imagery. Topics to be covered include the interpretation of image statistics, image enhancement based on histogram transformations, spatial filtering, and image transforms. Issues concerning data acquisition and storage will also be discussed.

**Required Texts:**


**Grade Distribution:**

- Programs and assignments 40%
- Research Paper 10%
- Test 1 15%
- Test 2 15%
- Final Exam 20%

Graded assignments will be due at the beginning of class. Late assignments will be accessed a penalty of 10% per day. Once an assignment has been graded and returned to the class, that particular assignment will no longer be accepted.

**Written Assignments:** Written assignments should represent the quality expected of upper level students. Each answer to an assigned problem should be preceded by a copy of the question it is answering. Show all work. The process is as important, if not more so, than the answer. Work may be handwritten, but should be neat, legible, and stapled if necessary. Ragged edges from pages torn out of a spiral notebook are unacceptable. (*There are scissors, stapler and other supplies available in the NAS lobby if needed.*)

**Attendance:** You are expected to attend all lectures and are responsible for all materials covered in class and assigned readings. Planned absences must be authorized in advance and any excused absence must be documented with the proper paperwork. It is assumed that any homework or program assignments will be submitted on time regardless of any absence.

**Eckerd College Honor Code:** “On my honor, as an Eckerd College student, I pledge not to lie, cheat, or steal, nor to tolerate those behaviors in others.”

It is expected that the Eckerd College Honor Code will be respected by all students regarding any materials submitted for evaluation. All homework, writing assignments and tests will be “Pledged” and signed. A short statement will be required in the comments section of each programming assignment submitted.