**SYLLABUS TEMPLATE – CHANGE ONLY THE ITEMS HIGHLIGHTED YELLOW**

**COSC 3399 + COSC 4399**

**Senior Research Project**

**Semester: Fall 2020**

**Syllabus**

**Instructor/Research Mentor:** INSERT NAME

**Instructor/Research Mentor Email**: INSERT EMAIL

**Catalog Description, Degree Applicability, and Minimum Department Requirements:**

Both COSC 3399 and COSC 4399 must be completed for the courses to apply towards a degree. Requires a written Honors Thesis and defense thereof by the published deadlines during the semester in which COSC 4399 takes place. Visit <https://uh.edu/honors/undergraduate-research/honors-thesis> for details.

This is a two-semester sequence that can be applied towards either 1) the NSM Capstone requirement or 2) COSC advanced elective, but not both. A general petition must be submitted to enroll each semester.

**Course Description:**

Reports, readings, and discussions on materials relevant to pattern recognition and object identification. This course primary purpose is to develop each student’s ability to understand and master techniques in machine learning, pattern recognition, and image processing. Students will be required to develop their own research project, present a proposal talk, execute the project, present the results in a talk, and write a research paper based on their findings.

**Course Requirements:**

Weekly updates and completion of a final report are mandatory. Depending on the number of credits selected, students are required to meet with the instructor for at least one hour per week. This course requires substantial independent work and individual responsibility. If you must miss a scheduled meeting, you must provide a substantial excuse and are responsible for rescheduling the meeting.

**Grading:**

Letter Grade - COSC 3399 will be graded as “In Progress” until successful completion of COSC 4399 in the subsequent semester. A letter grade will be assigned to both courses upon completion of the requirements in the second semester.

**Evaluation:**

Grades will be assessed as summarized below:

Weekly discussions /emails 20 % (based on participation, and preparation)

Oral presentation 20 % (based on preparation, format, and style)

Written paper 20 % (based on preparation, format, and style)

Project accomplishment 40% (based on the usability of the final product)