

Davenport University
Course Syllabus

1. CSCI497 Computer Science Capstone

2. Credit Hours: 3 / Contact Hours: 45

3. Course Coordinator: Kowalczyk, Brian

4. Textbook and Supplemental Materials

5. Specific course information

- a. This is the capstone for the Bachelor of Science degree in the Computer Science. Competency of the program will be demonstrated through a project in which the student demonstrates proficiency in their specific major area of study.
- b. Prerequisite(s): Last semester; major courses completed or taken concurrently
- c. This course or CSCI490 is required for the Computer Science program

6. Specific goals for the course

- a. Upon successful completion of this course, the student will be able to:
 - i. Integrate and synthesize the field of study (Specialty).
 - ii. Extend the field of study with innovative problem-solving.
 - iii. Critique the field of study with an original thought.
 - iv. Apply the field of study to real-world problems.
 - v. Address contemporary issues facing the field of study.
 - vi. Apply critical thinking to a global environment.
- b. 1, 2, 3, 4, 5
- c. Mapping of Course Learning Outcomes to ABET's Student Outcomes
 - i. Integrate and synthesize the field of study (Specialty). (ABET SO #1)
 - ii. Extend the field of study with innovative problem-solving. (ABET SO #6)
 - iii. Critique the field of study with an original thought. (ABET SO #6)
 - iv. Apply the field of study to real-world problems. (ABET SO #2)
 - v. Address contemporary issues facing the field of study. (ABET SO #1)
 - vi. Apply critical thinking to a global environment. (ABET SO #4)

7. A brief list of topics to be covered

- a. Requirements elicitation (individual/team) (3)
- b. Software design (individual/team) (3)
- c. Software testing (individual/team) (3)

d. Project Management (individual) (3)