ME 390 COURSE PROFILE

DEGREE PROGRAM: Mechanical Engineering

COURSE NUMBER: ME 390	**COURSE TITLE:** RISE 3 - Research, Innovation, Service, Entrepreneurship
REQUIRED COURSE OR ELECTIVE COURSE: Elective	**TERMS OFFERED:** Fall, Winter, Spring, Summer
TEXTBOOK / REQUIRED MATERIAL: None	**PRE / CO-REQUISITES:** Permission of Instructor (2-3 credits)
COGNIZANT FACULTY: Undergraduate Program Director	**COURSE TOPICS:**
BULLETIN DESCRIPTION: Individual or group project work where student(s) must apply mechanical engineering principles to research, innovation, service or entrepreneurship projects. Student(s) work under the direction of Mechanical Engineering faculty. The student(s) submits proposal and presents poster at ME Undergraduate Symposium.	1. To be determined by a proposal written by the student under the direction of the faculty member and approved by the Undergraduate Program Director.
COURSE STRUCTURE/SCHEDULE: Per Instructor	

COURSE OBJECTIVES: **for each course objective, links to the Program Outcomes are identified in brackets.**	1. To be specified in the proposal and to be appropriate for juniors in mechanical engineering. May include, but not be limited to: To teach the student how to conduct research [1, 6]; To teach the student how to apply the knowledge gained in other classes to solve mechanical engineering problems [1]; To teach the student the use of modern engineering tools [1, 2, 6]; To teach the student the need for and ability to engage in life-long learning [7]; To teach the student to design and/or analyze systems, components, or concepts to responsibly meet societal and/or practical needs [1, 2, 4, 7]; and To teach the student how to present their engineering work through oral, written, and/or other visual means [3].
COURSE OUTCOMES: **for each course outcome, links to the Course Objectives are identified in brackets.**	1. To be specified in the proposal.
ASSESSMENT TOOLS: **for each assessment tool, links to the course outcomes are identified**	1. Poster presentation at the Mechanical Engineering Undergraduate Symposium. 2. Other tools agreed to in the proposal.

PREPARED BY: D. Dowling
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