

**ME 491 COURSE PROFILE****DEGREE PROGRAM:** Mechanical Engineering

<b>COURSE NUMBER:</b> ME 491	<b>COURSE TITLE:</b> Independent Study
<b>REQUIRED COURSE OR ELECTIVE COURSE:</b> Elective	<b>TERMS OFFERED:</b> Fall, Winter, Spring, Summer.
<b>TEXTBOOK / REQUIRED MATERIAL:</b> None.	<b>PRE / CO-REQUISITES:</b> MECHENG 490, permission of instructor; mandatory pass/fail. I, II, IIIa, IIIb (1-3 credits)
<b>COGNIZANT FACULTY:</b> Undergraduate Program Director	<b>COURSE TOPICS:</b>  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.
<b>BULLETIN DESCRIPTION:</b> Individual or group experimental or theoretical research in the area of mechanical engineering. A topic in mechanical engineering under the direction of a member of the department. The student will submit a final report. Two four-hour laboratories per week. For undergraduates only.	
<b>COURSE STRUCTURE/SCHEDULE:</b> Per Instructor	

<b>COURSE OBJECTIVES:</b> for each course objective, links to the Program Outcomes are identified in brackets.	1. To be specified in the proposal. May include, but not be limited to: To teach student how to conduct research [1, 6]; To teach student how to apply the knowledge gained in other classes to solve mechanical engineering problems [1]; To teach student the use of modern engineering tools [1, 2, 6]; To teach students the need for and ability to engage in life-long learning [7]
<b>COURSE OUTCOMES:</b> for each course outcome, links to the Course Objectives are identified in brackets.	1. To be specified in the proposal.
<b>ASSESSMENT TOOLS:</b> for each assessment tool, links to the course outcomes are identified	1. Written report. 2. Other tools agreed to in proposal.

**PREPARED BY:** K. Oldham

**LAST UPDATED:** 06/21/2017