



### Sample Brief Course Description

<b>Course title</b>	Capstone Design Project (1)
<b>Course code</b>	BME 480
<b>College</b>	Engineering
<b>Department / Program</b>	Biomedical Engineering
<b>Year/ Level</b>	5/ 9
<b>Course Type</b>	A. <input type="checkbox"/> University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Others b. <input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective
<b>Credited Hours</b>	2
<b>Contact Hours</b>	(LT:1, LB:2,TR:0)
<b>Pre-requisites (if any)</b>	Completing (134) CR from program requirements
<b>Co-requisites (if any)</b>	---
<b>Course description</b>	Senior students select a design project and apply learned tool and knowledge to design process, components, and/or system. Students develop work plan, identify the problem, formulate the problem through reviewing background and integrating knowledge; prepare for/or preliminary conducting of the experiments, Collect the field data, develop the mathematical model if applicable; and writing a report stating preliminary findings.



<b>Course Main Objectives</b>	Prepares the senior students to carry a design project, product, component, and/or system based on the learned knowledge reflecting the biomedical engineering program objectives.
<b>Learning Outcomes</b>	<b>Knowledge and Understanding:</b> 1. Identify project problem and statement based on realistic needs and relative constraints. 2. Review related data, knowledge, and experiences from credible sources
	<b>Skills:</b> 1. Formulate problem covering methodology of integrating knowledge drawn from previous courses and information and generating possible alternative design options and solution. 2. Develop design objectives and evaluation
	<b>Values:</b> 1. Communicate orally and in writing the project design details in technical report. 2. Work effectively as member of team.