

DEREE COLLEGE SYLLABUS FOR: BMS 4750 CAPSTONE IN BIOMEDICAL SCIENCES	
<div> <div>UK LEVEL: 6</div> <div>UK CREDITS: 20</div> </div> <div>(Previously BMS 4650 CAPSTONE IN BIOMEDICAL SCIENCES)</div> <div>(Updated: Fall 2024)</div>	
PREREQUISITES:	BI 1000 Introduction to Biology I BI 1101 Introduction to Biology II BI 2222 Cell Biology BI 3336 Molecular Biology BI 3240 Human Anatomy and Physiology MA 2025 Applied Statistics for Sciences BMS 4645 Research Methods and ICT Tools in Biomedical Sciences
CATALOG DESCRIPTION:	This course is the culmination of the work in Biomedical Sciences. It involves an independent research project and is designed to provide students with research opportunities in health and biomedical sciences.
RATIONALE:	This course is required for all biomedical sciences majors and allows students to expose themselves to a real biological question. Students are expected to integrate all their acquired knowledge and skills in the course of this program and apply them in a specific setting. The project topics are selected from a broad spectrum of BMS areas.
LEARNING OUTCOMES:	<p><i>As a result of taking this course, the student should be able to:</i></p> <ol style="list-style-type: none"> 1. Demonstrate in-depth knowledge and understanding of a specific biomedical and health sciences topic. 2. Identify key aspects of biomedical sciences issues and apply appropriate knowledge and skills to their solution. 3. Apply a range of lab and computer-based methods to study biomedical questions. 4. Analyze data and information on a particular topic in a critical manner. 5. Demonstrate ability in integrating knowledge, communicating scientific information and engaging in independent study and self-evaluation.
METHOD OF TEACHING AND LEARNING:	<p>In congruence with the teaching and learning strategy of the college, the following tools are used:</p> <ul style="list-style-type: none"> • Regular meetings with the supervisor at different stages of the research project, where students present and receive feedback on their work. Each student is assigned a capstone supervisor depending on the topic selected. Students select the topic and make the proposal for their capstone project during the BMS 4645 course. • Use of a Blackboard site, where the supervisor posts information about the course, notes providing a theoretical background on scientific writing, as well as general guidelines for conducting the project. • Independent research: literature review, collection of data and information, critical evaluation, analysis and synthesis.

ASSESSMENT:	<p>Summative:</p> <table border="1" data-bbox="643 185 1442 331"> <tr> <td>Final assessment: Research project (6,500 - 7,000 words)</td><td>100%</td></tr> <tr> <td> <ul style="list-style-type: none"> • Project paper 85% • Oral defense 15% </td><td></td></tr> </table> <p>Formative:</p> <table border="1" data-bbox="643 405 1442 512"> <tr> <td>Regular meetings with the supervisor, where students receive feedback on their work.</td><td>0</td></tr> <tr> <td></td><td></td></tr> </table> <p>The final assessment tests all learning outcomes.</p>	Final assessment: Research project (6,500 - 7,000 words)	100%	<ul style="list-style-type: none"> • Project paper 85% • Oral defense 15% 		Regular meetings with the supervisor, where students receive feedback on their work.	0		
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Regular meetings with the supervisor, where students receive feedback on their work.	0								
INDICATIVE READING:	<p>REQUIRED READING: N/A</p> <p>RECOMMENDED READING: Recommended readings will depend on the topic chosen by each student.</p>								
INDICATIVE MATERIAL: (e.g. audiovisual, digital material, etc.)	<p>REQUIRED MATERIAL: N/A</p> <p>RECOMMENDED MATERIAL: N/A</p>								
COMMUNICATION REQUIREMENTS:	Verbal and written skills using academic/professional English								
SOFTWARE REQUIREMENTS:	MS Office and Blackboard CMS								
WWW RESOURCES:	As needed for the selected topic.								
INDICATIVE CONTENT:	N/A								