

<p>Course Name: KNPE 439/3.0</p> <p>Critical Appraisal and Translation of Muscle Physiology Research</p> <p>Not Offered 2020-21</p>	<p>Course Instructor:</p> <p>Dr. Brendon Gurd</p>	<p>Learning Hours:</p> <p>Lectures: 1 x 3 hrs / 12 weeks</p>																		
<p>Course Description:</p> <p>This course will provide students with an opportunity to read, evaluate and discuss recent scientific literature in the areas of exercise metabolism, exercise nutrition, and performance. In addition, the course will focus on developing a systematic approach to scientific writing and will provide opportunities to write translational literature that accurately communicates recent scientific findings to the general population.</p>		<p>Prerequisite:</p> <p>Level 4 in a PHED or KINE plan and KNPE 339/3.0</p>																		
<p>Learning Outcomes:</p> <ul style="list-style-type: none"> • Develop an advanced understanding of current topics in exercise/muscle physiology and an ability to discuss these topics within the context of physiological models • Gain a cursory knowledge of the methodology used in muscle physiology • Read and critique literature from the field of muscle physiology: <ol style="list-style-type: none"> a) Identify and evaluate problem statements (specifically the 4 key proposition statements) b) Extract and present prior literature that supports each proposition statement c) Evaluate appropriateness/strengths/weaknesses of study design and methodology d) Discuss importance/significance for the general public • Translate scientific article in a form appropriate for public consumption <ol style="list-style-type: none"> a) Be able to clearly identify what you think is important for the general public to know (develop a purpose sentence for your work) b) Clearly develop a plan for translating important information (bullet point outline of how you will 		<p>Exclusion:</p> <p>No more than 3.0 units from KNPE 439/3.0 and KNPE 493/3.0 (Fall Term 2016-17)</p> <p>Readings:</p> <p>Course notes will be limited, but when available they will be posted on OnQ.</p> <p>Evaluation:</p> <table border="0"> <tr> <td>Reading Quizzes 2% each (9 in total)</td> <td style="text-align: right;">18%</td> </tr> <tr> <td>Presentations</td> <td></td> </tr> <tr> <td>SIT v END Presentation</td> <td style="text-align: right;">6%</td> </tr> <tr> <td>Non-response Presentation</td> <td style="text-align: right;">6%</td> </tr> <tr> <td>Final Presentation</td> <td style="text-align: right;">25%</td> </tr> <tr> <td>Infographic Assignment</td> <td style="text-align: right;">15%</td> </tr> <tr> <td>Written Assignment</td> <td></td> </tr> <tr> <td>Proposal and Annotated Bibliography</td> <td style="text-align: right;">5%</td> </tr> <tr> <td>Final Assignment</td> <td style="text-align: right;">25%</td> </tr> </table>	Reading Quizzes 2% each (9 in total)	18%	Presentations		SIT v END Presentation	6%	Non-response Presentation	6%	Final Presentation	25%	Infographic Assignment	15%	Written Assignment		Proposal and Annotated Bibliography	5%	Final Assignment	25%
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achieve your purpose) c) Translate information in a variety of forms (infographics and written article)	
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Course Outline

Becoming an expert and presenting problem statements	Non-response: measurement error
How to present	Writing with purpose: The 5 paragraph essay
Why does SIT work?	Writing sentences, paragraphs, essays, posts
Presentation workshop #2	Infographics and workshop
Non-response to exercise	