

Health & Human Sciences
PLO Data, MS in Kinesiology, FA21-SP22

Learning Outcome #1

Appraise current research data in Kinesiology and integrate it into their professional practice to solve relevant problems and make effective decisions

Criteria for success: 70% of students will score 80% or better on their overall CAT rubric grade

Signature Assignments: Critical Appraisal Topic Paper

Course: KIN 6010

Results of Critical Appraisal Topic

	% of students scoring at least 70% or better on their critical appraisal topic
Fall 2019 (n=24)	100%
Fall 2020 (n=28)	85%
Fall 2021 (n=41)	87%

Interpretation and Conclusion:

All of the students met the criteria for this standard.

Changes to be made:

No changes necessary.

Rubric Used:

Critical Appraisal Topic Rubric (see below)

Critical Appraisal Topic Abstract Rubric

	Description
<i>Clinical Scenario (10pts)</i>	A brief description of the clinical scenario leading to the clinical question.
<i>Clinical Question (10pts)</i>	A focused clinical question of importance in sport rehabilitation.
<i>Summary of Key Findings (10 pts)</i>	A bulleted list of the key clinical findings from the search.
<i>Clinical Bottom Line (10 pts)</i>	The most important take-home message from the available evidence. Some statement regarding the level of available evidence and subsequent strength of recommendations is required
<i>Strength of Recommendation (10 pts)</i>	A brief description of the strength of evidence summarized following the critical appraisal

Critical Appraisal Topic Main Text Rubric

Search Strategy: (5 points)	Describe the databases and sites searched, the search terms used, and any search limits. The search should ideally have been conducted within several months of submission for publication and should seek to obtain the best available evidence.
PICO (5 points)	Should be in list format – See sample @ JSR website
Inclusion and Exclusion Criteria (5 points)	Explicitly list all inclusion and exclusion criteria for your article inclusion
Search Results (5 points)	In narrative form, describe the results of your search
Best Evidence (10 points)	Indicate how many studies were chosen (MUST INCLUDE AT LEAST 3) for inclusion and appraisal in this CAT and provide the reasons that these studies were selected (ie, level 1 study, etc). <i>JSR strongly recommends authors use the Centre for Evidence-Based Medicine's definitions in determining level of evidence</i>
Summary of Best Evidence (50 points)	Each of the studies chosen for inclusion in the CAT should be critically appraised in a comparative table. The table might include the following headings: Study Design Participants Intervention Investigated Control Experimental Outcome Measures (Primary and Secondary) Main Findings Level of Evidence Validity Score
Conclusion (15 points)	

Implications for Practice, Education, and Future Research (25 points)	Practical discussion based on the information provided from the appraisal of current literature. Anecdotal comments regarding whether or not this intervention is commonly used clinically, cost of this intervention, etc, are appropriate.
Acknowledgements, Conflict of Interest, References (0 points)	

Learning Outcome #2

Students will effectively communicate essential information in their discipline.

Two courses are used to measure PLO#2:

Course 1: KIN 6098, KIN6099

Signature Assignments: Thesis and Capstone Project presentations

Criteria for success: 80% of candidates will score at 'proficient' or 'mastery' level on the five components of the AAC&U Oral Communication Rubric (i.e. "3" or higher) as determined by 5 faculty assessors.

Oral Communication Rubric	% of students scoring proficient or mastery on rubric (i.e. 3 or 4) 2016-2017 (n=25)	% of students scoring proficient or mastery on rubric (i.e. 3 or 4) 2017-2018 (n=26)	% of students scoring proficient or mastery on rubric (i.e. 3 or 4) 2018-2019 (n=24)	% of students scoring proficient or mastery on rubric (i.e. 3 or 4) 2019-2020 (n=DNT)	% of students scoring proficient or mastery on rubric (i.e. 3 or 4) 2020-2021 (n=DNT)
<i>Organization:</i>	89%	94%	100%	DNT*	DNT
<i>Supporting material:</i>	80%	93%	95%	DNT	DNT
<i>Central message:</i>	83%	90%	91%	DNT	DNT
<i>Delivery:</i>	77%	80%	79%	DNT	DNT
<i>Language:</i>	78%	96%	100%	DNT	DNT

*DNT= did not test

Interpretation and Conclusion:

In 2021-22 this data was not collected, but we will begin to collect data on this outcome in Fall 2022. MS-KIN students met or exceeded the criteria for success in the organization, supporting material, central message and language on their oral presentations. In 2018 and 2019 we have observed marked improvements in the areas of organization, central message and language. This reflects a concerted effort made by the MS-KIN faculty in KIN 6050 and KIN 6098 to give students multiple opportunities to present orally. These data support that this effort was successful and led to improved student delivery and presentation of their final research projects. Following the 2018-2019 school year data on this learning outcome has not been collected for two reasons: 1) the group of graduates was too large to have face to face presentations in the pandemic and 2) the MS-KIN program had a shift in commencement date from May to December making it more challenging to bring the entire cohort to collect data on this outcome. As a result, oral data is now collected within the KIN 6005 which happens to be a capstone course for all concentrations.

Changes to be made: Oral data for the MS-KIN program will be collected in KIN 6005 - Research Methods. See data below.

Rubric Used: AACU Oral Communication Rubric

Course 2:

Signature Assignments: Oral Presentations in KIN 6005

Criteria for success: 70% of students will score adequate or above in each category of the rubric.

	% of students scoring Adequate or full marks on rubric 2019-2020 (n=34)	% of students scoring Adequate or full marks on rubric 2020-2021 (n=24)	% of students scoring Adequate or full marks on rubric 2021-2022 (n=39)
States Research Problem	100%	100%	100%
Literature Review	100%	100%	100%
Hypothesis	100%	100%	100%
Study Aims	100%	100%	100%
Participants	100%	100%	100%
Instrumentation	100%	100%	100%
Statistical Design and Analysis	100%	100%	100%
Organization	82%	96%	74%

Interpretation and Conclusion: All learning outcomes for this measure were met.

Changes to be made: None at this time

Rubric Used: KIN6005 Oral Presentation Rubric (next page)

	Full Marks	Adequate	Limited	None
States Research Problem	Full Marks (10 pts)	Adequate (6 pts)	Limited (3 pts)	None (0 pts)
Literature Review	Thoroughly reviews current research on problem (20 pts)	Adequately reviews current research on problem (15 pts)	Limited Review (7 pts)	None (0 pts)
Hypothesis	Clearly states null and research hypotheses (10 pts)	Adequately states hypotheses (8 pts)	Partially state hypotheses (5 pts)	None (0 pts)
Study Aims	Thoroughly states purposes of study (10 pts)	Adequately states study's purposes (7 pts)	Partial aim (5 pts)	None (0 pts)
Participants	Full description: subjects, sample size, power analysis, IRB, recruitment, inclusion criteria (10 pts)	Adequate description of subjects (7 pts)	Partial description (5 pts)	None (0 pts)
Instrumentation	Full description: equipment, validity, reliability, location, access (15 pts)	Adequate description of instrumentation or tools (11 pts)	Partial description (5 pts)	None (0 pts)
Statistical Design and Analysis	Clearly states statistical design, IV, DV, normality, tests, appropriateness for hypothesis testing (20 pts)	Adequate analysis (12 pts)	Partial analysis; statistics do not match hypothesis (5 pts)	None (0 pts)
Organization	Slides were well-organized, speaker was succinct and coherent, answered questions sufficiently (5 pts)	To the point but somewhat unclear (3 pts)	None (0 pts)	

Learning Outcome #3

Graduates will indicated preparedness for vocation and calling.

Criteria for success:

70% of students will say that the MS-KIN “enhanced” or “greatly enhanced” their ability on the questions below.

Signature Assignments: Alumni Survey

Survey Goals assessed from Alumni:

Goal #1

Appraise current research data in Kinesiology and integrate it into their professional practice to solve relevant problems and make effective decisions.

Goal #2

Work independently and with a team to communicate essential information in their discipline

Goal #3

Demonstrate appropriate breadth of knowledge of the background and principle research in their specialization in order to conduct an independent research project.

Goal #4

Pursue an active and growing involvement in their discipline by achieving advanced certification and/or membership in a professional organization in their discipline.

Goal #5

Serve various populations, integrating compassionate care and the Christian faith with their professional practice.

To what extent did the MS KIN enhance your ability to do the following:	2017 (n=29)	2018 (n=25)	2019 (n=26)	2020 (n=17)
Evaluate the quality of research data in Kinesiology and integrate it into your practice	97	96	92	100
Work with a team to communicate essential information in your discipline	86	92	92	100
Gain knowledge in research related to your discipline in order to conduct an independent project or write a research proposal	96	96	92	82%
Consider the Christian faith as it relates to your professional practice	77	75	84	66
Prepare you for your professional life and career	NC	92	100	100

Interpretation and Conclusion: All program goals were met.

KINES: PLO Data, MS Kines, 2020-21

Changes to be made: None at this time.

Rubric Used: None. It's a survey.