Assurance of Student Learning Report 2022-2023			
College of Health and Human Services		Kinesiology, Recreation, and Sport	
Kinesiology-0454			
Danilo Tolusso			
Is this an online program? ☐Yes ☒ No	Please make sure the F Yes, they match! (I	Program Learning Outcomes listed match those in CourseLeaf . Indicate verification here If they don't match, explain on this page under Assessment Cycle)	

	list learning outcomes, measurements, and summarize results for your program. Detailed information must be completed in the	subsequent p	ages. Add
more Outcomes			
	nt Learning Outcome 1: Students develop and demonstrate advanced skills needed to recognize, evaluate, and prescribe solutions	from an integr	ated and
	regarding human movement, wellness, and performance.		
Instrument 1	A comprehensive exam in Advanced Exercise Testing & Prescription (KIN 522) evaluates core knowledge and performance dom		tudents to be
	prepared for the American College of Sports Medicine (ACSM) Certified Clinical Exercise Physiologist (ACSM – CEP) certification	tion exam.	
Instrument 2			
Instrument 3			
Based on your i	results, check whether the program met the goal Student Learning Outcome 1.	Met	☐ Not Met
	nt Learning Outcome 2: Interpret and apply advanced knowledge of the physiological influence of physical activity/exercise on his	ealth, fitness, s	port
•	d clinical practice.		
Instrument 1	A formal research paper based on a self-selected topic that coincided with a teaching presentation		
Instrument 2	Students will complete an article assignment during the semester on topics germane to the course, designed to foster analytical an	d critical think	zing skills and
mstrument 2	to enhance students' ability to apply course knowledge into practical settings.	u citticai-tiiiii	ing skins and
Instrument 3	to enhance students ability to apply course knowledge into practical settings.		
	results, check whether the program met the goal Student Learning Outcome 2.		
Dascu on your I	csuits, eneck whether the program met the goar student Learning Outcome 2.	Met Met	☐ Not Met
Program Stude	nt Learning Outcome 3: Students develop capacity as researchers and as practitioners who use evidence-based practices to develop	n and conduct	a research
0	s to implement, assess, and revise consumer-based exercise prescriptions and community health initiatives based on scientific advantages.		u 1000u1011
Instrument 1	Students will be assessed through evaluation of a final research proposal, including an introduction, review of literature, detailed to		results, and
	discussion to be prepared and submitted in written form.		,
Instrument 2	Students will be assessed on their in-depth knowledge of the project and ability to talk about scientific research by putting their fit	nal project in a	research
	presentation and presenting it to the class and the professor.	1 5	
Instrument 3			
	results, check whether the program met the goal Student Learning Outcome 3.	N 3.5 /	
v		Met Met	☐ Not Met
Assessment Cyc	de Plan:		
Student learning	outcomes, as currently listed, have been added to CourseLeaf. However, KIN faculty will re-assess program level, student le	earning outcor	nes next fall to
	changes to better align with current and soon-to-be proposed courses.	Č	
*	• • •		

		Program Student Learning Out	tcome 1				
Program Student Learning Outcome		rudents develop and demonstrate advanced skills needed to recognize, evaluate, and prescribe solutions from an integrated and holistic oproach regarding human movement, wellness, and performance.					
		omprehensive exam in Advanced Exercise Testing & Prescription (KIN 522) evaluates core knowledge and performance domains for students to be prepared for the American College of Sports Medicine (ACSM) Certified Clinical Exercise Physiologist (ACSM – CEP) iffication exam.					
Criteria for Student Success	Students will sc	ore >/= 80% on the comprehensive exam.					
Program Success Target for this		Our target is for >/= 80% of our students to attain the above criterion of a score of >/= 80% on the comprehensive exam.	Percent of Program Achieving Target	83%			
	The multiple-ch	ent for Spring 2022, N = 6 oice comprehensive exam content addresses core cli scribing exercise for clinical populations (Myocardia					
Measurement Instrument 2							
Criteria for Student Success							
Program Success Target for this	Measurement		Percent of Program Achieving Target				
Methods							
Measurement Instrument 3							
Criteria for Student Success							
Program Success Target for this	Measurement		Percent of Program Achieving Target				
Methods							
Based on your results, highlight v	whether the pro	gram met the goal Student Learning Outcome 1.		Met	☐ Not Met		
Results, Conclusion, and Plans fo	r Next Assessm	ent Cycle (Describe what worked, what didn't, ar	nd plan going forward)		•		

Results: The Kinesiology students demonstrated comprehension of course content based on the outcome of the comprehensive exam for the course. The expectations are set for the graduate level course and the students worked diligently to meet or exceed the course expectations. The Graduate students attended each class for lecture and were alert and prepared to learn. As the course progressed, students participated in lecture and course discussions and demonstrated learning as the semester progressed. tudents were encouraged to study daily and throughout each week of the course to keep up with the course content.. t was evident that the students were completing the necessary out of class preparation by reviewing their notes and reading the assigned reading in the textbook and coming to each class prepare. . hen necessary, there were individual meetings scheduled to further elucidate course material and ensure comprehension.. he comprehensive exam provides students the opportunity to recall and apply the entire knowledgebase /content of the covered throughout the entire course and to better be prepared for the format of the American College of Sports Medicine Clinical Exercise Physiologist (ACSM – CEP) certification or other nationally recognized certification or Licensure exam.

Conclusions: The KIN 522 course is a lecture based course and works well for providing the core clinical knowledge and performance domains that ensure graduate students are prepared for the American College of Sports Medicine Clinical Exercise Physiologist (ACSM – CEP) certification exam and/or to work with clinical populations in other professional careers such as Physical Therapy, Occupational Therapy, Health-Fitness facilities or other professional clinical settings. Students learn clinical knowledge, skills, and abilities throughout the semester long course and subsequently apply the course content in their clinical internship hours and/or when beginning their chosen career. A new ACSM Clinical Exercise Physiology (2019) textbook was required for the course that is specifically addresses the core knowledge and performance domains for the ACSM – CEP certification and was helpful in assuring that the course content aligned with certification preparation. It was the first time utilizing the new textbook for the course. Continued use of the new textbook will be assessed to determine how the textbook facilitates classroom learning and as a resource for certification review.

Plans for next assessment cycle: Specifically, students who have a career goal of working in Cardiac Rehabilitation, will complete the required amount of clinical internship hours (600 hours) as they continue to review KIN 522 and other pertinent graduate course content and prepare for the ACSM- CEP exam. The outcome will vary for each student and some will sit for the certification upon the completion of their clinical internship hours in the Kinesiology program. Others will begin their positions at the Cardiac Rehabilitation facility and complete the ACSM – CEP certification in their first year. Keeping in contact with graduates of the Kinesiology Graduate program will allow us to continue to track the number of students seeking the ACSM – CEP certification or other certifications and determine their level preparedness and success rate.

I addition to tracking the ACSM-CEP certification completion and outcomes, future assessments of student learning outcomes will ensure that the KIN 522 course content thoroughly addresses the ACSM core knowledge and performance domains and students and are successful when taking the comprehensive exam. The plan is to evaluate the effectiveness of the ACSM Clinical Exercise Physiology (2019) textbook in ensuring the textbook bolsters student learning and serves as a sufficient resource.

		Program Student Learning Ou	itcome 2			
Program Student	Interpret and app	ply advanced knowledge of the physiological influen	ce of physical activity/exercise on he	alth, fitness, sport	performance, and	
Learning Outcome	clinical practice.	-				
Measurement Instrument	A formal research	ch paper based on a self-selected topic that coincided	with a teaching presentation			
1						
Criteria for Student Success	Students will sco	idents will score >/= 80% on the paper.				
Program Success Target for th	is Measurement	Our target is for >/= 80% of our students to	Percent of Program Achieving	100%		
		attain the above criterion of a score of >/= 80%	Target			
		on the paper.				
Methods	Student enrollm	ent for the Fall 2022, N =5.				
		s are to complete a research presentation and accomp				
Measurement Instrument		mplete an article assignment during the semester on		ed to foster analytic	al and critical-	
2	thinking skills a	nd to enhance students' ability to apply course know	ledge into practical settings.			
Criteria for Student Success	Students will sco	ore >/= 90% on each of the assignments.				
Program Success Target	t for this	Our target is for >/= 90% of our students to	Percent of Program Achieving	60% (3/5)		
Measurement	tioi tiiis	attain the above criterion of a score of >/= 90%	Target	0070 (3/3)		
Wiedsuf ement		on each of the assignments.	Turget			
Methods	Student enrollm	ent for the Fall 2022, $N = 5$.				
1120110 us	Student emonn	one for the 1 th 2022, 1. 5.				
	Direct: Students	s completed a short article presentation assignment th	nat required students to take informat	ion previously lear	ned in the course	
		n it using literature they found during personal explosi		r		
Based on your results, circle or		ner the program met the goal Student Learning O				
. ,	9 9	1 0	•	Met Met	☐ Not Met	

Results, Conclusion, and Plans for Next Assessment Cycle (Describe what worked, what didn't, and plan going forward)

Results: It was expected that students would perform well on shorter comprehensive exams throughout the semester compared to one long comprehensive final given at the end of the semester. It was also expected that students would not show mastery of literature interpretation and presentation on their first attempt.

Conclusions: Assignments in the course worked well, including an article presentation and exams. However, the course was changed to remove the comprehensive final as it was more relevant to emphasize the material in smaller "chunks" on each exam. Each exam is comprehensive in nature, requiring students to remember and apply previously learned material on each subsequent exam. As such, the data represents how students performed on Exams 1, 2, and 3 rather than a singular comprehensive final. This was a more successful way of assessing student performance than a singular attempt.

<u>Plans for Next Assessment Cycle</u>: Delete comprehensive final as instrument 1 and implement a new instrument, the final course project (presentation and paper). We feel this is a more appropriate artifact as it represents the students' ability to create content and present information using their own words rather than simply repeating content previously presented to them. Their efforts will require students to develop a 50-minute presentation on a topic not covered in class and an accompanying scientific paper.

Instrument 2 has changed from essay question assignments to a short article presentation wherein students chose a scientific article that relates to previously learned course material and expanded on what was learned from the instructor. The threshold for success should also adjust to 90% of students should score an 80% or better to describe success on the instrument.

		Program Student Learning O	utcome 3			
Program Student		capacity as researchers and as practitioners who us				
Learning Outcome		ll as to implement, assess, and revise consumer-based exercise prescriptions and community health initiatives based on scientific vancements. Idents will be assessed through evaluation of a final research proposal, including an introduction, review of literature, detailed methodology,				
Measurement Instrument				w of literature, deta	ailed methodology,	
1	results, and discus	ssion to be prepared and submitted in written form.				
Criteria for Student Success		re >/=80% on the research proposal.				
Program Success Target for th	is Measurement	Our target is for $>/= 80\%$ of our students to	Percent of Program Achieving	6/6, 100%		
		attain the above criterion of a score of >/= 80%	Target			
		on the research proposal submission.				
Methods	Student enrollmen	nt for the Fall 2022, N=6.				
	Students and in -t-	voted on all aspects of conducting researchith h	man subjects and have to const	raggarah propagal f	rom incontion of	
		ucted on all aspects of conducting research with hug methodology. The course covers how to complete				
		loodborne pathogen training, biosafety levels for diverse types of laboratories, how to identify a research topic/question, write an abstract, atroduction, literature review, and construct/write a methodology. In turn, they take all this information and apply it by identifying a research				
		g a question, and writing up a research proposal inc		and approprieto y raci	milying a research	
Measurement Instrument	Students will be a	ssessed on their in-depth knowledge of the project	and ability to talk about scientific res	search by putting th	neir final project in	
2		ation and presenting it to the class and the professor	•	J 1 - C	1 3	
Criteria for Student Success	•	re >/=80% on the research proposal.				
Program Success Target		Our target is for >/= 80% of our students to	Percent of Program Achieving	6/6, 100%		
Measurement		attain the above criterion of a score of >/= 80%	Target			
		on the research proposal presentation.	_			
Methods	Student enrollmen	nt for the Fall 2022, N=6.				
		tegrate all aspects of the research proposal into a 20		e class and the prof	essor. They are to	
No.	include backgroui	nd, purpose, methods, results, and discussion into t	he presentation.			
Measurement Instrument						
3						
Criteria for Student Success						
Cineria for student success						
Program Success Target	t for this		Percent of Program Achieving			
Measurement			Target			
====================================						
Methods						
					1	
Based on your results, circle or	r highlight whethe	r the program met the goal Student Learning O	outcome 3.	Met	☐ Not Met	
				Z IVICE		
Results, Conclusion, and Plans	for Next Assessm	ent Cycle (Describe what worked, what didn't,	and plan going forward)			

<u>Results</u>: Results demonstrate our graduate students are successful at completing the assessments with the desired/expected scores. Students all attended classes regularly, completed all assignments in a timely manner, and did well at taking what they were learning in the classroom and applying them to their final project (presentation and paper).

Conclusions: The plan of going through each section individually and writing/preparing that section as we went along (and grading it at that time) was successful. It allowed them not to be overwhelmed by the entire process but focus on each part or step as it came. This was my first time instructing the class so there were inherent changes to content with a new professor. However, the students learned and enjoyed the content. In fact, of the 6 students in the class, 5 have decided to do a Master's Thesis, many of which are based on their in-class projects. This suggests they gained an appreciation for the process and are interested in pursuing it further.

Plans for Next Assessment Cycle: The plan is to keep most aspects of the class similar since it was successful. The notion of allowing students to resubmit any section with appropriate revisions is going to continue as it not only strengthens the writing, but also adds to their abilities to take feedback and respond, which is what happens when writing papers in the field. Next course offering, the hope is to add some additional content on study design-related concepts and go into more detail on a few topics. I also plan to integrate writing and submitting an IRB proposal as part of the course (this was not required).

	LO1:	LO2:	LO3:	LO4:	LO5
	Interpret and apply advanced knowledge of the physiological influence of physical activity/exercise on health & fitness, sport performance, and clinical practice.	Students develop and demonstrate the skills needed to recognize, evaluate and prescribe solutions from an integrated and holistic approach regarding human movement, wellness, and performance	Students develop capacity as practitioners and researchers who use evidence-based practices to implement, assess, and revise consumer-based exercise prescriptions and community health initiatives based on scientific advancements	Successfully complete the ACSM (EP-C) and/or NSCA (CSCS) or any other nationally recognized certification exam	Students should be able to evaluatue the quality of research article, summarize the findings, and formulate an opinion on overall findings/message of research.
KIN 501- Research Methods		I			I
KIN 503- Advanced Motor Learning and Control	I	I	I		R
KIN 504- Advanced Exercise Physiology	I	I	I		R
KIN 512- Advanced Strength and Conditioning	R	R	I	I	
KIN 514- Laboratory Methods	R	R	I/R		I
KIN 518- Advanced Statistics in Kinesiology					I/R
KIN 522- Advanced Exercise Testing and Prescription	R	I/A	R	R	
KIN 523- Seminar in Exercise Physiology	M				М
KIN 524- Applied Biomechanics	I		R/M		R
KIN 596/599- Internship in Exercise Physiology/ Thesis Research	М	М	М	М	M/A

KIN 504 Course Project

Topic Selection and Article Distribution

- Each student will select a topic (pending instructor approval) to present to the class. The topic selected should be one with which the student has little familiarity.
- Two weeks before presentation: The articles and questions must be cleared by the instructor no later than one week prior to distribution to class members.
- One week before presentation: No later than one week prior to the presentation, the student will distribute a series of articles and questions to the instructor and class members.
- No later than the night of the presentation, students should supply the presentation material and at least 3 exam based questions (short answer) that would accompany your topic.

Teaching (Oral) Presentation

- The student should reveal a comprehensive knowledge of the topic.
- The presentation should be empirically-based, demonstrate the student's familiarity with the relevant literature, and focus on physiological mechanisms underlying response to various organ and body systems to exercise.
- Practical applications should be noted and discussed
- The presentation should follow the general format adopted by the instructor (e.g., whiteboard, LiteTouch, interactive presentation) and be a maximum of 35 minutes in length (no less than 25 minutes).

Topics could include (but are not limited to)

- Microgravity
- SARMs (selective androgen receptor modulators)
- Injury or muscle remodeling
- Thermal responses and control during exercise
- Exercise at altitude
- SCUBA diving
- Free diving
- Impact of anabolic steroids on myocardial tissue
- Diabetes and the athlete
- Gene doping

Course Project Rubric: Teaching Presentation

3 T		
	am	$\boldsymbol{\rho}$
ΤN	am	v.

Topic Selected:

Total Points Earned:

pts	Criterion	Not Met (0%)	Partially Met, with Errors or Insufficiency (0.5%)	Meets Expectation (Full %)
5	Preparation: approval of topic, submission of articles and questions for approval two weeks prior to presentation, distribution of articles and questions to class members one week prior to presentation			
15	Teaching style: interaction with students, appropriate eye contact, not reading directly from slides, adequately answering student questions, providing ample time for note taking, providing articles and questions to students one week prior.			
15	Knowledge : demonstration of thorough knowledge of the subject matter and familiarity with the research literature.			
20	Research: incorporation of research citations and literature into presentation, appropriate discussion of article tables/figures, incorporation of assigned articles and reading questions into presentation.			
20	Physiology: appropriate discussion of physiological mechanisms underlying responses, discussion of both resting and exercise variables/responses, documentation of alterations in physiological response			
20	Practical Applications: review of applications that can be derived from the information, alterations from normal procedures/performance, special precautions			
5	Time Frame (25-30min). Start time: End time:			

Written Paper

Guidelines

- Submitted on the day of the presentation (or one week earlier for extra credit), the student will hand in a formal research paper on the chosen topic
- While no page length is assigned, the paper should provide a comprehensive examination of the chosen topic
- The paper must be typed, double-spaced, worthy of college graduate credit, and properly referenced. Consider using the freely available citation management tool, Zotero. Choose a reference style that is similar to that of a scholarly article you used in the paper. Zotero provides a style guide wherein you can download styles based from particular journals. If you wish, you may follow the style imposed by the International Journal of Exercise Science.

Basic Requirements

- Title page should include:
 - o Title of your paper
 - Your name
 - o Name of the peer that proof read your paper
 - o Abstract and 3-5 keywords
 - o Citations of the three most relevant articles
 - Which journal style your paper is following
- Margins: 1" on all sides
- Double spaced
- Times New Roman font (12 pt)
- The narrative should be 10-15 pages in length (a general guideline but do not exceed 20 pages of narrative) (this does not include the title page or references).
- Reference page
- Spell check and edit your paper yourself. It should be read aloud by you and at least one peer before being submitted.
- Minimally rely on literature reviews as they are not primary in nature. Consider finding a review article that compiles primary articles as a start, but then reference the original research after reviewing it.

General Writing Guidelines

- Start with an introductory paragraph/section that describes the different sections of the paper and use headings for different sections throughout. Be consistent in your formatting.
- At the end of sections, supply a brief summary (1-3 sentences)
- Use the <u>funnel approach</u> (or <u>inverted pyramid</u>): start with subject matter that is more general in nature and progress toward material that is more specific.
- As you progress toward more specific material, this should coincide with material of more critical nature (e.g., research articles rather than books).
- Avoid devoting independent paragraphs to each cited reference or writing a <u>laundry list</u>.
 Your writing should be focused on topics rather than articles. Synthesize information
 from multiple sources that supports, contradicts, or sheds light on a particular point or
 statement.

- Vary your language. It becomes monotonous when each paragraph begins "Jones and Smith (2019) stated..." If you get bored reading it, so will your instructor.
- Avoid personal opinion. Do not use statements like "I believe, I wish, or I feel."
- Back up critical statements and factual information with citations using the format selected.
- Write in the third person (do not use: I, me, my, us, our, we, etc.)

Course Project Rubric: Paper

٦	N T	٠_		_	_	
	IN	a	n	า	e	•

Topic Selected:

Total Points Earned:

		37 (37 (00/)	Partially Met, with	Meets
pts	Criterion	Not Met (0%)	Errors or Insufficiency (0.5%)	Expectation (Full %)
20	Writing: Was the paper well written (free of grammatical errors, spelling mistakes, followed formatting consistently, and provided clear ideas)? Was the reverse pyramid approach (general to specific) used? Was the length of the paper adequate to provide a comprehensive review of the topic area?		insurrency (0.570)	(1 un 70)
10	References: Were citations provided to back up the writing? Were citations mostly from primary works (e.g., original research, meta-analysis). Were the citations consistent in formatting? Did every citation in the text also appear in the reference page? Was the reference page formatted according to the chosen style?			
20	Background Information: Cause and progression of the condition, alterations in normal function associated with (caused by) the condition, who is affected, how many are affected, what specific characteristics do individuals with the condition share?			
25	Physiology: Alterations at rest and during exercise, physiological mechanisms underlying responses, impact on performance, impact on function.			
25	Practical Applications: Review of applications that can be derived from the information, alterations from normal procedures/performance, special precautions			

KIN 504 Article Presentation

Each student pair will be assigned an article to present that relates to the content being covered at the time of presentation.

Presentation Expectations

- Give a background on the physiology necessary to understand the article
- Introduce the purpose of the article
- Give the main findings of the authors (data, figures, tables)
- Present how the article relates to the greater course discussion

Course Project Rubric: Presentation

pts	Criterion	Not Met (0%)	Partially Met, with Errors or Insufficiency (0.5%)	Meets Expectation (Full %)
15	Teaching style: interaction with students, appropriate eye contact, not reading directly from slides, adequately answering student questions, providing ample time for note taking, providing articles and questions to students one week prior.			
15	Knowledge : demonstration of thorough knowledge of the subject matter and familiarity with the research literature.			
20	Research: incorporation of research citations and literature into presentation, appropriate discussion of article tables/figures, incorporation of assigned articles and reading questions into presentation.			
20	Physiology: appropriate discussion of physiological mechanisms underlying responses, discussion of both resting and exercise variables/responses, documentation of alterations in physiological response			
20	Practical Applications: review of applications that can be derived from the information, alterations from normal procedures/performance, special precautions			
5	Time Frame (45-60 min). Start time: End time:			

Research Study Proposal Evaluation Rubric

Component	Fully met (3)	Met (2)	Partially Met (1)	Not met (0)	Score
Proposal overview	Effectively and	Develops a set of testable	Develops hypotheses.	Hypotheses are not	
	insightfully develops a set	and supportable		testable or justifiable.	
	of testable, supportable	hypotheses.			
	and impactful study				
	hypotheses.				
Justification for	The introduction section	The introduction section	The proposal provides	Very little support for	
hypotheses	provides a cogent	provides a logical overview	weak support for study	the conceptual and	
	overview of conceptual	of conceptual and	hypotheses. Provides	theoretical relevant to	
	and theoretical issues	theoretical issues related to	some evidence of sound	the study hypotheses	
	related to the study	the study hypotheses.	critical thinking.	was provided. Provides	
	hypotheses. Demonstrates	Demonstrates competent		little evidence of sound	
	outstanding critical	critical thinking.		critical thinking.	
	thinking.				
Supporting evidence	Provides clearly	Provides adequate	Provides inappropriate	Provides little or no	
	appropriate evidence to	evidence to support	or insufficient evidence	evidence to support	
	support position	position	to support position	position	
Review of relevant	Sophisticated integration,	Provides a meaningful	Fails to cite important or	Provides little or no	
research	synthesis, and critique of	summary of the literature.	relevant scholarship.	relevant scholarship.	
	literature from related	Shows understanding of	Misinterprets research		
	fields. Places work within	relevant literature	findings.		
	larger context.				
Maintains	The proposal is well	The proposal has an	The proposal is	The document lacks	
purpose/focus	organized and has a tight	organizational structure	somewhat focused or	focus or contains major	
	and cohesive focus that is	and the focus is clear	has minor drifts in the	drifts in focus	
	integrated throughout the	throughout.	focus.		
	document				
Methodology	Identifies appropriate	Identifies appropriate	Identifies appropriate	The methodologies	
• Sample	methodologies and	methodologies and	methodologies and	described are either not	
• Procedures	research techniques (e.g.,	research techniques but	research techniques but	suited or poorly suited	
• Measures	justifies the sample,	some details are missing or	many details are missing	to test hypotheses. The	
	procedures, and	vague.	or vague. The	methodology is under-	
	measures). Provides		methodology is largely	developed and/or is not	
	appropriate justification		incomplete.	feasible.	
	for controls. Project is				
	feasible.				

Grammar, clarity,	The PowerPoint is well	The PowerPoint is well put	The PowerPoint is	The PowerPoint is	
and organization	put together and ideas are	together and ideas are well	somewhat disorganized	disorganized and ideas	
	well developed and	developed and explained.	and ideas not explained	not explained. There is	
	explained. There is correct	There is incorrect use of	thoroughly. There is	incorrect use of	
	use of grammar. Bullet	grammar. Bullet points	incorrect use of	grammar. Bullet points	
	points are general ideas	have too much writing. Not	grammar. Bullet points	have too much writing.	
	and not paragraphs.	many visuals.	have too much writing.	No visuals.	
	Visuals are used well.		Not many visuals.		
References and	Properly and explicitly	Properly cited. May have a	The manuscript has	The manuscript lacks	
citations	cited. Reference list	few instances in which	several instances of	proper citations or	
	matches citations	proper citations are	improper use of	includes no citations.	
		missing.	citations. Contains		
			several statements		
			without appropriately		
			citing.		
Presentation Skills	Presenter speaks clearly,	Presenter speaks clearly	Presenter speaks	Cannot understand	
	smoothly, confidently. It	and confidently. The	somewhat clearly. It is	presenter. Does not	
	is apparent that presenter	presenter appears to	not clear if the presenter	appear to understand	
	understands his/her	understand his/her research	understands his/her	research project.	
	research project and is	project for the most part	research project.	Presenter does not	
	comfortable presenting	and is comfortable		seem comfortable	
	material.	presenting material.		presenting material.	