FORENSIC SCIENCE RESEARCH PAPER RUBRIC

Student Name		Evaluator:		
Course	FSC 630	Term Summer	Date_	

ABSTRACT					
5	4	3	2	1	Score
Clearly summarizes the problem addressed; the approach and major findings and conclusions. Between 400-700 words. Includes future directions	Clearly summarizes the problem addressed; the approach and major findings and conclusions. Includes future directions.	Clearly summarizes the problem addressed; the approach and major findings and conclusions. Within word count restrictions. Does not include future directions	Major points within the summary sections are missing such as within the problem addressed; the approach and major findings and conclusions. May not meet word count requirement	Abstract is missing	
TITLE	Γ.	Γ_	Γ_	T .	T _
Concise descriptive, logical title with no style, grammatical, or spelling errors	Wordy, but logical title with no style, grammatical, or spelling errors	Wordy or non- descriptive title with one style, grammatical or spelling error	Misleading or illogical title with one style, grammatical or spelling error	Title misleads or is illogical with a couple misspellings, typos or style errors	Score
AUTHORSHIP		1			•
5	4	3	2	1	Score
Primary investigators are listed accurately by full name, title and agency	Primary investigator (student), faculty topic advisor, and agency supervisor are listed appropriately	Primary investigator and one, but not the other, investigator is listed	Only the primary investigator (student) is listed.		
INTRODUCTION: LITERA					Ι
5	4	3	2	1	Score
Articles reviewed are relevant to the problem being investigated; coverage of previous empirical and theoretical studies is thorough; issues are clearly explained; issues related to the problem are discussed in a logical progression; the number of articles cited is fully sufficient for the task. Full citations for any reference cited in the report using the Scientific Style and Format or other assigned style manual. Minimum of 3 references are within the last 5 years and from peer-reviewed	Articles reviewed are relevant to the problem; coverage of previous empirical and theoretical studies may not be complete; some confusion over concepts or issues may be present; issues related to the problem may not be presented in a logical order, the number of articles is adequate for the task. Full citations using the SSF or other assigned style manual. Minimum of 3 references are within the last 5 years and form peer-reviewed journals.	Some articles reviewed are irrelevant to the problem, or relevant articles from the literature are not reviewed; important information about articles being reviewed may be left out, and/or irrelevant information may be included; confusion about some concepts or issued being discussed; issues related to the problem are not organized in a way which effectively supports the argument, are arranged chronologically, or are arranged article by article; the number of	Articles reviewed are not directly related to the problem, though they may be in the same general conceptual area; important information from articles is ignored, and irrelevant information is include; lack of understanding of concepts or issues being discussed; presentation of previous research and theory not organized in a logical manner; inadequate number of articles reviewed. Minimum of 3	Research and theory related to current problem is not reviewed or discussed.	

Revised 03/25/2014

				Revised 03/	25/2014
journals INTRODUCTION: RESEA 5	4	articles is fewer than necessary for the task. Minimum of 3 references are within the last 5 years and from peer-reviewed journals.	references are within the last 5 years and from peer-reviewed journals	1	Score
Clearly defined variables: independent, dependent, dependent, (or if a non-experimental study, variables to be examined); specific statement as to how variables are to be manipulated and/or measured. "Who cares" statement: why the study was done (relevance); Brief summary of relevant background facts with references; Background clearly leads to the problem or question being addressed; clearly stated hypothesis with predictions.	Clearly defined variables: independent, dependent, (or if a non-experimental study, variables to be examined); general statement as to how variables are to be manipulated and/or measured. Stated in the form of a question. "Who cares" statement is present. Summary of relevant facts with references is present and leads to the problem or question being addressed.	Clearly defined variables: independent, (or if a non-experimental study, variables to be examined); no statement as to how variables are to be manipulated and/or measured and/or not stated in the form of a question.	Clearly defined variables: independent, (or if a non-experimental study, variables to be examined); no statement as to how variables are to be manipulated and/or measured and not stated in the form of a question.	Variables are not clearly defined; no statement as to how variables are to be manipulated and/or measured and not stated in the form of a question.	
RESEARCH DESIGN		I _	Ι _	Ι.	I _
Clearly defined variables: independent (levels Specified), dependent (specifies how this variable will be measured), or if a non-experimental study, variables to be examined are clearly explained in terms of levels or measurement. MATERIALS & METHOD	Variables identified, but one of the following missing: independent (levels specified), dependent (specifies how this variable will be measured), or if a non-experimental study, variables to be examined are clearly explained in terms of levels or measurement	Variables identified, but two of the following missing: Independent (levels specified), dependent (specifies how this variable will be measured), or if a non-experimental study, variables to be examined are clearly explained in terms of levels or measurement.	One variable identified.	No variables clearly identified and/or statement of research design missing	Score
		2	12	1	Coors
Contains effective, quantifiable, concisely organized information that allows the experiment (or study) to be replicated; is written so that all information inherent to the document can	As in 5, but contains unnecessary or superfluous information or wordy descriptions within the section. Equipment and supplies list are incomplete; description of actual experimental methods	Presents a study that is definitely replicable; all information in document may be related to this section, but fails to identify some sources of data of present sequential information in a	Presents a study that is marginally replicable; parts of the basic design must be inferred by the reader; procedures not quantitatively described.	Describes the study so poorly or in such a nonscientific way that it cannot be replicated.	Score

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be related back to this section; identifies sources of all data to be collected; identifies sequential information in an appropriate chronology; contains through, but not redundant, descriptions of procedures. Equipment and supplies are listed; procedure could be replicated by someone else with similar skills in the art; report of actual experimental methods	accurate.	disorganized, difficult way; may contain unnecessary or superfluous information. Equipment and supplies list absent; procedure could be replicated as described; description of actual experimental methods accurate.			
are accurate.					
REFERENCES					
List of reference citations is complete; all works cited in the body of the paper are listed, but only those works; references are listed in alphabetical order; minimum of 3 are from peer-reviewed, scientific journals	As in 5, but references are listed that were not cited in the paper;	As in 5, but less than 3 peer-reviewed, scientific journals were cited.	Student has failed to include all references cited in body of the paper; information in the references is incorrect or incomplete.	Reference list is wholly inadequate, incomplete, or missing.	Score
	1				
REFERENCE FORMAT	T -			T .	
Student has followed all conventions for proper format of a research report as described in the peer-reviewed Forensic Science journal approved by their Faculty Advisor.	Student has made minor deviations in SSF format: e.g., incorrect form of page headers, improper section headings, or incorrect citation format of references.	As in 4, but more serious and consistent errors in format: e.g., subsections are omitted, absence of page headers or numbers, non-SSF style citation format, improper tense or voice for the paper,	Major errors in SSF format: e.g., major sections of paper omitted, absence of title page, information presented in incorrect sections, critical information omitted, figures or tables left out.	Paper does not follow format.	Score
WRITING QUALITY		figures/tables inserted in incorrect location of paper, incorrect information included on title page or critical information omitted, incorrect references to figures and/or tables.			
WRITING QUALITY		in incorrect location of paper, incorrect information included on title page or critical information omitted, incorrect references to figures and/or tables.			
WRITING QUALITY 5 Student has written	4 As in 5, but with	in incorrect location of paper, incorrect information included on title page or critical information omitted, incorrect references to figures and/or	2 The student has	1 The paper is	Score

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elegantly and	occasional uncorrected	numerous	displayed serious	seriously deficient	
cogently, using proper	typographical errors, or a	typographical errors	and consistent	in quality of	
grammar, syntax,	very few minor errors in	and repeated errors in	problems in basic	writing.	
punctuation, spelling;	spelling, grammar,	basic elements of	writing skill; the		
1 ' -					
the paper has a neat	syntax, or punctuation;	writing; the student	ability to express		
appearance and is free	however, errors do not	has not expressed	ideas is		
of typographical	detract from the overall	ideas with clarity and	compromise d by		
errors; wording is	ability to convey	precision; transitions	the poor writing		
appropriate to the	meaning; the paper is not	between paragraphs	quality.		
context; paragraphs	as elegant as in 5	are awkward; wording	quanty.		
	as elegant as in 5				
are well constructed;		of sentences tends to			
paper exhibits a		be simplistic in style			
logical "flow" from		and content.			
section to section;					
student used proper					
voice for the paper.					
					1
RESULTS	T	T	1		1
5	4	3	2	1	Score
Presents major	Data presented clearly	Data presented in an	Results section		
findings of the study;	and with appropriate	unclear fashion;	missing or		
Presents data and	graph, table or	format for data may	plagiarized.		
summarizes	illustration; trends are	not be the best.	F. 20.21.2241		
	· ·	ווטנ שב נווב שבשנ.			
observations using	identified.				
graphs and tables; Any					
trends noticed are					
clearly indicated; Data					
should not be					
interpreted in this					
section.					
	SIGNIC.				
DISCUSSION & CONCLU		Ι _	T _	T .	1 _
5	4	3	2	1	Score
		3 Missing either linkage	2 Results not tied	1 Future	Score
5	4	_			Score
5 How do the results relate to the	4 Results are clearly tied back to original	Missing either linkage to original	Results not tied back to original	Future	Score
5 How do the results relate to the hypothesis or goals of	4 Results are clearly tied back to original hypothesis. New	Missing either linkage to original hypothesis/question	Results not tied back to original hypothesis or	Future questions/directio ns not discussed.	Score
How do the results relate to the hypothesis or goals of the study? What new	Results are clearly tied back to original hypothesis. New questions/hypotheses	Missing either linkage to original hypothesis/question or new	Results not tied back to original hypothesis or question	Future questions/directio ns not discussed. Discussion section	Score
How do the results relate to the hypothesis or goals of the study? What new questions does the	Results are clearly tied back to original hypothesis. New questions/hypotheses presented and future	Missing either linkage to original hypothesis/question or new questions/future work	Results not tied back to original hypothesis or	Future questions/directio ns not discussed. Discussion section missing or	Score
How do the results relate to the hypothesis or goals of the study? What new questions does the study raise? What	Results are clearly tied back to original hypothesis. New questions/hypotheses	Missing either linkage to original hypothesis/question or new	Results not tied back to original hypothesis or question	Future questions/directio ns not discussed. Discussion section	Score
How do the results relate to the hypothesis or goals of the study? What new questions does the study raise? What new hypotheses might	Results are clearly tied back to original hypothesis. New questions/hypotheses presented and future	Missing either linkage to original hypothesis/question or new questions/future work	Results not tied back to original hypothesis or question	Future questions/directio ns not discussed. Discussion section missing or	Score
How do the results relate to the hypothesis or goals of the study? What new questions does the study raise? What	Results are clearly tied back to original hypothesis. New questions/hypotheses presented and future	Missing either linkage to original hypothesis/question or new questions/future work	Results not tied back to original hypothesis or question	Future questions/directio ns not discussed. Discussion section missing or	Score
How do the results relate to the hypothesis or goals of the study? What new questions does the study raise? What new hypotheses might	Results are clearly tied back to original hypothesis. New questions/hypotheses presented and future	Missing either linkage to original hypothesis/question or new questions/future work	Results not tied back to original hypothesis or question	Future questions/directio ns not discussed. Discussion section missing or	Score
How do the results relate to the hypothesis or goals of the study? What new questions does the study raise? What new hypotheses might now be formulated?	Results are clearly tied back to original hypothesis. New questions/hypotheses presented and future	Missing either linkage to original hypothesis/question or new questions/future work	Results not tied back to original hypothesis or question	Future questions/directio ns not discussed. Discussion section missing or	Score
How do the results relate to the hypothesis or goals of the study? What new questions does the study raise? What new hypotheses might now be formulated? What are the future directions of the	Results are clearly tied back to original hypothesis. New questions/hypotheses presented and future	Missing either linkage to original hypothesis/question or new questions/future work	Results not tied back to original hypothesis or question	Future questions/directio ns not discussed. Discussion section missing or	Score
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How do the results relate to the hypothesis or goals of the study? What new questions does the study raise? What new hypotheses might now be formulated? What are the future directions of the work? Scientific Accuracy 5 Scientific concepts are presented clearly and explained accurately. INTELLECTUAL PROPERT 5 Trademarks and registrations are consistently noted.	Results are clearly tied back to original hypothesis. New questions/hypotheses presented and future work is presented. 4 Jargon clearly defined and defined correctly; background correctly describes previous work; no scientific gaffes or inaccuracies. TY 4 Trademarks and registrations are mostly noted. Most unique	Missing either linkage to original hypothesis/question or new questions/future work not presented. 3 Some problems with interpreting primary literature cited in report; science mostly correct and accurate. 3 Trademarks and registrations are inconsistently noted.	Results not tied back to original hypothesis or question investigated. Inaccuracies in interpreting previous work; scientific concepts inaccurate; materials and methods inaccurate. Trademarks and registrations are minimally noted.	Future questions/directio ns not discussed. Discussion section missing or plagiarized. 1 Trademarks and registrations are not noted. Unique	Score
How do the results relate to the hypothesis or goals of the study? What new questions does the study raise? What new hypotheses might now be formulated? What are the future directions of the work? Scientific Accuracy 5 Scientific concepts are presented clearly and explained accurately. INTELLECTUAL PROPERT 5 Trademarks and registrations are	Results are clearly tied back to original hypothesis. New questions/hypotheses presented and future work is presented. 4 Jargon clearly defined and defined correctly; background correctly describes previous work; no scientific gaffes or inaccuracies.	Missing either linkage to original hypothesis/question or new questions/future work not presented. 3 Some problems with interpreting primary literature cited in report; science mostly correct and accurate. 3 Trademarks and registrations are	Results not tied back to original hypothesis or question investigated. 2 Inaccuracies in interpreting previous work; scientific concepts inaccurate; materials and methods inaccurate. 2 Trademarks and registrations are	Future questions/directio ns not discussed. Discussion section missing or plagiarized. 1 Trademarks and registrations are	Score

identified by	manufacturer (Name,	inconsistently	minimally	identified by	
manufacturer (Name,	City, State) upon initial	identified by	identified by	manufacturer	
City, State) upon initial	citation.	manufacturer (Name,	manufacturer	(Name, City, State)	
citation.		City, State) upon initial	(Name, City, State)	upon initial	
		citation.	upon initial	citation.	
			citation.		
ACKNOWLEDGEMENTS					
5	4	3	2	1	Score
Acknowledgements				Acknowledgement	
are present				s are absent.	
LENGTH					
5	4	3	2	1	Score
Narrative is a				Narrative is less	
minimum of 10 pages,				than 10 pages,	
double-spaced. Font is				double-spaced.	
12. Margins are 1				Font is more or	
inch. Pages are				less than 12. Pages	
numbered.				are not numbered.	

SCORE SHEET

Category	Weight	Reviewer Rating	Score [weight x rating = Student Score]	Total Possible
Abstract	4			20
Title	1			5
Authorship	1			5
Introduction: Literature Review	4			20
Introduction: Research Question	2			10
Research Design	4			20
Materials & Methods	4			20
References	1			5
Scientific Style & Format SSF	1			5
Writing Quality	4			20
Results	4			20
Discussion & Conclusions	4			20
Scientific Accuracy	4			20
Intellectual Property	1			5
Acknowledgements	1			5
Length	4			20

Total Points Possible= 220

	Letter Grade
198-220	Α
176-197	В
154-175	С
132-153	D
131 or below	F

Rubric Adapted from:

Herdegen, R. T. III (2004) in P. L. Maki, Assessing for learning. Sterling, VA: Stylus Publishing, LLC.

Courtesy of Dr. Mary Beth Reynolds, Marshall University.

Promega Corporation, 2800 Woods Hollow Road, Madison, WI. *Grading Rubric for Reporting Experimental Results*.

Huth, Edward J. *Scientific Style and Format: The CBE Manual for Authors, Editors, and Publishers.* 6 Ed. Press Syndicate of the University of Cambridge Publishers. ISBN 0-521-47154-0.