Student Name:	BIMS Graduate Program	Faculty Name:	
Student UIN:	Learning Outcomes Assessment	Committee Role:	
Program:	~ Final Rubric ~	Date:	

Besides completing the Report of the Final Exam form required by the Texas A&M University Graduate and Professional School, each committee member will complete this rubric through which the Biomedical Sciences Graduate Program can capture how successfully students master the program's learning outcomes.

Please evaluate the student's achievement of the following learning outcomes as appropriate for the level of their degree (enter a 0 when not observable):

Effective Oral and	Mastery (5)	Proficient (4)	Acceptable (3)	Progressing (2)	Emerging (1)	
Written						Score
Exhibits effective oral communication skills	Prepared with full command of the topic and connects with the audience; clear and coherent in every part; strong visually and verbally	General command of the topic with few problems engaging audience; objectives and information clear; minor revision needed.	Basic presentation with some audience engagement, lack of detail but informative, and moderate revision necessary.	Mild difficulty engaging the audience, expressing clear and coherent thoughts, and speaking words.	Substantial difficulty engaging the audience, expressing clear and coherent thoughts, and speaking words.	
Exhibits effective written communication skills	Fully identifies all relevant knowledge, methods, processes, and findings that lead to clear and abstract conclusions.	Demonstrates a basic understanding of each aspect of research but lacks breadth or depth.	Fundamentally sound writing yet insufficient detail in multiple sections or critical areas.	Lacks substantial elements of research; lack of clarity/limited detail throughout.	Omits substantial elements of research; lack of clarity/limited detail throughout.	
Mastery and Integration of Knowledge						
Demonstrates an appropriate breadth and depth of discipline-specific knowledge	Exhibits familiarity with all directly relevant and interdisciplinary knowledge.	Demonstrates a clear understanding of the knowledge base and principal concepts.	Average level of understanding, limited to the main topics covered in the curriculum.	Beginning level of understanding, lacks command of the basic knowledge base.	Basic level of understanding, lacks command of the basic knowledge base.	
Applies discipline- specific and broader knowledge in a range of contexts and critical decision- making	Engages in a forward- thinking discussion about the primary field and closely related concepts from other areas make an impact.	Explains in detail how disciplinary knowledge and prior research in the field contributes to their study; fully aware of the implications of the current project fits in the discipline.	Addresses questions from multiple fields confidently but vaguely or with limited and some incorrect detail.	Explains in detail how disciplinary knowledge and prior research in the field contributes to their study; fully aware of the implications of the current project fits in the discipline.	Rarely includes or cites established knowledge in the field; fails to integrate disciplinary knowledge with relevant research and scholarship from other fields.	
Research Skills						
Successfully develops hypothesis-driven research	Forms hypothesis and experimental design to establish a long-term and scientifically significant research agenda.	Develops a convincing hypothesis and relevant research project.	Coherent hypothesis but weak experimental design.	Struggles to clearly state a hypothesis or defend their own hypothesis.	Fails to clearly state a hypothesis or defend their own hypothesis.	

Student Name:	
Student UIN:	
Program:	

BIMS Graduate Program Learning Outcomes Assessment ~ Final Rubric ~

Faculty Name: Committee Role: Date:

Research Skills (cont.)	Mastery (5)	Proficient (4)	Acceptable (3)	Progressing (2)	Emerging (1)	Score
Conducts methodologically sound and data-supported research	Shows a thorough understanding of the methodology and relevancy of the data; discerns why this was preferred.	Explains methodology and research design with attention to rigor and reproducibility.	Identifies research design and methods but does not justify their selection or effectiveness.	Has some comprehension of the methods and data collection needed in relation to the hypothesis.	Lacks comprehension of the methods and data collection needed in relation to the hypothesis.	
Effectively participates as a member of a research team	Contributes to the lab by originating discussion topics and presenting new/innovative ideas from professional development activities.	Engages in discussion that supports lab and individual progress on research projects; participates in all scheduled meetings.	Attends scheduled lab meetings with only occasional absences; offers ideas when directly involved in the lab.	Mildly contributes with input or feedback on team projects; may even lack decorum or become hostile to.	Rarely contributes with input or feedback on team projects; may even lack decorum or become hostile to.	
Exhibits independence as a researcher	Demonstrates the self- efficacy to acquire the knowledge, skills, and abilities to persist in research activity; motivated to engage in new and innovative approaches.	Takes initiative and is persistent in being productive in research activity; completes all degree milestones on time and may achieve more than expected.	Makes satisfactory progress on individual project(s) while still asking questions and accepting necessary critique and guidance; will accept additional tasks.	Takes little initiative to engage fully in one's own research and training; makes some progress without specific direction, presenting new/innovative ideas from professional development activities.	Lacks initiative to engage fully in one's own research and training; makes little or no progress without specific direction, presenting new/innovative ideas from professional development activities.	
Ethical Reasoning				•		
Follows all biosafety, animal use, and other relevant practices	Develops the research design in accordance with responsible conduct of research; gains all approvals prior to initiating research and ensures compliance from start to finish.	Learns policies and practices prior to engaging in research and completes all training; resolves ethical concerns as they arise	Identifies ethical issues but may or may not resolve the ethical concern before corrective action is necessary; completes all required training.	Struggles to participate in required training and obtain necessary approval prior to conducting regulated research activity.	Fails to participate in required training and obtain necessary approval prior to conducting regulated research activity.	
Chooses ethical courses of action in research and practice	Recognizes ethical issues and formulates an approach prior to engaging in research.	Comprehends the ethical issues and seeks a resolution.	Identifies and attempts to respond to ethical issues.	Struggles to identify ethical issues.	Fails to identify ethical issues.	

COMMENTS: