Friendly Reminder:

For your thesis defense, it is expected that you bring the following forms:

Faculty Evaluation of Graduate Student Learning Outcome (one for each committee member; see pages 2-3)

Written Dissertation Approval From (see page 4)

Copy Right Form (see pages 5-6)

Graduate Student Self-Evaluation Experiences & Scholarship (see pages 7-8)

Graduate Student Self-Evaluation Learning Outcomes (see pages 9-10)

Annual Graduate Student Self Evaluation (see page 11)

Biochemistry PhD Graduation Questionnaire (see page 12)

Graduate Exit Interview Form (see page 13)

Updated CV or Resume (provide a copy to each committee member and one to Rafael)

Please note that the Final Exam Form for your defense will be email to your PI and Rafael from OGAPS. Your PI will be responsible for brining the final exam form on the day of your defense.

Please return all forms to Rafael in BICH room 103C

Student Name: Student UIN:	Faculty Evaluation of Graduate Student Learning Outcomes	Faculty Name:, Member
Dept/Major: Degree Being Pursued:		Dept Affiliation: Inside , Outside
Distance Education Student (Circle One): Yes / No		

Product of Research, if Applicable (Circle One): Thesis / Dissertation / Record of Study

1		be completed	for ALL stude	nts. Check the box most appropriate for this student.			
	How well does the student meet			*USE THIS DESCRIPTION TO CALIBRATE EXPECTATIONS*			Not
	your expectations in the	Well Above	Above	Meets Expectations	Below	Well Below	Obser
	following areas?	(5)	(4)	(3)	(2)	(1)	able
1	Exhibits a coherent understanding of			Articulates foundational concepts across the breadth of the discipline; distinguishes between opposing theoretical	Poor clarity on critical concepts	No clarity on critical concepts	
1	discipline-specific knowledge?			frameworks; some clarity			
	Applies discipline-specific knowledge in a range of contexts to solve problems and make decisions?	relevant info; ideal	Applies most relevant info; strong resolution	Applies relevant concepts to justify decisions; may not apply all relevant information; may not come to the ideal resolution	Relies on some irrelevant info; poor resolution	Relies on irrelevant info; incorrect resolution	
	Uses a variety of sources and alternative views when critically evaluating ideas and information?	considers all views; critical	Strong sources; considers most views; some critical eval	Sources used to evaluate are both relevant and applicable; student seeks multiple perspectives; information considered is generally thorough; some critical thought applied	Mediocre sources; lacking viewpoints; little critical eval	Poor sources; missing critical viewpoints; no critical eval	
4	Communicates effectively?	Crystal clear; seamless transitions	Very clear; smooth transitions	Central message is clear and consistent in written and oral form; ideas presented in logical order; transitions between ideas are adequate	Lacking clarity or order; poor transitions	Unclear; illogical; no transitions	
5	Teaches or explains the subject matter in their discipline to a range of audiences?	Ideal delivery; ideal for audience	Strong delivery; well designed for audience	Delivery techniques and language choices are appropriate for the audience; student has the ability to transition between different audiences; may not be flawless or smooth	Mediocre delivery; somewhat appropriate for audience	Poor delivery; inappropriate for audience	
6	Exhibits proficiency in technology appropriate to solve problems in their discipline?	Expert proficiency	Advanced proficiency	Demonstrates basic knowledge of, and basic proficiency in technology and tools specific to the discipline; may rely on others for some guidance	Lacking proficiency	No proficiency	
7	Chooses ethical courses of action in research or practice?		Addresses most ethical questions	Recognizes ethical questions; attempts to apply ethical perspectives & concepts to research and practice	Doesn't recognize all ethical questions	Doesn't recognize any ethical questions	

College of Agriculture and Life Sciences, MS 2402

Student l	JIN:		

INSTRUCTIONS: The following section should be completed for MS-Thesis Option students & Doctoral Students completing a dissertation.

How well does the student meet your expectations in the following areas?	Well Above (5)	Above (4)	*USE THIS DESCRIPTION TO CALIBRATE EXPECTATIONS* Meets Expectations (3)	Below (2)	Well Below (1)	Not Observ able
Develops clear, hypothesis-driven, or data supported research plans?	•	Strong clarity; well supported by data	Articulates research questions supported by data, or relying on clear hypotheses; may not identify all complexities and nuances inherent to the proposed research	Somewhat clear; mildly supported by data	, and the second	
Conducts valid, data-supported and theoretically consistent research?	Ideal controls, quality or reproducibility; ideal analysis	Strong controls, quality or reproducibility; strong analysis	Executes research with appropriate controls, sufficient quality and reproducibility, and valid analysis using methods appropriate to the discipline	Poor controls, quality or reproducibility; Poor analysis	No controls, quality or reproducibility; Incorrect analysis	
Effectively disseminates research results in appropriate contexts?	Expertly conveys relevance or applicability	Conveys relevance or applicability with skill	Information presented attempts to distill a large body of knowledge into relevant points; demonstrates relevance of completed research; articulates broader applicability of research	Poor ability to convey relevance or applicability	Unable to convey relevance or applicability	
Did this student pass his/her final defense? (Circle One) Yes No Would you recommend that this student go on to a Ph.D. program or pursue a post-doc position? (Circle One) Yes No						

Office of Graduate and Professional Studies





Student's Name:	lent records)		
Degree (check one):	Ph.D. (Dissertation)	Dr. PH. (Disser	tation)
	Ed.D. (Record of Study)	DE.n. (Record	of Study)
Date of Defense: (mm/dd/yy	or Exempt): Toda	y's Date (<i>mm/dd/yy</i>):	
Anticipated Date of Graduat	tion (Month Year):		
Dissertation or Record of St	udy Title:		
scope and quality as a disser the document to be submitted	ppointed committee have read and examin rtation or record of study for this doctoral ed to Thesis and Dissertation Services for members of the committee with at most	degree and indicate our approcessing and acceptance	oproval of the content of e, OR we indicate our
		Approve	Disapprove
Chair:			
,			
Student Contact Informat	ion:		
UIN	<u>-</u>	Student's Email Address	

The student must submit this signed approval form and a PDF file of the thesis to Thesis and Dissertation Services for review. Students must clear Thesis and Dissertation Services within a year of their final defense. To graduate in a given semester, a student must meet the scheduled deadline for submittal of the signed approval form and the thesis in final form. The Office of Graduate and Professional Studies posts a calendar for each semester, and these dates must be observed.

PLEASE TAKE THIS ORIGINAL SIGNED APPROVAL FORM TO THESIS AND DISSERTATION SERVICES.

Office of Graduate and Professional Studies



THESIS, DISSERTATION, AND RECORD OF STUDY COPYRIGHT AND AVAILABILITY FORM

Student's Name:		Student's UIN:
Degree: (check one)	Master's	Doctoral Date of Graduation (Month Year):
	i	AMU COPYRIGHT AGREEMENT
	natter to be included	ained and attached hereto a written permission statement from the owner(s) of each in my thesis, dissertation, or record of study (hereafter referred to as ETD), allowing
I certify that the version	I submitted is the sa	ne as that approved by my advisory committee.
		s agents the non-exclusive license to archive and make accessible, under the conditions cord of study in whole or in part in all forms of media, now or hereafter known.
		or record of study is an educational record as defined in the Family Educational 32g), I consent to disclosure of it to anyone who requests a copy.
		ight of the thesis, dissertation or record of study. I also retain the right to use in future this thesis. dissertation. or record of study.
	ACKNO	VLEDGMENT OF CONTENT STATEMENT
complying with copyright as my own. I further adn	ht, Institutional Revi nit that any optional/	lity to ensure the data and information presented in the ETD are correct and accurate, w Board and other applicable laws/requirements. Any errors therein are acknowledged ersonal information exposed in the ETD was included willingly and knowingly. I the University Libraries and/or ProQuest, I will not have access to it for corrections of
	A	AILABILITY OPTIONS* (check one)
(Immediate Release)	Release the ETD in	nediately for worldwide access on the Internet.
contractual terms, e (Document Only Hole	etc., and then release d) Restrict access to	the ETD for two years for purposes of patent consideration, compliance with research the ETD for worldwide access on the Internet. Please explain below. The ETD document for two years for purposes of publication, etc., then release the ETD the metadata will be available during the embargo period). Please explain below.
		d, provide the status of any actions already taken to prepare for worldwide release, and e actions (e.g., filing of patent disclosure form, etc.). Attach additional pages if needed:
*See reverse side for additi	onal explanation of ea	n hold type, as well as information regarding requests for extensions. Research/data which
		a limited embargo period, should not be included in the ETD.
		CHAIR/CO-CHAIR'S SIGNATURE
I have discu	ussed the availability	choices with my student, and I approve of the choice the student has made.
Chair or Co-Chair's Sign	nature:	Date
	STUDENT A	VAILABILITY & COPYRIGHT AGREEMENT
above and understand th	e ETD will be releas ubmitted and approv	wright agreement regarding my ETD. I agree to the ETD availability option I selected and immediately following the expiration of the embargo period unless a written request d. I understand that the availability option is my choice and that there are publishing
Student's Signature:		Date

Texas A&M University Electronic Theses and Dissertations (ETD)

How to Choose an Availability Option

Texas A&M University's Policy

All Texas A&M University Electronic Theses/Dissertations (ETDs) will be made available immediately after graduation worldwide on the Internet via Texas A&M University Libraries. Availability may be delayed temporarily for circumstances such as patent consideration, compliance with research contractual terms, publication issues, etc.

What comprises an ETD record?

An ETD record includes several elements, as noted below:

- *Metadata* Data which describe the ETD record. These include, but are not limited to, the title, abstract, author, committee, keywords, etc.
- Document The ETD primary document which describes the independent research study that was undertaken to partially fulfill requirements for the degree sought generally a single PDF file.
- Supplemental files Files which accompany the ETD document, are intended for public access, and provide additional details of the research (e.g., data sets, movie clips, etc.).
- License files Files which describe the license signed by the student author at the time of submission, granting Texas A&M University (or other parties) certain, limited rights for use.
- Administrative files Files provided to the Office of Graduate and Professional Studies for administrative processing purposes and/or for purposes of being included as part of the graduate student record (e.g., Written Thesis/Dissertation Approval Form, Copyright & Availability Form, etc.). These files are not made available to the public along with the ETD record.

What is a "Full Record Hold," and when would I choose it?

If you need the full ETD record to be withheld from public access due to patent considerations or to comply with research contractual terms, select the "Full Record Hold". The ETD record (not including administrative files) will be released immediately after two years unless an extension is requested and approved. Do NOT include in the ETD research that would preclude worldwide release for an extended period of time or permanently (e.g., sponsored research, national security, personal risk).

What is a "Document Only Hold" and when would I choose it?

If you are submitting material to a publisher who has restrictive pre- or post-publication policies (e.g., restricts Internet access to material prior to publication), select the "Document Only Hold". The ETD metadata will be made available for open access immediately following graduation via the Texas A&M University Libraries and ProQuest (for dissertations), but the document and supplemental files will be restricted during the embargo period. The ETD document and supplemental files will be released immediately after two years unless an extension is requested and approved.

How do I extend a hold?

A hold may be extended for up to two years (for the first extension) and then one year at a time for any additional extensions. The request must be made prior to expiration and appropriate justification must be included. Each request for extension will be reviewed on a case-by-case basis. Please complete and submit the "Request for Extension of Thesis/Dissertation Hold" form.

Graduate students and faculty (when sponsored research) bear responsibility for requesting extensions. For holds, the graduate student and faculty chair will be contacted by email prior to the expiration date of the hold. A timely response is important in order to extend the hold period. The full ETD record will be released following the expiration date if no response is received after several attempts to contact the graduate student and faculty chair.

For additional questions or concerns regarding availability options, please contact Thesis & Dissertation Services at thesis@tamu.edu or 979-845-3631.

Student Name: Graduate Student Self-Evaluation Student UIN: Experiences and Scholarship				Maior				
Stu	stance Education Student (Circle One): Yes / Nudent Enrollment Status (Circle One): Part-timeduct of Research, if Applicable (Circle One): 1	o e / Full-time	P Deg	ree Being Pursue	ed:			
	Please provide the <u>NUMBER</u> of the following of program:	experiences you've had while in your <u>CURRENT</u> degree	DOM Affiliated w/ Course	ESTIC Not Affiliated w/ Course	INTERNA Affiliated w/ Course	ATIONAL Not Affiliated w/ Course		
1 2 3 4	Internship or field experience (knowled Study abro Development of creative works (e Research e	dge is applied outside of the classroom; paid or unpaid) ad (international) or study away (domestic) experience ag. multimedia development, curriculum development) experience (unrelated to thesis or dissertation research) ment experiences you've had during your program (e.g.						
5	• • • •	search lab assignments training you in new techniques, G.R.A.D. Aggies, training certificates you've obtained):						
	Please provide the <u>NUMBER</u> of teaching expendence of teaching expendence of the program:	iences you've had while in your <u>CURRENT</u> degree	Total # of Different Courses		LA Total # of Different Courses			
6	Respo	nsible for instruction of a course lecture or lab (e.g. GAT)						
7		Assisted course instructor (e.g. GANT)						
8	Have you ever participated in a teaching deve	lopment program through the Academy for Future Facul	ty (AFF) at TAMU	P Yes ☐ or No				
	Please provide the <u>NUMBER</u> of oral or poster degree program:	presentations you've made while in your <u>CURRENT</u>	University or Department Events	Regional Scientific Meeting	National or Intern			
9		Oral presentations made at each of the following venues						
10	Pc	ster presentations made at each of the following venues						
	Please provide the <u>NUMBER</u> of publications of your <u>CURRENT</u> degree program:	major writing achievements you've made while in	Subm	nitted	Accepted, In-Pro	ess or Published		
11		Refereed or peer-reviewed scientific publications						

College of Agriculture and Life Sciences, MS 2402
Form Revised: January 2018

Other writing intensive experiences

Popular press articles

Non-refereed or editor-reviewed scientific publications

Date Form Completed:_____

	Please provide the <u>NUMBER</u> of grant proposals or extramural funding (not scholarships or financial aid) you've been awarded while in your <u>CURRENT</u> degree program:	Internal (i.e. TAMU		External (i.e. Outside TAMU) Awarded	
15	Grant proposals up to \$5,000				
16	Grant proposals ranging from \$5,001 to \$20,000				
17	Grant proposals over \$20,000				
	Please provide data about the <u>NUMBER</u> of awards or competitive fellowships and/or scholarships you have received while in your <u>CURRENT</u> degree program:	Department-level	College-level	University-level	National or International
18	Awards (teaching, research, or presentation)				
19	Competitive fellowships or scholarships (based on academic merit, not financial need)				
20	Please list any prestigious awards, fellowships or scholarships (if applicable):				
21	Please list any ethics training courses you have completed other than the ethics training for employees required of graduate assistants (e.g. IRB, IACUC, etc.):				
22	When did you <u>begin</u> your current degree program (semester and year)?				
23	When do you expect to graduate from your current degree program (semester and year)? Are there any major factors that have (or will) prolong your degree?				
ı					
24	List any professional organizations related to your discipline in which you are a member:				
25	Have you accepted a position of employment following graduation? Yes \square or No \square	Position Title: Employer: Anticipated Sala	ry (Optional):		
26	Do you plan to pursue additional education beyond this degree? Yes □ or No □	Educational Goa	ıls:		
27	If you answered yes above, have you been admitted into a graduate or professional school? Yes □ or No □	Institution and F	Program Details:		

Student UIN:

Student Name:	Graduate Student
Student UIN:	Learning O

irac	luate	Stud	ent	Sel	f-Eval	uati	on
	Lea	rning	ξ Οι	utco	omes	,	

Dept.	
Major:	
Degree Being Pursued:	

Distance Education Student (Circle One): Yes / No

Student Enrollment Status (Circle One): Part-time / Full-time

Product of Research, if Applicable (Circle One): Thesis / Dissertation / Record of Study

INSTRUCTIONS: Check the box most appropriate for your competency level.

How well do you meet the			*USE THIS DESCRIPTION TO CALIBRATE EXPECTATIONS*			
following learning outcomes	Well Above	Above	Meets Expectations	Below	Well Below	I Don't
expected by TAMU?	(5)	(4)	(3)	(2)	(1)	Know
Exhibits a coherent understanding of discipline-specific knowledge?	Ideal clarity on critical concepts	Strong clarity on critical concepts	Articulates foundational concepts across the breadth of the discipline; distinguishes between opposing theoretical frameworks; some clarity	Poor clarity on critical concepts	No clarity on critical concepts	
Applies discipline-specific knowledge in a range of contexts to solve problems and make decisions?	Applies all relevant info; ideal resolution	Applies most relevant info; strong resolution	Applies relevant concepts to justify decisions; may not apply all relevant information; may not come to the ideal resolution	Relies on some irrelevant info; poor resolution	Relies on irrelevant info; incorrect resolution	
Uses a variety of sources and alternative views when critically evaluating ideas and information?	Ideal sources; considers all views; critical evaluation	Strong sources; considers most views; some critical eval	Sources used to evaluate are both relevant and applicable; student seeks multiple perspectives; information considered is generally thorough; some critical thought applied	Mediocre sources; lacking viewpoints; little critical eval	Poor sources; missing critical viewpoints; no critical eval	
4 Communicates effectively?	Crystal clear; seamless transitions	Very clear; smooth transitions	Central message is clear and consistent in written and oral form; ideas presented in logical order; transitions between ideas are adequate	Lacking clarity or order; poor transitions	Unclear; illogical; no transitions	
Teaches or explains the subject matter in their discipline to a range of audiences?	Ideal delivery; ideal for audience	Strong delivery; well designed for audience	Delivery techniques and language choices are appropriate for the audience; student has the ability to transition between different audiences; may not be flawless or smooth	Mediocre delivery; somewhat appropriate for audience	Poor delivery; inappropriate for audience	
Exhibits proficiency in technology 6 appropriate to solve problems in their discipline?	Expert proficiency	Advanced proficiency	Demonstrates basic knowledge of, and basic proficiency in technology and tools specific to the discipline; may rely on others for some guidance	Lacking proficiency	No proficiency	
Chooses ethical courses of action in research or practice?	Addresses all ethical questions	Addresses most ethical questions	Recognizes ethical questions; attempts to apply ethical perspectives & concepts to research and practice	Doesn't recognize all ethical questions	Doesn't recognize any ethical questions	

INSTRUCTIONS: The following section should be completed if you are a MS-thesis option student or doctoral student completing a dissertation.

Check the box most appropriate for your competency level.

How well do you meet the ollowing learning outcomes expected by TAMU?	Well Above (5)	Above (4)	*USE THIS DESCRIPTION TO CALIBRATE EXPECTATIONS* Meets Expectations (3)	Below (2)	Well Below (1)	I Don'
Develops clear, hypothesis-driven, or lata supported research plans?	Ideal clarity; well supported by data	Strong clarity; well supported by data	Articulates research questions supported by data, or relying on clear hypotheses; may not identify all complexities and nuances inherent to the proposed research	mildly supported	Unclear; unsupported by data	
Conducts valid, data-supported and heoretically consistent research?	Ideal controls, quality or reproducibility; ideal analysis	Strong controls, quality or reproducibility; strong analysis	Executes research with appropriate controls, sufficient quality and reproducibility, and valid analysis using methods appropriate to the discipline	reproducibility;	No controls, quality or reproducibility; Incorrect analysis	
iffectively disseminates research esults in appropriate contexts?	Expertly conveys relevance or applicability		Information presented attempts to distill a large body of knowledge into relevant points; demonstrates relevance of completed research; articulates broader applicability of research	Poor ability to convey relevance or applicability	Unable to convey relevance or applicability	

College of Agriculture and Life Sciences, MS 2402

Annual Graduate Student Self Evaluation

Department of Biochemistry and Biophysics, Texas A&M University

The following information and a <u>current CV/Resume</u> is to be provided to your committee on the day of your committee meeting. Please submit the form and CV/Resume to the Graduate Programs Office in Bio/Bio 103C after your meeting.

Student		Date entered PhD program						
Report date								
Committee Chair			hair (if Appli	icable)				
Number of publications or other major writing a current degree program.			achievements while in		Subi	mitted	Accepted/ published	
			reed publication					
		Non-refe	reed publication					
			Other (spec		. 1	, .	1 .	
Number of oral or poste	•	ntific	National	Regiona	-	t/Univ	Research	
meetings while in currer			Internation	al Meeting	5		Competition	
	Oral prese Poster prese							
Grant proposals that <u>yo</u> while in current degree				_	olarships	& finar	ncial aid),	
	other TAMU (e.g. travel grant					A	ward amount	
	Extern	al						
Teaching experiences while in current degree pr					Total # different courses		Total # semesters	
			As Bio/Bio TA Other					
Research experiences u Study Abroad:	nrelated to dissertation	researcl	h while in cu	ırrent degree	prograr	n, e.g. i	nternships or	
Awards (specify)	Departmental	College	-level	University le	evel N	National/International		
Rate your proficiency in	ciency in the following areas Proficie		ent	Acceptable	D	evelopi	ing	
Literature or publication searches				-	-			
Statistical analysis								
	g and or presentation tools							
	ology within your discipline							
(specify which software,	rtecnnology)							

Texas A&M University Biochemistry PhD & MS Graduation Questionnaire

The Biochemistry and Biophysics Department is compiling data to determine whether the program's objectives have been met and on future plans after graduation.

Thank you for providing this information and congratulations on your graduation!

General Information:			
Name:Last Name			, Gender:
Last Name	Maiden Name	First Name	Middle name
New Address:			
C'. C. 7			
City, State, Zip:	City	State	Zip
Phone #'s:			
Phone #'s:Cell		Home	
Permanent Address:			
City State 7im			
City, State, Zip:	City	State	Zip
Phone #'s:Cell			
Cell		Home	
Non-TAMU Email Address:			
D D ::	N P PIGU	Ma Tuo Diay	MG NEO DIGIL
Degree Receiving:			MS NTO BICH
	Graduation Date:		
Committee Chair:			
Employment after Graduation:			
			700
Employer:			, Effective Date:
Position:			
Address:			
City, State, Zip:			
	City	State	Zip
Work Phone #:		, Email:	

After completing form please return to Biochemistry/Biophysics Department's Administrative Office BioBio Building room 103, fax to 979-845-9274 or email to dgau@tamu.edu

Department of Biochemistry & Biophysics Graduate Exit Interview Program Evaluation

Student Name:		Committee Chair:
Student UIN:		Committee Co-chair:
Graduation Date:	Degree:	Date form completed:

How well did the Bio/Bio graduate program meet your expectations in the following areas?	Above Expectations	Meets Expectations	Below Expectations	Not Observable
Nurtured development of a coherent understanding of discipline-specific knowledge?				
Learned to apply discipline-specific knowledge in a range of contexts to solve problems & make decisions?				
Learned to apply a variety of sources and evaluate multiple points of view to analyze and integrate information?				
Learned to communicate more effectively?				
Learned to teach or explain the subject matter in discipline to a broad range of audiences?				
Learned technology appropriate to solve problems in discipline?				
Were taught ethical courses of action in research and practice?				
Learned to develop clear, hypothesis-driven research plans?				
Learned to conduct valid, data-supported and theoretically consistent research?				
Learned to effectively disseminate research results in appropriate contexts?				

What do you think are the strengths of the Bio/Bio grad program?

What needs to be improved, added or removed?