## **FDSC Graduate Student Assessment Tool**

Date:	Degree Program (check box):	MS	PhD
Student	Graduate committee		
Name:	member name:		

Upon the completion of the graduate program in food science or nutrition, students will:

## 1. Technical Knowledge

Demonstrate advanced knowledge and understanding in their area of emphasis.

Demonstrate some knowledge across food science and/or nutrition disciplines outside of their core specialty area, commensurate with coursework completed during the degree.

## 2. Research and Scientific Enquiry Skills

Demonstrate scientific enquiry, problem solving and critical thinking skills through their thesis or dissertation topic.

## 3. Communication Skills

Demonstrate competency in written communication through their thesis/dissertation.

Demonstrate competency in oral communication through their required seminars and oral defense.

General Instructions: Assess the student level for each of the skills and record it by placing a mark in the cell best representing the student's skill level

	Skill	Novice	Intermediate	Advanced	Expert
wledge	Technical Knowledge in core scientific area (food chemistry, microbiology, etc)	Knowledge is very narrow and in most cases inaccurate. When knowledge has be gained, it is based on unreliable sources. Understands current literature poorly.	Knowledge is narrow but in most cases accurate. Knowledge is mostly based on existing literature from reliable sources.	Knowledge is broad around the student area of expertize and is accurate. Knowledge is routed in existing literature.	Knowledge is advanced in a variety of topics around the student's area of expertise. Knowledge is based on recent literature. Understands the existing literature well enough to be critical.
Technical Knowledge	Technical knowledge outside of the core research area.	Knowledge in other core areas of food science and/or nutrition (other than specialty) is cursory. Knowledge is less than would be expected after the completion of graduate level classes in food science and/or nutrition.	Displays some knowledge in other core areas of food science and/or nutrition (other than specialty). Knowledge is limited to a few disciplines.	Display knowledge in most food science and/or nutrition core areas. Knowledge is broad and indicative of mastery of graduate level courses taken.	Displays advanced knowledge in all food science areas discussed during the defense. Knowledge is broader than that obtained through graduate level classes and indicates a significant amount of self learning.

Technical knowledge is assessed during proposal or final defense. Questioning by all committee members will assist the rater in determining the student's depth of knowledge within and outside their specialty area.

General Instructions: Assess the student level for each of the skills and record it by placing a mark in the cell best representing the student's skill level

student's skil	Skill	Novice	Intermediate	Advanced	Expert
	JKIII	INDVICE	miermeulate	The research topic and	LAPEIT
	Topic Selection	The research topic is defined but is general and lacks justification. The research does not seem to make hypotheses and objectives are vague. It is unlikely for the research to have an impact of the field on study.	The research topic and justification for the research need are defined. Hypotheses and objectives are stated but lack clarity. The research topic is not very novel and potential impact is limited.	justification for the research need are defined. Hypotheses and objectives are for	The research topic and justification for the need are well defined. Hypothesis and objectives are clear. The topic is innovative and the research has the potential to be impactful
quiry Skills	Design Process	Research design demonstrates a poor understanding of the methodologies or theoretical framework. The methods selection do not address the objectives.	Critical elements of the methodology or theoretical framework are missing, incorrectly developed or unfocused.	Critical Elements of the methodology or theoretical framework are appropriately developed, however, more subtle elements are ignored or unaccounted for.	All elements of the methodology or theoretical framework are skillfully developed. Appropriate methodology or theoretical frameworks may be synthesized from across disciplines or sub disciplines.
Reseach an	Quantitative Skills	Displays poor quantitative skills. Does not use statistics or uses statistics incorrectly. Does not master the basics of experimental design. Lists results but they are unorganized	Displays average quantitative skills. Uses statistics, mostly correctly, but does not necessary understand the basis for the tests performed. Has some knowledge of experimental design. Organizes results but the organization is not effective in revealing important findings.	Displays good knowledge of both experimental design and appropriate data analyses for the data at hand. Understands the basis for the tests performed. Organizes results to reveal important findings.	Displays outstanding knowledge of both experimental design and statistical analysis techniques. Uses some more advanced techniques for data analysis and/or visualization which allows the reveal of insightful results.
	Conclusions	States ambiguous, illogical or unsupportable conclusions from research findings.	States general conclusions that because of their generality, also apply beyond the scope of the research findings.	States conclusions focused solely on the research findings. The conclusions arise specifically from and respond specifically to the research findings.	States conclusions that are a logical extrapolation from the research findings
	Limitations and Implications	Presents limitations and implications, but they are possibly irrelevant and unsupported by the research.	Presents relevant and supported limitations and implications	Discusses relevant and supported limitations and implications.	Insightfully discusses in detail relevant and supported limitations and implications.
	Graduate committees use	the thesis, the slide pre	esentation for the oral	defense to make a de	termination of the

Graduate committees use the thesis, the slide presentation for the oral defense to make a determination of the student research skills including quantitative skills, scientific enquiry, critical thinking and problem solving skills.

General Instructions: Assess the student level for each of the skills and record it by placing a mark in the cell best representing the student's skill level

student's skill			P .		-
	Skill		Intermediate	Advanced	Expert
=		•	Organizational pattern	Organizational pattern	Organizational pattern is
LC L		'	is intermittently	is clearly and	clearly and consistently
ij		- · <b>,</b> - · · · · · · · · · · · · · · · · · ·	observable within the	•	observable, is skillful and
E E	Organization/flow	· ·	presentation.	within the	makes the content of the
Ē		not observable within		presentation.	presentation cohesive.
Se		the presentation.			
Oral Communication skills (Thesis/Dissertation presentation)					
2		0 0	Language choices are	Language choices are	Language choices are
ō		· · · · · · · · · · · · · · · · · · ·	mundane and	thoughtful and	imaginative, memorable,
五		• •	commonplace and	generally support the	and compelling and
.ta		effectiveness of the	partially support the	effectiveness of the	enhance the effectiveness
ē		presentation. Language		presentation. Language	•
SS		is not appropriate to		in presentation is	Language in presentation
Ö	Language/delivery	the audience. Presenter	•	appropriate to	is appropriate to audience.
/s	-abaabe, actively	is difficult to	appropriate to	audience. Presenter is	The presenter is
Sis		understand most of the			enthusiastic and
e e			difficult to understand	and shows some level	professional.
F			some of the time.	of enthusiasm.	
s (			Presenter is not		
		_	enthusiastic.	_	· -
AS S		Ц	L	· ·	·
_			Visuals are clear and for		Visuals are pleasing and
.0		•	•	well organized and for	professionally organized.
at		Fonts are too small or	organized. Slide	the most part	Contain appropriate
i.		colors show poor	organization shows	aesthetically pleasing.	number of graphs, figures,
5		contrast. Visuals are not	•	Slides are indicative of	pictures and illustration.
Ē	Clarity, legibility and visual		(e.g. too much text).	an experienced	Virtually no grammatical
Ē	designs		Overall, there are few	presenter and contain	errors.
ō		grammatical errors	illustrations. Some	almost no grammatical	
Ö			grammatical errors	errors. Efficient use of	
Т				pictures, graphs, tables	
ō				and illustrations.	· <del>-</del>
	The student's oral commun	ication competencies	will be accessed on mu	ultiple occasions durin	g the graduate program

The student's oral communication competencies will be assessed on multiple occasions during the graduate program.

General Instructions: Assess the student level for each of the skills and record it by placing a mark in the cell best representing the student's skill level

tudent's skil					
	Skill	Novice	Intermediate	Advanced	Expert
	1	Uses appropriate	Uses appropriate and	Uses appropriate,	Uses appropriate,
		content and relevant	relevant content to	relevant, and	relevant, and compelling
		content to develop	develop and explore	compelling content to	content to illustrate
	Content Development	simple ideas in some	ideas through most of	explore ideas within	mastery of the subject and
⊆	Content Bevelopment	parts of the work.	the work	the context of the	convey the writer's
<u>:</u>				discipline .	understanding.
Written Communication skills (Thesis/Dissertation			] [		l 🗆
ē		Attempts to use a	Follows expectations	Demonstrates	Demonstrates detailed
<u> </u>		consistent system for	appropriate to Food	consistent use of	attention to and successful
۵		basic organization and	Science and/or	important conventions	execution of a wide range
<i>\</i> s		presentation of the	Nutrition for basic	particular to food	of conventions particular
įsi	Conventions	work.	organization, content	science and/or	to the discipline including
ž	Conventions		and presentation.	nutrition including basic	organization, content,
上				organization, content	presentation and stylistic
S				presentation and	choices.
■			_	stylistic choices.	
<del>S</del>					
⊆		Demonstrates an	Demonstrates an	Demonstrates	Demonstrates skillful use
. <u></u>		attempt to use sources	attempt to use credible	consistent use of	of high-quality, credible,
at		to support ideas in	and/or relevant	credible and relevant	relevant sources to
. <u>:</u>		writing.	sources to support	sources to support	support ideas developed
Ę	Sources		ideas that are	ideas developed in the	in the thesis or
Ē			appropriate for the	thesis or dissertation.	dissertation.
בַּ			discipline and scientific		
ō			writing.	ı –	ī —
0		Haralan suran Abak			
E C	1	Uses language that	Uses language that	Uses straightforward	Uses graceful language
Ĕ	1	sometimes impedes	generally conveys	language that generally	that skillfully
Ē	1	meaning because of	meaning to readers	conveys meaning to	communicates meaning to
>	Syntax and Mechanics	errors in usage.	with clarity, although	readers. The language	readers with clarity and
			writing may include	in the thesis or	fluency, and is virtually
	1		some errors.	dissertation has few	error-free.
	1			errors.	_
	I			L	
	<ul> <li>The second condition of the contract of the contr</li></ul>	to the constant and after the extent	and a second control of a	and the second of the second o	the selection was also addressed and

The student's written thesis is used as the basis for assessing student's written communication skill. At the time of the thesis or dissertation submission to the graduate committee, committee members will be asked to fill out the rubric prior to the defense date.