Dairy Science Ph.D. Requirements

To complete the Ph.D. degree in the Department of Dairy Science at University of Wisconsin-Madison requires successful completion of the following items. These must be completed in a timely fashion or the student will not be allowed to continue registration. Working closely with your advisor and committee are essential for successful completion of a Ph.D. Please note that minimum requirements are provided, however successful completion of the Ph.D. requires achievement of the standing of demonstrated scientist, through your Ph.D. program and by making a significant research contribution to the scientific literature.

- **I.** Form a Ph.D. mentor and examination Committee (by end of 1st semester).
- **II.** Meet with your Ph.D. Committee. Approve coursework and immediate research plans (by end of 2nd Semester)
- **III.** Schedule preliminary examination and file request for preliminary examination (by end of 4th semester).
- IV. Complete Written Preliminary Examination, Complete Oral Preliminary Examination (by end of 5th semester).If passed, Warrant should be signed and returned to Graduate School. You will be a dissertator.
- V. Complete research and thesis. Regular meetings with your Committee are expected.
- **VI.** Request for final examination (includes documentation that exam requirements have been met).
- **VII.** Final Defense and Examination.

The following forms must be completed, signed, and returned to departmental student services coordinator at the proper times.

Be sure to keep a copy of all signed forms, warrants, etc.

I. Ph.D. Mentor and Preliminary Examination Committee (This form must be completed and approved by end of the first semester.)

Name of Student:	Student ID:	
Discipline:		

Major professor and four committee members are required. Additional committee members may also be selected.

	Name	Department
Major professor:		
Committee member #1:		
Committee member #2:		
Committee member #3		
Committee member #4		

APPROVALS

	Student	Date
Signed:		
	Major Professor	Date
Approved:		
		7
	Chair, Dairy Science Graduate Committee	Date
Approved:		

Instructions

- 1. A minimum of five faculty members are required. At least 3 of the committee members must be tenure-track faculty in the Department of Dairy Science.
- 2. One faculty member on the Committee must be from outside of the Dairy Science Department.
- 3. The graduate student requests the participation of the faculty on the committee.
- 4. The student, major professor, and chair of the Dairy Science Graduate Committee must approve of all members on this committee.
- 5. Changes to Ph.D. Committee must be submitted in writing to Graduate Committee.

Ph.D. Requirements - Course Requirements

II. Required Courses to be completed prior to or during Ph.D. study (This form must be completed and approved by the end of the second semester.)

				•			
Student:				Student ID:			
A. Biochemis	try (must	require Or	ganic Chemistry a	as a prerequisi	te):		
	Dept.	Course #	Course Title		Credits	Grade	Institution
Biochemistry	Вори.	Course III			Cicaits	Grade	mouton
B. Statistics a 1. A cours 2. A calcu	e in statis	tics (300 lev	el or above)				
	Dept.	Course #	Course Title		Credits	Grade	Institution
Statistics							
Calculus							
	(300 leve minant or	el or higher, a animal nutr	at least 2 credits, grition, animal physic		y cattle ma	nageme	nt.
	Dept.	Course #	Course Title		Credits	Grade	Institution
Genetics							
Nutrition							
Physiology							
Management							
 Education Technical 	onal princt al Writing	iples (DS 79 g course or W	rse in 2 of the 3 fol 9, Teaching or Exter Vriting Practicum by of Science, History	ension Practicu			,
Skill	Dept.	Course #	Course Title		Credits	Grade	Institution
1.							
2.							
APPROVA	ALS						
	Student					Date	
Signed:							
Approved:	Major P	Professor	Date				
	Chair, I	Dairy Scienc	e Graduate Comn	nittee		Date	
Approved:							

Instructions for Plan of Study (see next page for form to be completed)

Students must meet all Graduate School and Departmental requirements.

Students should discuss planned coursework with major professor and Ph.D. committee.

Departmental Requirements:

1. Minimum of 51 graduate credits (semester credits, courses numbered 300 or greater) after the BS degree. A minimum of 32 of these credits must be taken while a graduate student at UW-Madison (Minimum Graduate Residence Credit Requirement).

NOTE: Courses taken post-BS as a Special Student (not enrolled in a graduate program) do NOT automatically count toward a graduate degree. To use these credits toward a graduate degree, the student should obtain approval of the department and graduate school PRIOR to taking the courses.

- 2. At least 50% of the graduate coursework (26 credits) must be in courses designed for graduate work. In other words, courses numbered ≥ 700 or courses numbered 500-699 that are composed of at least 50% graduate students or courses that assess graduate students separately from undergraduates.
- 3. Minimum 3.0 GPA (B average) in all graduate coursework taken at UW-Madison.
- 4. Minimum of 12 Credits of Dairy Science 990 (Research) with a grade of B or better.
- 5. Graduate Seminar: A grade of B or better in Departmental Graduate Seminar (DySci 900 section 001) is required in the Spring Semester of each year.
- 6. Students should be advised that the above represent minimum requirements. Most students require coursework, research and time in excess of the minimum to successfully complete the Ph.D. degree. In addition, Ph.D. committees may suggest additional courses.
- 7. Prior to attaining dissertator status, full time students should register for 8-15 total credits (courses, seminars and research) per semester. Students conducting research should register for at least 1 credit of Dairy Science 990 during each semester when research is conducted.
- 8. After attaining dissertator status, the student must register for 3 credits per semester until graduation. During Spring Semester, 1 of these must be Graduate Seminar (900, section 1).
- 9. A minor is not required in the Dairy Science Department. However, a minor or graduate certificate in specific areas can provide breadth to a graduate student and can be a positive for future applications for faculty or company positions. The Ph.D. Committee or Major Professor may request a minor for a Ph.D. student.
- 10. Teaching (or extension) practicum 799 is encouraged and counts toward the credit total in points #1 and #2 above.

$\hbox{III. Plan of Study} \\ \hbox{(This form must be completed and approved by the end of the second semester.)}$

Student:		Student ID:		
	OSED GRADUATE COURSES.			
	ld total at least 51 semester hours, with bered 500-699 that are composed of at 1			
	lents separately from undergraduates. A			
Course	Description		Credits	Institution
ourse	Description		cicuits	Institution
APPROVAI	LS:			
	Student:			Date
Signed:				
	Major Professor:			Date
Approved:				
	Committee Members:			
Signed:				
	Chair, Dairy Science Graduate Co	mmittee		Date
Approved:				

Ph.D. Requirements - Request for Preliminary Examination Warrant

IV. Request for Preliminary Examination (This form must be approved prior to the end of the Fourth Semester)

	Name	Signature	Date
Student:			
Major Professor:			

Student and major professor should complete indicated sections. Dairy Science Graduate Committee will verify that all departmental requirements have been met and request the Preliminary Exam Warrant.

GRADUATE DEPARTMENTAL SEMINAR (Dy Sci 900, Section 1, each Spring)

Fill in Semesters taken and grade. Last column is for Committee Use.

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Semester	Grade	OK (Office Use)

SEMINAR PRESENTATIONS (At least one prior to Preliminary Examination)

List Seminar presentations. Major Professor signature verifies satisfactory completion.

Date	Title	Location/Group	Major Prof. Signature

Checklist of requirements (For Office Use Only). Student should use this as a guide, but leave the OK column blank for office to use.

	Requirement	OK (Office)
1.	Certification form filed and approved	
2.	Preliminary Examination Committee approved	
3.	Satisfactory Progress on coursework plan	
4.	Minimum GPA of 3.0	

APPROVED

	Chair, Dairy Science Graduate Committee	Date
Approved:		

Ph.D. Requirements - Preliminary Examination Instructions

Instructions for Preliminary Examination

All Ph.D. students are required to pass a qualifying examination before the end of the fifth semester of their Ph.D. program, after the majority of their coursework is completed. The purpose of the qualifying examination is not to evaluate progress on the thesis project. The purpose of the qualifying examination is to assess the depth and breadth of knowledge and evaluate the candidate's ability for scientific reasoning.

The qualifying examination will include two components: a written examination followed by an oral examination. The format (timing, location, open/closed book) of the written and oral examinations shall be determined by the major professor, agreed upon by the members of the Ph.D. committee, and approved by the chair of the Dairy Science Graduate Committee. The Ph.D. committee will be responsible for both the written and oral exam questions. The oral examination shall take place within 4 weeks of completion of the written examination. After completion of the written and oral components of the qualifying examination, the Ph.D. committee will determine whether the candidate has passed the examination. In the event of a failed examination, the candidate may ask the Ph.D. committee for an opportunity to retake the examination. This request must be written, and it must be submitted no later than 4 weeks after the first oral examination. The chair of the Dairy Science Graduate Committee must be copied on the request. The second examination will be with the same Ph.D. committee, will include both written and oral components, and must follow the same format as the first examination. The second examination must be completed within 6 months of the first examination, and if the second examination is failed the candidate will be terminated from the Dairy Science graduate program.

Ph.D. Requirements – Plan for Preliminary Examination

V. Plan and Dates for Ph.D. Preliminary Examinations (This form must be approved prior to the end of the fourth semester.)

NT CC4 1 4	
Name of Student:	
Tuille of Students	

Plan	for	Pre	limin	arv	Exam	inat	tion:
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Date of Written Examination:

Date of Oral Examination:

APPROVALS:

	Major Professor:	Date
Approved:		
	Committee Members:	
Signed:		
	Chair, Dairy Science Graduate Committee	Date
Approved:	, ,	

Ph.D. Requirements - Request for Ph.D. Final Examination Warrant

VI. Proposed Ph.D. Final Examination Committee: (Note: This committee may be the same or different from Ph.D. Preliminary Examination Committee)

Name of Student:	
Discipline:	

- 1. A minimum of five faculty members are required. At least 3 members must be tenure-track faculty members from the Department of Dairy Science (see Appendix A for eligible faculty).
- 2. One faculty member must be from outside of the Dairy Science Department. The outside member must not be an affiliate of the Dairy Science Department

Major professor and four committee members are required. Additional committee members may also be selected.

	Name	Discipline	Department
Major professor:			
Committee member:			

APPROVALS

	Student	Date
Signed:		
	Major Professor	Date
Approved:		
	Chair, Dairy Science Graduate Committee	Date
Approved:	•	

VII. Requirements to be met prior to Ph.D. Final Examination:

	Name	Signature	Date
Student:			
Major Professor:			

Fill in indicated spaces. The Department will then use this checklist to verify that all requirements have been met and request a warrant from the Graduate School.

SEMINAR PRESENTATIONS (Total of 3 during Graduate Program)

List Seminar presentations. Signature of Major Professor verifies satisfactory completion.

Date	Title	Location/Group	Major Prof. Signature

DEPARTMENTAL SEMINAR since preliminary exam

Fill in Semesters taken and grade. Last column is for Committee Use.

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Semester	Grade	OK (Office Use)	

Checklist of Requirements (Office use)

Checkinst of Requirements (Office use)		
	Requirement	OK (Office)
1.	Passed preliminary exam	
2.	Completion of any deficiencies from preliminary examination	
3.	Completion of all coursework listed on certification form	
4.	Final Examination Committee approved	
5.	Completion of coursework plan, including 51 credits graduate coursework	
6.	Completion of 32 graduate credits at UW-Madison	
7.	Minimum GPA of 3.0	
8.	At least 12 Credits of research	
9.	Continuous enrollment since Preliminary exam	

APPROVED

	Chair, Dairy Science Graduate Committee	Date
Approved:		

Ph.D. Requirements – Potential Committee Members

APPENDIX A Faculty Eligibility for Dairy Science Ph.D. Committees

Faculty with Primary Appointment in the Department of Dairy Science (no restrictions)	Faculty with Secondary or Affiliate Appointments in Department of Dairy Science (can be major professor or member of Ph.D. committee with at least 3 faculty with Primary Appointment in Dairy Science)	Clinical Faculty and Academic Staff with Primary, Secondary, or Affiliate Appointments in Department of Dairy Science (can be 5 th member of Ph.D. committee)
Lou Armentano	Dorte Dopfer	Wayne Coblentz
Victor Cabrera	Daniel Gianola	Nigel Cook
Dave Combs	Brian Kirkpatrick	Mary Beth Hall
Paul Fricke	Garrett Oetzel	Pat Hoffman
Laura Hernandez	Jess Reed	Ken Nordlund
Pam Ruegg	Doug Reinemann	Other UW-Madison or
Randy Shaver	Other Tenure-Track Faculty	External Scientist if Approved
Amy Stanton	Member at UW-Madison	by Chair of the Departmental
Michel Wattiaux		Graduate Program
Kent Weigel		
Heather White		
Milo Wiltbank		