Guidelines for the Non-Thesis Masters in Animal Sciences (MANSC)

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Questions:

https://forms.illinois.edu/sec/7598908 **or**

ansci-gradprog@Illinois.edu

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Graduation Requirements Guideline

Three types of graduation requirements:

Student must complete a minimum of 32 credit hours of graduate credit. Credit hours used to fulfill one requirement, cannot be used to fulfill another requirement

New (Fall 2021-) MANSC Degree Requirements

Non-thesis Master of Animal Sciences (≥ 32 hrs): 5 years max.

≥ 22 hrs of course work including:

≥ 2 hrs statistics course (ANSC 440, 445, or approved: e.g. NRES 421)

≥ 2 credit hrs of 500-level lecture or lab courses

≥ 2 hrs of ANSC 590 or ANSC 591 discipline seminar

≥ 8 hrs of independent study (ANSC 593)

project & report (MOA approved; graded by faculty advisor)

*if applicable, English proficiency (ESL) courses required

≥ 3.0 GPA

Recommendation: try to register for Stats course, seminar, some 500-level hrs, some project hrs in Fall

Pre Fall 2021- MANSC Degree Requirements

Non-thesis Master of Animal Sciences (≥ 32 hrs): 5 years max.

≥ 24 hrs of course work including:

ANSC 440, 445, or approved statistics (≥ 4 credit hrs)

≥ 6 credit hrs of 500-level lecture or lab courses

≥ 6 credit hrs of 400 or 500-level ANSC courses

≥ 8 credit hrs of 400 or 500-level lecture or lab courses

≥ 2 hrs of ANSC 590 or ANSC 591 discipline seminar

≥ 6 hrs of independent study (ANSC 593)

project & report (MOA approved; graded by faculty advisor)

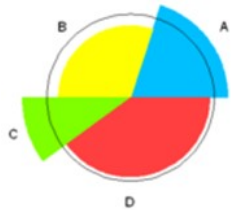
*if applicable, English proficiency (ESL) courses required

≥ 3.0 GPA

Recommendation: try to register for Stats course, seminar, some 500-level hrs, some project hrs in Fall

Courses and seminar requirements

- Ask your faculty advisor about course selection (best to support career and project)
- 2 credit hrs of ANSC 590 or ANSC 591 (no other seminar will count)
- At least 2 credit hrs of statistical/analytical/informatics course
  - ANSC 440, ANSC 448, ANSC 449, ANSC 445, NRES 421, etc.
  - Other 400- and 500-level courses must be pre-approved (email ansci-gradprog@Illinois.edu)
    - When in doubt send email to https://forms.illinois.edu/sec/7598908
- Only 400- and 500-level courses count towards degree requirements



MOA = Memorandum of Agreement

MOA describes the ANSC 593 independent studies work

- developed by the faculty advisor and student
- signed faculty advisor and student
- submitted to ansci-gradprog@Illinois.edu
- evaluated by the MANSC committee

MOA template available from to ansci-gradprog@Illinois.edu:

- ✓ title, name of student and faculty advisor
- ✓ brief description of proposed studies
  - ❖ research, teaching, extension, more courses, literature review
- ✓ resources available for project
- ✓ expected student time commitment
- ✓ Submitted by end of 1st month of 1st semester or second semester

Two MOAs if two 4 credit hrs projects, one MOA for one 8 hrs project

Three ANSC 593 Project Pathways

Application

Prospective student

Admission

ANSC 593 advisor- pre admission

ANSC 593 advisor- post admission

Accepted

ANSC 593

Submit a MOA before 1st month in program

Student has 1 month to secure advisor

Submit a MOA by end of 1st month in program

Committee
Revises and Approves MOA

Three ANSC 593 Project Pathways (cont'd)

Application

Prospective student

Admission and 1st semester

No ANSC 593 MOA by end of 1st month

Accepted

1st semester

Department facilitates interdisciplinary advising.

Student must submit ANSC 593 MOA by 2nd semester

Interdisciplinary advising for students without MOA by 1st month of semester

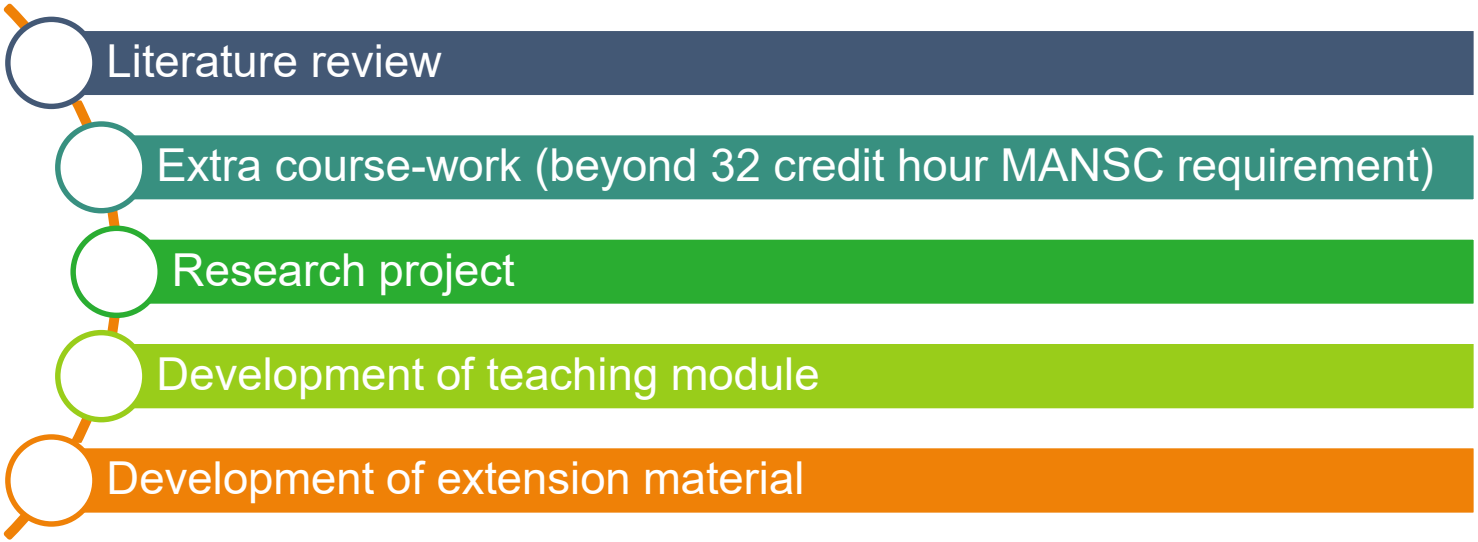
It is in the best interest of the MANSC student to secure some credit hrs of an ANSC 593 project (or MOA) as soon as possible
this is a graduation requirement

- Students without MOA by the 1st month of first semester must send email to https://forms.illinois.edu/sec/7598908 or ansci-gradprog@Illinois.edu
- An advisor will be assigned:
  - Students will be guided to possible departmental mentors/projects
  - Could start working on a project with the advisor
  - Advisor may not work on the student's area of interest

Evolving List of Possible Projects

Advisor Name	Advisor email	Discipline(s)	ANSC 593 MANSC project topic or title
Maria Godoy	mgodo2@ilinois.edu	Comparative and CAN	Novel ingredients
Derek Nolan	dtnolan@illinois.edu	Dairy Edu., Extension	Milk quality analysis; relationships between production and management decisions in dairy herds
Sandra Rodriguez Zas	rodrgzzs@illinois.edu	Bioinformatics, Genetics	Bioinformatics study of molecular pathways impacted by stress, infection, addiction
David Miller	djmille@illinois.edu	Reproductive, Cell Biology	Reproductive Technologies
Mike Ellis	mellis7@illinois.edu	Swine Prod/ Management	Reducing pre-weaning mortality; thermal imaging of sows and growing pigs as a management aid
Emmert, Koelkebeck, Parsons	jemmert@illinois.edu	Poultry nutrition/prod/	Hatchability evaluation, chick nutrition, ingredient evaulation in poultry
Kelly Swanson	ksswanso@illinois.edu	Companion an. nutrition	novel ingredient evaluation; dog and cat metabolism and/or physiology
Romana Nowak	ranowak@illinois.edu	Reproductive Biology	Help build course module for comparative reproduction course-evolution of sex
Romana Nowak	ranowak@illinois.edu	Reproductive Biology	Study effect of phthalate exposure on premature aging of reproductive system
Sandra Rodriguez Zas	rodrgzzs@illinois.edu	Statistics	Biostatistical analysis of animal experiments
Anna Kukekova	avk@illinois.edu	Behavior Genetics	Analysis of videos recording daily activity of farm-bred foxes
Isabella Condotta	icfsc@illinois.edu	Precision Management	PMA hands-on research (computer vision for swine or cattle), including basic programming skills development; producer willingness-to-adopt technology; teaching projects for ANSC 360 and ANSC 460
Amy Fischer	afischer@illinois.edu	Humane Educa, Extension	Pet retention (human animal support services); Community cats return-to-field
Matthew Dean	mjdeanillinois.edu	Reproductive Biology	The effects of parabens on the reproductive tract
Matthew Dean	mjdeanillinois.edu	Reproductive Biology	The role of membrane progesterone receptors in the uterus.
Josh McCann	jcmccan2@illinois.edu	Ruminant Nutrition	In vitro rumen fermentation

Select at least two ANSC 593 activities per MOA

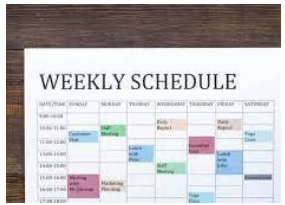


Most projects will include literature review + other component
Students must write a final report (one for an 8-hr project, two for both 4-hr projects)
Faculty offers feedback on the preliminary versions of the report
ANSC 593 grade: faculty advisor grade of the final report and student's work
One grade for one 8-hr project or two independent grades for two 4-hr projects

Things to consider when selecting ANSC 593 projects

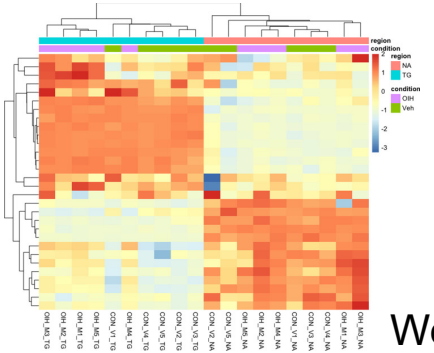
- Interests and career goals -think broadly
- Coursework load -develop a course plan & alternatives, fit 593 hrs
- Timeline (1 or more semesters), Fall/Spring/Summer
- Remote “on-your-clock” work versus in-person AM or PM

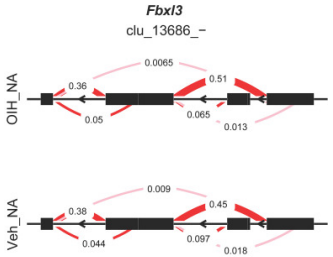
- One 8-hr project can provide depth in learning experiences
  - more advanced graduate or professional studies
- Two 4-hr projects provide breath to strengthen resume
  - mix and match areas (genetics, nutrition, analytics, physiology)
- One 4-hr project can be extended to one 8-hr project
- Faculty advisors can be future letters of recommendation



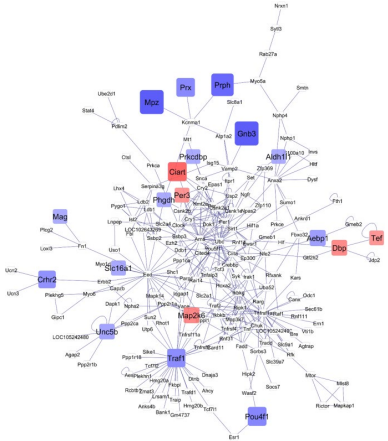
Things to consider when selecting ANSC 593 projects

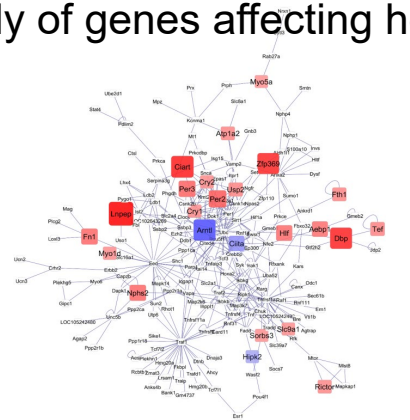
- Remote “on-your-clock” work and/or in-person AM or PM





Web-based bioinformatics study of genes affecting health





Extra course-work as ANSC 593 project

- At least 6 credit hrs of coursework for one 8-hr project
  - Transcript will show >= 38 credit hours (32 hrs + >=6 hrs)
- At least 3 credit hrs of coursework per each of two 4-hr projects
- Extra coursework (title, credit hours, semester) and advisor-selected report prompts must be included in the MOA for approval
- Report will include advisor-selected prompt(s) on topic(s) related to the extra courses and a literature review
- Grade will recognize the ability of student to apply the extra course concepts to address the prompt(s), synthesis, integration
- Grading by advisor is based on the report alone

Advising Resources by Discipline

Genetics, Genomics & Bioinformatics	Immunophysiol. & Behavior	Ruminant Nutrition	Non-ruminant Nutrition	Production & Environmental Management
Anna Kukekova	Adrienne Antonson	Phil Cardoso	Maria Godoy	Isabella Condotta
Juan Loor	Isabella Condotta	Josh McCann	Ryan Dilger	Jim Drackley
Alfred Roca	Ryan Dilger	Jim Drackley	Michael Ellis	Michael Ellis
Sandra Rodriguez-Zas	Rod Johnson	Juan Loor	Jason Emmert	Kevin Kline
Kelly Swanson	Daniel McKim	Dan Shike	Carl Parsons	Robert Knox
	Sandra Rodriguez-Zas	Lee Rincker	Hans Stein	Ken Koelkebeck
	Drew Steelman	Kevin Kline	Kelly Swanson	Derek Nolan
				Nohra Mateus
				Debra Hagstrom

https://ansc.illinois.edu/directory

Advising Resources by Discipline

Reproductive Biology	Microbiology	Meat Science	Others
Phil Cardoso Matthew Dean Amy Fischer Kevin Kline Robert Knox David Miller Romana Nowak Matthew Wheeler	Isaac Cann Rex Gaskins Rod Mackie Jason Ridlon	Anna Dilger Bailey Harsh Brandon Klehm	Ag Education Ag Communication (ALEC) (Phil Cardoso) Humane edu./ shelter management/sport animals (Amy Fischer; Debra Hagstrom) Statistics/Data analytics courses/Economics (S. Rodriguez Zas)

Summary

*32 hrs (ANSC 590/591 + ANSC 593
+ 400- and 500-level courses)

*First 10 days of semester for self-service add/drop course
after this, add/drop form requires form and signatures
dedicate first 2 weeks of semester to develop course/project plan

*Submit MOA by October 1st or let us know you need advisor

*Plan your course and project work across semesters

*Be flexible and have an alternative plan

Have a great semester!

Questions, comments, communication:

ansci-gradprog@lllinois.edu

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