Program Change Request

Date Submitted: 03/30/20 12:23 pm

Viewing: MS 247ALS : Dairy Science

Last approved: 05/06/19 6:11 pm

Last edit: 03/31/20 11:16 am

Changes proposed by: kweigel

Catalog Pages Using this Program

Dairy Science, M.S.

In Workflow

1. AN&DY SCI Dept. Approver
2. ALS College Admin Reviewer
3. ALS College Approver
4. APIR Admin
5. GFEC Approver
6. UAPC Approver
7. Registrar

Approval Path

1. 03/30/20 12:31 pm Kent Weigel (kweigel): Approved for AN&DY SCI Dept. Approver
2. 03/30/20 2:00 pm Sarah Barber (scbarber): Approved for ALS College Admin Reviewer
3. 03/30/20 3:30 pm Sarah Barber (scbarber): Approved for ALS College Approver
4. 03/31/20 10:57 am Karen Mittelstadt (kmittelstadt)

Name of the school or college academic planner who you consulted with on this proposal.

<table>
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<th>Name</th>
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<tr>
<td>Megan Ackerman-Yost - ALS</td>
</tr>
<tr>
<td>Sarah Barber - ALS</td>
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https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Proposal Abstract/Summary:

Change to the home department due to the creation of the new Department of Animal and Dairy Sciences and the planned discontinuation of the Department of Animal Sciences and the Department of Dairy Science.

3/25/2020 - Grievance policy added by Graduate School

If approved, what term should the proposed change be effective?

Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.

No

Basic Information

Program State: Active
Type of Program: Degree/Major
Who is the audience? Graduate or professional
Home Department: Animal and Dairy Sciences (AN&DY SCI)
School/College: College of Agricultural and Life Sciences
The program will be governed by the home department/academic unit as specified. Will an additional coordinating or oversight committee be established for the program?

No

Is this in the Graduate School? Yes
Award: Master of Science
SIS Code: MS 247ALS
SIS Description: Dairy Science MS
Transcript Title: Dairy Science

Named Options:

Will this be offered as an additional major as well? No
Is this a non-admitting master's degree? No

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.
List the departments that have a vested interest in this proposal.

Are all program reviews in the home academic unit up to date? Yes
Are all assessment plans in the home academic unit up to date? Yes
Are all assessment reports in the home academic unit up to date? Yes
Mode of Delivery: Face-to-Face (majority face-to-face courses)
Will this program be part of a consortial or collaborative arrangement with another college or university? No
Will instruction take place at a location geographically separate from UW-Madison? No
Will this program have outside accreditation? No
Will graduates of this program seek licensure or certification after graduation? No

Year of three year check-in to GFEC (3 years after first student enrollment):

Year of first program review (5 years after first student enrollment):

If this proposal is approved, describe the implementation plan and timeline.

**Rationale and Justifications**

What is the rationale for this change?

Home department will be discontinued – new Department of Animal and Dairy Sciences will house this program, and Department of Dairy Science is being discontinued. Programs need to be moved to the new department.

What evidence do you have that these changes will have the desired impact?
The program will exist in the correct department

**Faculty and Staff Resources**

Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal.

Select the Graduate Research Scholars Community for this program.
Resources, Budget, and Finance

Is this a revenue program?

What is the tuition structure for this program?

**Standard resident/MN/nonresident graduate tuition**

Given considerations associated with the proposed change, describe the academic unit’s fiscal capacity to support the instructional and curricular requirements, academic and career advising, student support services, technology needs, and relevant assessment of student learning and program review requirements. Is there sufficient capacity in the curricular and academic support services to meet the additional workload? For research graduate programs, include information on how the program will be administered and how student funding will be handled. For undergraduate programs, include information on academic advising, career advising, student support services.

Does the program or change require substantial new resources other than those just described? Describe the needs. Confirm that the dean is committed to providing the resources.

Curriculum and Requirements

If you are proposing a change to the curriculum, what percentage of the curriculum is changing?

No change

Guide Admissions/How to Get In tab

Approved Shared Content from /shared/graduate-school-admissions/

Last Approved: Oct 16, 2019 6:46pm

Please consult the table below for key information about this degree program’s admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program’s website.

Graduate admissions is a two-step process between academic programs and the Graduate School. **Applicants must meet the minimum requirements of the Graduate School as well as the program(s).** Once you have researched the graduate program(s) you are interested in, apply online.

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<td>Not required but may be considered if available.</td>
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<td>English Proficiency Test</td>
<td>Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements (<a href="https://grad.wisc.edu/apply/requirements/#english-proficiency">https://grad.wisc.edu/apply/requirements/#english-proficiency</a>).</td>
</tr>
<tr>
<td>Other Test(s) (e.g., GMAT, MCAT)</td>
<td>n/a</td>
</tr>
<tr>
<td>Letters of Recommendation Required</td>
<td>3</td>
</tr>
</tbody>
</table>

Undergraduate majors in biology, biochemistry, or genetics, as well as dairy or animal science, provide excellent background for graduate study in **Dairy Science**. **dairy science:** Regardless of major, preparation should include biology (molecular, cellular, and population), physiology, chemistry (general and organic), mathematics (through calculus), and physics. Typically, students admitted to the program have a GPA of 3.2 or higher. Candidates with a lower GPA can be considered under special circumstances.

**Documents Required By the Program:** **Our Department:**

1. Personal statement/reasons for graduate Study: see website.

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Those who are not familiar with using the html editor fields may upload a document with information about the curriculum for use by those who will format and edit the content that will appear in the Guide.

2. Three letters of recommendation. The process for letters of recommendation is explained on this website. Letters should be from faculty who are familiar with your academic abilities and goals. Letters from supervisors that provide a character reference are also acceptable. The letters of recommendation should be submitted with the online application.

3. Official transcripts or academic records from each institution attended. These can be scanned and included with the electronic application. Original official transcripts will be required by the Graduate School if a department recommends applicant for admission.

The Graduate School Checklist tells you what you must include in your electronic application—see website. International students should apply as early as possible. If you are admitted, extra time will be needed to process visa documents.

Faculty Review of Completed Applications:
Most applicants have contacted departmental faculty directly with respect to an interest in their area of research. This means that a faculty member may be aware of an applicant’s name and background prior to reviewing a completed application for Graduate School. If a faculty member is interested in a completed application, the applicant will be contacted by them personally. If a faculty member is interested in accepting an applicant, a recommendation for admission will be sent to the Graduate School. The Graduate School will make the final determination for admission.

Our graduate faculty have approximately two weeks prior to the start of the semester to recommend domestic students and approximately six weeks prior to the start of the semester to recommend international students.

Guide Requirements tab

Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/
Last Approved: Oct 25, 2018 11:29am

Minimum Graduate School Requirements

Review the Graduate School minimum academic progress and degree requirements, in addition to the program requirements listed below.

Major Requirements

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Mode of Instruction</th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Mode of Instruction Definitions

Approved Shared Content from /shared/graduate-school-mode-instruction-definitions/
Last Approved: Oct 25, 2018 11:30am

Evening/Weekend: These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

Online: These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.

Hybrid: These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-
Accelerated: These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed timeframe. Enjoy the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.

CURRICULAR REQUIREMENTS

University General Education Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Credit Requirement</td>
<td>30 credits</td>
</tr>
<tr>
<td>Minimum Residence Credit Requirement</td>
<td>16 credits</td>
</tr>
<tr>
<td>Minimum Graduate Coursework Requirement</td>
<td>Half of degree coursework (15 credits out of 30 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide <a href="https://registrar.wisc.edu/course-guide/">https://registrar.wisc.edu/course-guide/</a>.</td>
</tr>
<tr>
<td>Overall Graduate GPA Requirement</td>
<td>3.00 GPA required.</td>
</tr>
<tr>
<td>Other Grade Requirements</td>
<td>No other specific grade requirements.</td>
</tr>
<tr>
<td>Assessments and Examinations</td>
<td>M.S.–course track: Complete coursework and review of literature (documentation of completion is required before M.S. defense) and final defense and examination.</td>
</tr>
<tr>
<td></td>
<td>M.S.–research track: Complete coursework and M.S. research (documentation of completion is required before M.S. defense) and final defense and examination.</td>
</tr>
<tr>
<td>Language Requirements</td>
<td>No language requirements.</td>
</tr>
</tbody>
</table>

Required COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DY SCI 900</td>
<td>Seminar (Every graduate student in the department is required to take this course every spring.)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Biochemistry Course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Statistics Course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dairy or Animal Science Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course (at least 2 credits, grade of B or better) in each of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Animal Genetics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ruminant or Animal Nutrition</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Animal Physiology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dairy Cattle Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total credits required:</td>
<td></td>
</tr>
</tbody>
</table>

Guide Graduate Policies tab

Approved Shared Content from /shared/graduate-school-policies/

Last Approved: Oct 25, 2018 11:30am
Major Specific Policies Graduate Program Handbook The Graduate Program Handbook is the repository for all of the program's policies and requirements.

Major-Specific Policies

Prior Coursework

Graduate Work from Other Institutions
A minimum of 16 graduate credits must be taken while a graduate student at UW–Madison.

UW–Madison Undergraduate
No credits from a UW–Madison undergraduate degree may count toward the M.S. degree.

UW–Madison University Special
Courses taken post–B.S. as a University Special student do not automatically count toward a graduate degree. A maximum of 15 credits may be allowed for courses numbered 300 or above if difference in tuition is paid.

Probation

In compliance with Graduate School policy, listed below, and at discretion of M.S. committee.
If students were admitted on probation and they satisfy the conditions outlined at the time of admission, probationary status will be removed automatically. Once their studies have begun, students are expected to make satisfactory progress toward their degree. Students must be in good academic standing with the Graduate School, their program, and their advisor. The Graduate School regularly reviews the record of any student who received grades of BC, C, D, F, or I in graduate-level courses (300 or above), or grades of U in research and thesis. This review could result in academic probation with a hold on future enrollment, and the student may be suspended from graduate studies. The Graduate School may also put students on probation for incompletes not cleared within one term. All incomplete grades must be resolved before a degree is granted.

Advisor / Committee

The Department of Dairy Science program offers six different program areas for potential graduate students: https://dysci.wisc.edu/prospective-students/graduate/. The focus of research or coursework varies from student to student and is dependent on the agreement of the student's graduate committee. All M.S. students have guidelines to be completed prior to or during M. students have guidelines to be completed prior to or during study as detailed in the Master's Certification forms https://dysci.wisc.edu/dairy-science-certification-forms/. These areas include:

Forming a mentor committee (by end of the first semester) for either M.S. plan:
M.S.–course track requirements
M.S.–research track requirements
Successful completion of the following items. These must be completed in a timely fashion or the student will not be allowed to continue registration. Please note that minimum requirements are provided, however successful completion of the M.S. degree also requires making a research contribution to the scientific literature.
Meet with the M.S. committee. Approve plan for coursework and review of literature and determine immediate research plans (by end of second semester)
With the mentor committee, form a plan of coursework (by end of the second semester) including:
Biochemistry
Statistics (300 level or above)
Dairy or Animal Science Courses:
Genetics (300 level or above, at least 2 credits with grade of B or better)
Physiology (300 level or above, at least 2 credits with grade of B or better)
Management (300 level or above, at least 2 credits with grade of B or better)

CREDITS PER TERM ALLOWED

15 credits

Time Constraints

Form an M.S. mentor committee by end of first semester.
Meet with M.S. committee to approve plan for coursework and review of literature by end of second semester.
Master’s degree students who have been absent for five or more consecutive years lose all credits that they have earned before their absence. Individual programs may count the coursework students completed prior to their absence for meeting program requirements; that coursework may not count toward Graduate School credit requirements.

Grievances and Appeals
Program Change Request

Date Submitted: 03/30/20 12:25 pm

Viewing: PHD 247ALS : Dairy Science

Last approved: 05/07/19 9:44 am
Last edit: 03/31/20 11:19 am
Changes proposed by: kweigel

Catalog Pages Using this Program

Dairy Science, Ph.D.

Name of the school or college academic planner who you consulted with on this proposal.

Name

Megan Ackerman-Yost - ALS

In Workflow

1. AN&DY SCI Dept. Approver
2. ALS College Admin Reviewer
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1. 03/30/20 12:31 pm
Kent Weigel (kweigel): Approved for AN&DY SCI Dept. Approver
2. 03/30/20 1:49 pm
Sarah Barber (scbarber): Approved for ALS College Admin Reviewer
3. 03/30/20 3:29 pm
Sarah Barber (scbarber): Approved for ALS College Approver
4. 03/31/20 10:58 am
Karen Mittelstadt (mittelstadt):
Proposal Abstract/Summary:

Change to the home department due to the creation of the new Department of Animal and Dairy Sciences and the planned discontinuation of the Department of Animal Sciences and the Department of Dairy Science.

3/25/2020 - Grievance policy added by Graduate School

If approved, what term should the proposed change be effective?

Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.

No

**Basic Information**

- **Program State:** Active
- **Type of Program:** Degree/Major
- **Who is the audience?** Graduate or professional
- **Home Department:** Animal and Dairy Sciences (AN&DY SCI) (DY SCI)
- **School/College:** College of Agricultural and Life Sciences

The program will be governed by the home department/academic unit as specified. Will an additional coordinating or oversight committee be established for the program?

No

- **Is this in the Graduate School?** Yes
- **Award:** Doctor of Philosophy
- **SIS Code:** PHD 247ALS
- **SIS Description:** Dairy Science PHD
- **Transcript Title:** Dairy Science

- **Named Options:**
  - Will this be offered as an additional major as well? No
  - Will a doctoral minor be required? Yes

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.
Are all program reviews in the home academic unit up to date? Yes
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Will this program be part of a consortial or collaborative arrangement with another college or university? No
Will instruction take place at a location geographically separate from UW-Madison? No
Will this program have outside accreditation? No
Will graduates of this program seek licensure or certification after graduation? No
Year of three year check-in to GFEC (3 years after first student enrollment):
Year of first program review (5 years after first student enrollment):
If this proposal is approved, describe the implementation plan and timeline.

**Rationale and Justifications**

What is the rationale for this change?
Home department will be discontinued – new Department of Animal and Dairy Sciences will house this program, and Department of Dairy Science is being discontinued. Programs need to be moved to the new department.

What evidence do you have that these changes will have the desired impact?
The program will exist in the correct department.

**Faculty and Staff Resources**

Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal. Yes
Select the Graduate Research Scholars Community for this program.
Resources, Budget, and Finance

Is this a revenue program?

What is the tuition structure for this program?

Standard resident/MN/nonresident graduate tuition

Given considerations associated with the proposed change, describe the academic unit’s fiscal capacity to support the instructional and curricular requirements, academic and career advising, student support services, technology needs, and relevant assessment of student learning and program review requirements. Is there sufficient capacity in the curricular and academic support services to meet the additional workload? For research graduate programs, include information on how the program will be administered and how student funding will be handled. For undergraduate programs, include information on academic advising, career advising, student support services.

Does the program or change require substantial new resources other than those just described? Describe the needs. Confirm that the dean is committed to providing the resources.

Curriculum and Requirements

If you are proposing a change to the curriculum, what percentage of the curriculum is changing? No change

Guide Admissions/How to Get In tab

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Last Approved: Oct 16, 2019 6:46pm

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Documents Required By the Program: Our Department:

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Guide Requirements tab

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Last Approved: Oct 25, 2018 11:29am

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Mode of Instruction Definitions

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Online: These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment.

Accelerated: These programs offer a faster completion time than traditional programs, typically in a shortened semester or yearlong format. These programs often require a more intense and focused focus on learning.

Hybrid: These programs combine both online and on-campus instruction. Students typically take some courses online and some courses on campus, depending on the program and campus resources.

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
learning environment. For more information about the online nature of a specific program, contact the program.

**Hybrid:** These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.

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### CURRICULAR REQUIREMENTS

#### University General Education Requirements

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</tr>
<tr>
<td>Overall Graduate GPA Requirement</td>
<td>3.00 GPA required.</td>
</tr>
<tr>
<td>Other Grade Requirements Assessments and Examinations</td>
<td>Schedule preliminary examination and file request for preliminary examination (by end of fourth semester). Complete written preliminary examination; complete oral preliminary examination (by end of fifth semester). If passed, warrant should be signed and returned to the Graduate School. Student will be a dissertator. Complete research and thesis. Regular meetings with the committee are expected. Request for final examination (includes documentation that exam requirements have been met). Final defense and examination.</td>
</tr>
<tr>
<td>Language Requirements</td>
<td>No language requirements.</td>
</tr>
<tr>
<td>Doctoral Minor/Breadth Requirements</td>
<td>All doctoral students are required to complete a minor.</td>
</tr>
</tbody>
</table>

### Required COURSES

#### Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DY SCI 900</strong></td>
<td>Seminar (Every graduate student in the department is required to take this course every spring,)</td>
<td>1</td>
</tr>
</tbody>
</table>

Biochemistry Course (must require Organic Chemistry as a prerequisite)

Statistics Course

Dairy or Animal Science Courses

- One course (at least 2 credits, grade of B or better) in each of the following:
  - Animal Genetics
  - Ruminant or Animal Nutrition
  - Animal Physiology
  - Dairy Cattle Management

Special Skills

- Complete a course in two of the following three areas:
  - Educational Principles (**DY SCI 799** or other approved course)
  - Technical Writing course or Writing Practicum
  - Advanced course in Philosophy of Science, History of Science, or Ethics of Science

There are no other specific courses required. Depending on which of the six program areas of research is involved, the doctoral graduate student and their mentor committee decide on a plan of study to be completed during the research program. All selected
Total credits required:

Guide Graduate Policies tab

Approved Shared Content from /shared/graduate-school-policies/
Last Approved: Oct 25, 2018 11:30am

Graduate School Policies

The Graduate School’s Academic Policies and Procedures provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

Major-Specific Policies

Graduate Program Handbook
The Graduate Program Handbook is the repository for all of the program’s policies and requirements. Major-Specific Policies

Prior Coursework

Graduate Work from Other Institutions
The department may decide to accept coursework completed outside of the student’s graduate career at UW-Madison when those courses are rigorous and meet the expectations of a graduate work for the degree. Coursework earned five or more years prior to admission to a master’s degree or coursework earned ten or more years prior to admission to a doctoral degree is not allowed to satisfy requirements.

UW–Madison Undergraduate
For well-prepared advanced students, the department may decide to accept up to 7 credits, numbered 300 or above, completed at UW-Madison toward fulfillment of minimum degree credit requirements. These credits would not be allowed to count toward the 50% graduate coursework minimum unless taken at the 700 level or above.

UW–Madison University Special
Courses taken post–B.S. as a University Special student do not automatically count toward a graduate degree. A maximum of 15 credits may be allowed for courses numbered 300 or above as fulfillment of the minimum graduate residence credits. UW-Madison coursework taken as a University Special Student would not be allowed to count toward the 50% graduate coursework minimum unless taken at the 700 level or above.
If Special student credits are applied toward a UW-Madison graduate degree, it will be required to pay the difference between the cost of the Special student credits and graduate credits.

Probation

In compliance with Graduate School policy, listed below, and at discretion of Ph.D. committee.
If students were admitted on probation and they satisfy the conditions outlined at the time of admission, probationary status will be removed automatically. Once their studies have begun, students are expected to make satisfactory progress toward their degree.
Students must be in good academic standing with the Graduate School, their program, and their advisor. The Graduate School regularly reviews the record of any student who received grades of BC, C, D, F, or I in graduate-level courses (300 or above), or grades of U in research and thesis.
This review could result in academic probation with a hold on future enrollment, and the student may be suspended from graduate studies.
The Graduate School may also put students on probation for incompletes not cleared within one term. All incomplete grades must be resolved before a degree is granted.
ADVISOR / COMMITTEE

To complete the Ph.D. degree in Dairy Science, successful completion of the following items is required. These must be completed in a timely fashion or the student will not be allowed to continue registration. 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.
Form a Ph.D. mentor and examination committee (by end of first semester).
Meet with the Ph.D. committee. Develop and approve a plan of coursework consistent with approved research plans (by end of second semester).

CREDITS PER TERM ALLOWED
Program Change Request

Date Submitted: 03/30/20 12:19 pm

Viewing: **GMIN247 : Dairy Science**

Last approved: 09/25/18 8:18 pm

Last edit: 03/31/20 11:09 am

Changes proposed by: kweigel

Catalog Pages Using this Program

- Dairy Science, Doctoral Minor

Name of the school or college academic planner who you consulted with on this proposal.

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Megan Ackerman-Yost - ALS</td>
</tr>
<tr>
<td>Sarah Barber - ALS</td>
</tr>
</tbody>
</table>

In Workflow

1. AN&DY SCI Dept. Approver
2. ALS College Admin Reviewer
3. ALS College Approver
4. APIR Admin
5. GFEC Approver
6. UAPC Approver
7. Registrar

Approval Path

1. 03/30/20 12:30 pm
   Kent Weigel (kweigel): Approved for AN&DY SCI Dept. Approver
2. 03/30/20 1:32 pm
   Sarah Barber (sbarber): Approved for ALS College Admin Reviewer
3. 03/30/20 3:30 pm
   Sarah Barber (sbarber): Approved for ALS College Approver
4. 03/31/20 11:25 am
   Karen Mittelstadt (kmittelstadt)
Proposal Abstract/Summary:
Change to the home department due to the creation of the new Department of Animal and Dairy Sciences and the planned discontinuation of the Department of Animal Sciences and the Department of Dairy Science.

If approved, what term should the proposed change be effective?
Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.
No

Basic Information

Program State: Active
Type of Program: Minor (PhD and BSE only)
Who is the audience?
Graduate or professional
Home Department: Animal and Dairy Sciences (AN&DY SCI) by SCI
School/College: College of Agricultural and Life Sciences

The program will be governed by the home department/academic unit as specified. Will an additional coordinating or oversight committee be established for the program?
No

Is this in the Graduate School? Yes
SIS Code: GMIN247
SIS Description: Dairy Science MIN
Transcript Title: Dairy Science

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.

<table>
<thead>
<tr>
<th>Role Type</th>
<th>Name (Last, First)</th>
<th>Email</th>
<th>Phone</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair</td>
<td>KWEIGEL</td>
<td><a href="mailto:KWEIGEL@wisc.edu">KWEIGEL@wisc.edu</a></td>
<td>608/263-4321</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>WILTBANK</td>
<td><a href="mailto:WILTBANK@wisc.edu">WILTBANK@wisc.edu</a></td>
<td>608/263-9413</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>BWKIRKPA</td>
<td><a href="mailto:BWKIRKPA@wisc.edu">BWKIRKPA@wisc.edu</a></td>
<td>608/263-4323</td>
<td></td>
</tr>
<tr>
<td>Primary Dean's Office Contact</td>
<td>SCBARBER</td>
<td><a href="mailto:SCBARBER@wisc.edu">SCBARBER@wisc.edu</a></td>
<td>608/262-3105</td>
<td></td>
</tr>
</tbody>
</table>
Are all program reviews in the home academic unit up to date?  
Yes

Are all assessment plans in the home academic unit up to date?  
Yes

Are all assessment reports in the home academic unit up to date?  
Yes

Will this program be part of a consortial or collaborative arrangement with another college or university?  
No

Will instruction take place at a location geographically separate from UW-Madison?  
No

Year of three year check-in to GFEC (3 years after first student enrollment): 

Year of first program review (5 years after first student enrollment): 

If this proposal is approved, describe the implementation plan and timeline.

**Rationale and Justifications**

What is the rationale for this change?  
Home department will be discontinued – new Department of Animal and Dairy Sciences will house this program, and Department of Dairy Science is being discontinued. Programs need to be moved to the new department.

What evidence do you have that these changes will have the desired impact?  
Program will exist in the correct department.

**Faculty and Staff Resources**

**Resources, Budget, and Finance**

What is the tuition structure for this program?  

*Standard resident/MN/nonresident graduate tuition*

Given considerations associated with the proposed change, describe the academic unit’s fiscal capacity to support the instructional and curricular requirements, academic and career advising, student support services, technology needs, and relevant assessment of student learning and program review requirements. Is there sufficient capacity in the curricular and academic support services to meet the additional workload? For research graduate programs, include information on how the program will be administered and how student funding will be handled. For undergraduate programs, include information on academic advising, career advising, student support services.

Does the program or change require substantial new resources other than those just described? Describe the needs. Confirm that the dean is committed to providing the resources.

**Curriculum and Requirements**
If you are proposing a change to the curriculum, what percentage of the curriculum is changing?

Guide Admissions/How to Get In tab

Doctoral students who wish to pursue an Option A external minor in Dairy Science should consult the graduate coordinator or chair of the **Dairy Science Graduate Committee**. A Dairy Science faculty member with primary Animal and Dairy Sciences departmental appointment should be assigned as the minor program advisor. See #4.

A **Minor program of study** should be developed with and approved by the minor program advisor and the student’s major professor, early in the student’s graduate work. The proposed program must be submitted and approved upon or before, the completion of 6 credits. See **Doctoral Minor Program of Study Form**.

When courses are complete, the **Minor Program of Study** form for the doctoral minor should be signed by the graduate student’s advisor and the chair of the **Dairy Science Graduate Committee**. The form should be submitted to the **Dairy Science graduate coordinator** at the time of the student’s preliminary exam. The graduate coordinator will send notification to the Graduate School of completion of the doctoral minor.

**Department of Dairy Science Primary Faculty Eligible to be Doctoral Minor Advisor:**

- Sebastian I Arriola Apelo
- Victor Cabrera
- Dave Combs
- Paul Fricke
- Laura Hernandez, Bruce Jones
- Randy Shaver
- Jennifer Van Os
- Michel Wattiaux
- Kent Weigel
- Heather White
- Milo Wiltbank

Those who are not familiar with using the html editor fields may upload a document with information about the curriculum for use by those who will format and edit the content that will appear in the Guide.

Guide Requirements tab

The student must achieve a 3.00 GPA in courses used to satisfy the minor requirement. Directed study courses do not count toward the minor nor do audits or pass/fail courses. A **student may earn a doctoral minor in Dairy Science with 9 credits, if all 9 credits are in graduate-level courses pre-approved by the department.**

**Course List**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DY SCI/AN SCI 414</td>
<td>Ruminant Nutrition &amp; Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>DY SCI/AN SCI 434</td>
<td>Reproductive Physiology</td>
<td>3</td>
</tr>
<tr>
<td>DY SCI 534</td>
<td>Reproductive Management of Dairy Cattle</td>
<td>3</td>
</tr>
<tr>
<td>DY SCI 535</td>
<td>Dairy Farm Management Practicum</td>
<td>3</td>
</tr>
<tr>
<td>DY SCI/AN SCI 824</td>
<td>Ruminant Nutritional Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>DY SCI/AN SCI 825</td>
<td>Ruminant Nutritional Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>DY SCI 875</td>
<td>Special Topics 1</td>
<td>1-4</td>
</tr>
<tr>
<td>DY SCI/AN SCI 931</td>
<td>Seminar in Animal Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>DY SCI AN SCI/GENETICS 951</td>
<td>Seminar in Animal Breeding</td>
<td>1</td>
</tr>
<tr>
<td>DY SCI 900</td>
<td>Seminar (Departmental spring semester seminar and discipline-specific seminars of 1 credit each (up to 5 credits))</td>
<td>1</td>
</tr>
</tbody>
</table>

1 Topic options:

- Advanced Topics in Reproductive Physiology—3 credits
- International Teaching in Science & Engineering—2 credits
- Lactation Physiology—3 credits

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Guide Graduate Policies tab

**Program Learning Outcomes and Assessment**

List the program learning outcomes.

Summarize the assessment plan.

Approved Assessment Plan:

### Commitments

Courses in the curriculum are numbered 300 or higher.

- **Yes**

The program faculty/staff will ensure the program website, Advance Your Career materials if applicable, and other presentations are consistent with the Guide information for this program.

- **Yes**

### Approvals

**Department Approval** - This proposal has been approved by the faculty at the department/academic unit level. The program faculty confirm that the unit has the capacity and resources (financial, physical, instructional, and administrative) to meet the responsibilities associated with offering the program, including offering the necessary courses, advising students, maintaining accurate information about the program in the Guide and elsewhere, conducting student learning assessment and program review, and otherwise attend to all responsibilities related to offering this program.

Dairy Science Executive Committee approved the program move to a new home department due to the creation of the new Department of Animal and Dairy Sciences and the planned discontinuation of the Department of Dairy Science and the Department of Animal Sciences.

Approved November 15, 2019

Entered by:
Sarah Barber
Date entered: 3/27/20

**School/College Approval** - This proposal has been approved at the school/college level and is submitted with the Dean’s support. The Dean and program faculty confirm that the unit has the capacity and resources (financial, physical, instructional, and administrative) to meet the responsibilities associated with offering the program, including offering the necessary courses, advising students, maintaining accurate information about the program in the Guide and elsewhere, conducting student learning assessment and program review, and otherwise attend to all responsibilities related to offering this program.

CALS Academic Planning Council reviewed the proposal to create a new Department of Animal and Dairy Sciences and discontinue the Animal Sciences Department and discontinue the Dairy Science Department. The council approved the restructuring proposal in full including moving this program to the newly created Department of Animal and Dairy Sciences on December 3, 2019

Entered by and date:
Sarah Barber 3/27/20

**GFEC Approval** - This proposal has been approved by the Graduate Faculty Executive Committee and the Dean of the Graduate School.
For Administrative Use

Admin Notes:
Guide URL:
Effective date:
Career: Graduate
SIS Program Code:
SIS Short Description: Dairy Sci
Other plan codes associated with this program:
Field of Study: Biological Science
Plan Group:
CIP Code: 01.0905 - Dairy Science.
Reviewer Comments
Program Change Request

Date Submitted: 03/30/20 12:28 pm

Viewing: **MS 065ALS : Animal Sciences**

Last approved: 05/07/19 1:42 pm

Last edit: 03/31/20 11:17 am

Changes proposed by: kweigel

Catalog Pages Using this Program

- Animal Sciences, M.S.

Name of the school or college academic planner who you consulted with on this proposal.

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Megan Ackerman-Yost - ALS</td>
</tr>
</tbody>
</table>

In Workflow

1. AN&DY SCI Dept. Approver
2. ALS College Admin Reviewer
3. ALS College Approver
4. APIR Admin
5. GFEC Approver
6. UAPC Approver
7. Registrar

Approval Path

1. 03/30/20 12:30 pm Kent Weigel (kweigel): Approved for AN&DY SCI Dept. Approver
2. 03/30/20 12:55 pm Sarah Barber (sbarber): Approved for ALS College Admin Reviewer
3. 03/30/20 3:12 pm Sarah Barber (sbarber): Approved for ALS College Approver
4. 03/31/20 10:57 am Karen Mittelstadt (mittlestad)
Proposal Abstract/Summary:
Change to the home department due to the creation of the new Department of Animal and Dairy Sciences and the planned discontinuation of the Department of Animal Sciences and the Department of Dairy Science.
3/25/2020 - grievance policy added by Graduate School

If approved, what term should the proposed change be effective?
Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.
No

Basic Information

Program State: Active
Type of Program: Degree/Major
Who is the audience? Graduate or professional
Home Department: Animal and Dairy Sciences (AN&DY SCI) A

School/College: College of Agricultural and Life Sciences
The program will be governed by the home department/academic unit as specified. Will an additional coordinating or oversight committee be established for the program?
No

Is this in the Graduate School? Yes
Award: Master of Science
SIS Code: MS 065ALS
SIS Description: Animal Sciences MS
Transcript Title: Animal Sciences
Named Options:

Will this be offered as an additional major as well? No

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Is this a non-admitting master's degree? No

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.

<table>
<thead>
<tr>
<th>Role Type</th>
<th>Name (Last, First)</th>
<th>Email</th>
<th>Phone</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair</td>
<td>Weigel, Kent</td>
<td><a href="mailto:kweigel@wisc.edu">kweigel@wisc.edu</a></td>
<td>608/263-4321</td>
<td></td>
</tr>
<tr>
<td>Primary Dean's Office Contact</td>
<td>Barber, Sarah</td>
<td><a href="mailto:scbarber@wisc.edu">scbarber@wisc.edu</a></td>
<td>608/262-3105</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>Wiltbank, Milo</td>
<td><a href="mailto:wiltbank@wisc.edu">wiltbank@wisc.edu</a></td>
<td>608/263-9413</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>Kirkpatrick, Brian</td>
<td><a href="mailto:bwkirkpa@wisc.edu">bwkirkpa@wisc.edu</a></td>
<td>608/263-4323</td>
<td></td>
</tr>
</tbody>
</table>

List the departments that have a vested interest in this proposal.

Are all program reviews in the home academic unit up to date? Yes
Are all assessment plans in the home academic unit up to date? Yes
Are all assessment reports in the home academic unit up to date? Yes
Mode of Delivery: Face-to-Face (majority face-to-face courses)
Will this program be part of a consortial or collaborative arrangement with another college or university? No
Will instruction take place at a location geographically separate from UW-Madison? No
Will this program have outside accreditation? No
Will graduates of this program seek licensure or certification after graduation? No
Year of three year check-in to GFEC (3 years after first student enrollment):
Year of first program review (5 years after first student enrollment):

If this proposal is approved, describe the implementation plan and timeline.

Rationale and Justifications

What is the rationale for this change?
Home department will be discontinued – new Department of Animal and Dairy Sciences will house this program, and Department of Animal Sciences is being discontinued. Programs need to be moved to the new department.

What evidence do you have that these changes will have the desired impact?
The program will exist in the appropriate department.

Faculty and Staff Resources

Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal: Yes

https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver
Select the Graduate Research Scholars Community for this program.

Science and Medicine Graduate Research Scholars Program

Resources, Budget, and Finance

Is this a revenue program?

What is the tuition structure for this program?

Standard resident/MN/nonresident graduate tuition

Given considerations associated with the proposed change, describe the academic unit’s fiscal capacity to support the instructional and curricular requirements, academic and career advising, student support services, technology needs, and relevant assessment of student learning and program review requirements. Is there sufficient capacity in the curricular and academic support services to meet the additional workload? For research graduate programs, include information on how the program will be administered and how student funding will be handled. For undergraduate programs, include information on academic advising, career advising, student support services.

Does the program or change require substantial new resources other than those just described? Describe the needs. Confirm that the dean is committed to providing the resources.

Curriculum and Requirements

If you are proposing a change to the curriculum, what percentage of the curriculum is changing?

No change

Guide Admissions/How to Get In tab

Approved Shared Content from /shared/graduate-school-admissions/

Last Approved: Oct 16, 2019 6:46pm

Please consult the table below for key information about this degree program’s admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program’s website.

Graduate admissions is a two-step process between academic programs and the Graduate School. Applicants must meet the minimum requirements of the Graduate School as well as the program(s). Once you have researched the graduate program(s) you are interested in, apply online.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Deadline</td>
<td>August 1</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>December 1</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>May 1</td>
</tr>
<tr>
<td>GRE (Graduate Record Examinations)</td>
<td>Required.</td>
</tr>
<tr>
<td>English Proficiency Test</td>
<td>Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements <a href="https://grad.wisc.edu/apply/requirements/#english-proficiency">here</a>.</td>
</tr>
</tbody>
</table>

| Other Test(s) (e.g., GMAT, MCAT) | n/a |
| Letters of Recommendation Required | 3 |

Students with satisfactory undergraduate training in any biological science including emphasis on basic science courses will have suitable backgrounds for graduate studies in Animal Sciences. Typically students admitted to the program have GPAs of 3.2 or higher; candidates with a lower GPA may be considered for admission under special circumstances. Admission decisions are based on academic record, GRE scores, three letters of recommendation, and Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) if applicable.
System (IELTS), if applicable. Students are admitted to the program department if a faculty member agrees to accept the candidate into his or her research group and to provide laboratory/desk space and research support, and upon the approval of the Animal Sciences Graduate Admissions Committee and the Graduate School. The faculty member also makes the decision of whether or not to offer a research assistantship to the candidate. International candidates in the Master of Science program rarely receive financial support.

Those who are not familiar with using the html editor fields may upload a document with information about the curriculum for use by those who will format and edit the content that will appear in the Guide.

Guide Requirements tab

Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/
Last Approved: Oct 25, 2018 11:29am

Minimum Graduate School Requirements

Review the Graduate School minimum academic progress and degree requirements, in addition to the program requirements listed below.

Major Requirements

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
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<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Mode of Instruction Definitions

Approved Shared Content from /shared/graduate-school-mode-instruction-definitions/
Last Approved: Oct 25, 2018 11:30am

Evening/Weekend: These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

Online: These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.

Hybrid: These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.

Accelerated: These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed timeframe. Enjoy the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.

CURRICULAR REQUIREMENTS

University General Education Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
<th>Minimum Credit</th>
<th>30 credits</th>
</tr>
</thead>
</table>
Requirement
Minimum Residence Credit 16 credits

Requirement
Minimum Graduate Coursework Requirement
Half of degree coursework (15 credits out of 30 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university’s Course Guide (https://registrar.wisc.edu/course-guide/). Courses must be agreed upon by student’s graduate committee members and approved by department certification committee.

Overall Graduate GPA Requirement
3.00 GPA required.

Other Grade Requirements
The Graduate School requires an average grade of B or better in all coursework (300 or above, not including research credits) taken as a graduate student unless conditions for probationary status require higher grades. Grades of Incomplete are considered to be unsatisfactory if they are not removed during the next enrolled semester.

Assessments and Examinations
Contact the program for information on required assessments and examinations.

Language Requirements
Language requirements are determined on an individual basis with the major professor and will depend on the area of concentration within the department.

REQUIRED Courses

Students are admitted to this degree program by their major professor. Following matriculation, the student and major professor plan a graduate curriculum and research program. Within one year of matriculation, the student submits her/his planned curriculum to the departmental graduate program coordinator to obtain departmental approval. The student and major professor discuss membership for the thesis committee. The committee consists of a minimum of three faculty members, with two of these members from the Animal Sciences faculty. The thesis committee meets as needed but mainly serves to evaluate the M.S. thesis and relevant knowledge of the student in a final thesis defense exam. The final thesis exam involves an oral defense of the research topic and general knowledge of animal nutrition, endocrinology & reproductive physiology, genetics and animal breeding, or meat science and muscle biology. Consistent with Graduate School policies, the M.S. degree requires a minimum of 30 graduate-level credits, including seminar and research (990) credits.

Seminar Requirement
The Animal Sciences Graduate seminar features outside speakers, UW Faculty, and Animal Sciences graduate students presenting their research or defending their thesis. This course is held on Tuesday mornings during the fall semester from 11 a.m. to noon. Attendance is required at this seminar series by all animal sciences graduate students. Master’s degree students are required to register for the AN SCI 875 Special Topics Animal Science Seminar for credit once. Although attendance is required, registering for the seminar for credit is done the semester a student presents.

All degree candidates must complete a satisfactory thesis. Instructions on preparing a master’s thesis can be found on the UW Graduate School website, https://grad.wisc.edu/current-students/masters-guide/.

At the completion of the degree program, the candidate will take a final examination administered by the mentoring committee. The examination will be oral, and includes questions relating to the candidate’s graduate course program. The candidate will also be expected to defend the thesis.

Animal Nutrition Track

Course List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>STAT/F&amp;W ECOL/HORT 571</td>
<td>Statistical Methods for Bioscience I</td>
<td></td>
</tr>
<tr>
<td>STAT/F&amp;W ECOL/HORT 572</td>
<td>Statistical Methods for Bioscience II</td>
<td></td>
</tr>
<tr>
<td>BIOCHEM 660</td>
<td>Course BIOCHEM 660 Not Found</td>
<td></td>
</tr>
<tr>
<td>or PATH BIO/HORT 500</td>
<td>Molecular Biology Techniques</td>
<td></td>
</tr>
<tr>
<td>AN SCI/DY SCI 931</td>
<td>Seminar in Animal Nutrition</td>
<td></td>
</tr>
<tr>
<td>AN SCI/DY SCI 414</td>
<td>Ruminant Nutrition &amp; Metabolism</td>
<td></td>
</tr>
<tr>
<td>AN SCI 415</td>
<td>Application of Monogastric Nutrition Principles</td>
<td></td>
</tr>
<tr>
<td>AN SCI/NUTR SCI 626</td>
<td>Experimental Diet Design</td>
<td></td>
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</tbody>
</table>
### Animal Breeding & Genetics Track 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AN SCI/DY SCI/GENETICS 951</td>
<td>Seminar in Animal Breeding (every semester)</td>
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</tr>
<tr>
<td>GENETICS 466</td>
<td>Principles of Genetics (or equivalent)</td>
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</tr>
<tr>
<td>STAT/F&amp;W ECOL/HORT 571</td>
<td>Statistical Methods for Bioscience I (or equivalent)</td>
<td></td>
</tr>
</tbody>
</table>

### Endocrinology & Reproductive Physiology Track 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT/F&amp;W ECOL/HORT 571</td>
<td>Statistical Methods for Bioscience I</td>
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<tr>
<td>AN SCI 875</td>
<td>Special Topics (Endocrine Physiology)</td>
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<tr>
<td>BIOCHEM/PHMCOL-M/ZOOLOGY 630</td>
<td>Cellular Signal Transduction Mechanisms</td>
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<tr>
<td>BIOCHEM 507</td>
<td>General Biochemistry I and General Biochemistry II</td>
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<tr>
<td>BMOLCHEM 503 &amp; BMOLCHEM 508</td>
<td>Human Biochemistry</td>
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<tr>
<td>BMOLCHEM 704</td>
<td><strong>Course BMOLCHEM 704 Not Found</strong></td>
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<tr>
<td>AN SCI/OBS&amp;GYN/ZOOLOGY 954</td>
<td>Seminar in Endocrinology-Reproductive Physiology</td>
<td>0-1</td>
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<tr>
<td>AN SCI/FOOD SCI 305</td>
<td>Introduction to Meat Science and Technology 2</td>
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</tr>
<tr>
<td>AN SCI 508</td>
<td>Poultry Products Technology 2</td>
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<tr>
<td>AN SCI/FOOD SCI 515</td>
<td>Commercial Meat Processing 2</td>
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Program Change Request

Date Submitted: 03/30/20 12:29 pm

Viewing: PHD 065ALS : Animal Sciences

Last approved: 05/07/19 1:44 pm

Last edit: 03/31/20 11:18 am

Changes proposed by: kweigel

Catalog Pages Using this Program

Animal Sciences, Ph.D.

Name of the school or college academic planner who you consulted with on this proposal.

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Megan Ackerman-Yost - ALS</td>
</tr>
<tr>
<td>Sarah Barber - ALS</td>
</tr>
</tbody>
</table>

In Workflow
1. AN&DY SCI Dept. Approver
2. ALS College Admin Reviewer
3. ALS College Approver
4. APIR Admin
5. GFEC Approver
6. UAPC Approver
7. Registrar

Approval Path
1. 03/30/20 12:31 pm
   Kent Weigel (kweigel): Approved for AN&DY SCI Dept. Approver
2. 03/30/20 1:20 pm
   Sarah Barber (scbarber): Approved for ALS College Admin Reviewer
3. 03/30/20 3:11 pm
   Sarah Barber (scbarber): Approved for ALS College Approver
4. 03/31/20 10:57 am
   Karen Mittelstadt (mittelstadt):
Proposal Abstract/Summary:
Change to the home department due to the creation of the new Department of Animal and Dairy Sciences and the planned discontinuation of the Department of Animal Sciences and the Department of Dairy Science.
3/25/2020 - Grievance policy added by Graduate School

If approved, what term should the proposed change be effective?
Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.
No

Basic Information

Program State: Active
Type of Program: Degree/Major
Who is the audience? Graduate or professional
Home Department: Animal and Dairy Sciences (AN&DY SCI)
School/College: College of Agricultural and Life Sciences

The program will be governed by the home department/academic unit as specified. Will an additional coordinating or oversight committee be established for the program?
No

Is this in the Graduate School? Yes
Award: Doctor of Philosophy
SIS Code: PHD 065ALS
SIS Description: Animal Sciences PHD
Transcript Title: Animal Sciences

Will this be offered as an additional major as well? No

History
1. Sep 19, 2018 by clmig-smenda
2. Oct 15, 2018 by Michelle Young (meyoung)
3. May 7, 2019 by Megan Ackerman-Yost (ackermanyost)
Will a doctoral minor be required?  Yes

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.

<table>
<thead>
<tr>
<th>Role Type</th>
<th>Name (Last, First)</th>
<th>Email</th>
<th>Phone</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair</td>
<td>KWEIGEL</td>
<td><a href="mailto:KWEIGEL@wisc.edu">KWEIGEL@wisc.edu</a></td>
<td>608/263-4321</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>BWKIRKPA</td>
<td><a href="mailto:BWKIRKPA@wisc.edu">BWKIRKPA@wisc.edu</a></td>
<td>608/263-4323</td>
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</tr>
<tr>
<td>Faculty Director</td>
<td>WILTBANK</td>
<td><a href="mailto:WILTBANK@wisc.edu">WILTBANK@wisc.edu</a></td>
<td>608/263-9413</td>
<td></td>
</tr>
<tr>
<td>Primary Dean's Office Contact</td>
<td>SCBARBER</td>
<td><a href="mailto:SCBARBER@wisc.edu">SCBARBER@wisc.edu</a></td>
<td>608/262-3105</td>
<td></td>
</tr>
</tbody>
</table>

List the departments that have a vested interest in this proposal.

Are all program reviews in the home academic unit up to date?  Yes
Are all assessment plans in the home academic unit up to date?  Yes
Are all assessment reports in the home academic unit up to date?  Yes

Mode of Delivery:  Face-to-Face (majority face-to-face courses)

Will this program be part of a consortial or collaborative arrangement with another college or university?  No
Will instruction take place at a location geographically separate from UW-Madison?  No
Will this program have outside accreditation?  No
Will graduates of this program seek licensure or certification after graduation?  No

Year of three year check-in to GFEC (3 years after first student enrollment):

Year of first program review (5 years after first student enrollment):

If this proposal is approved, describe the implementation plan and timeline.

**Rationale and Justifications**

What is the rationale for this change?

Home department will be discontinued – new Department of Animal and Dairy Sciences will house this program, and Department of Animal Sciences is being discontinued. Programs need to be moved to the new department.

What evidence do you have that these changes will have the desired impact?

The program will exist in the appropriate department.

**Faculty and Staff Resources**

Confirm that the program advisor(s) or coordinator(s) have been consulted and reviewed this proposal  Yes
Select the Graduate Research Scholars Community for this program.

Science and Medicine Graduate Research Scholars Program

### Resources, Budget, and Finance

Is this a revenue program? **No**

What is the tuition structure for this program?

- **Standard resident/MN/nonresident graduate tuition**

Given considerations associated with the proposed change, describe the academic unit’s fiscal capacity to support the instructional and curricular requirements, academic and career advising, student support services, technology needs, and relevant assessment of student learning and program review requirements. Is there sufficient capacity in the curricular and academic support services to meet the additional workload? For research graduate programs, include information on how the program will be administered and how student funding will be handled. For undergraduate programs, include information on academic advising, career advising, student support services.

Does the program or change require substantial new resources other than those just described? Describe the needs. Confirm that the dean is committed to providing the resources.

### Curriculum and Requirements

If you are proposing a change to the curriculum, what percentage of the curriculum is changing? **No change**

Guide Admissions/How to Get In tab

---

### Approved Shared Content from /shared/graduate-school-admissions/

Last Approved: Oct 16, 2019 6:46pm

Graduate admissions is a two-step process between academic programs and the Graduate School. **Applicants must meet the minimum requirements of the Graduate School as well as the program(s).** Once you have researched the graduate program(s) you are interested in, apply online.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Deadline</td>
<td>August 1</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>December 1</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>May 1</td>
</tr>
<tr>
<td>GRE (Graduate Record Examinations)</td>
<td>Required.</td>
</tr>
<tr>
<td>English Proficiency Test</td>
<td>Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements <a href="https://grad.wisc.edu/apply/requirements/#english-proficiency">here</a>.</td>
</tr>
</tbody>
</table>

Other Test(s) (e.g., GMAT, MCAT) | n/a |
Letters of Recommendation Required | 3 |

Students with satisfactory undergraduate training in any biological science including emphasis on basic science courses will have suitable backgrounds for graduate studies in Animal Sciences. Typically students admitted to the program have GPAs of 3.2 or higher; candidates with a lower GPA may be considered for admission under special circumstances. Admission decisions are based on academic record, GRE scores, three letters of recommendation, and Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) if applicable.
System (IELTS), if applicable.

Students are admitted to the [program department](https://next-guide.wisc.edu/courseleaf/approve/?role=GRAD SCH Dept. Approver) if a faculty member agrees to accept the candidate into his or her research group and to provide laboratory/desk space and research support, and upon the approval of the Animal Sciences Graduate Admissions Committee and the Graduate School. The faculty member also makes the decision of whether or not to offer a research assistantship to the candidate. International candidates in the Master of Science program rarely receive financial support.

Those who are not familiar with using the html editor fields may upload a document with information about the curriculum for use by those who will format and edit the content that will appear in the Guide.

Guide Requirements tab

---

### Approved Shared Content from /shared/graduate-minimum-degree-requirements-and-satisfactory-progress/

Last Approved: Oct 25, 2018 11:29am

### Minimum Graduate School Requirements

Review the Graduate School minimum academic progress and degree requirements, in addition to the program requirements listed below.

### Major Requirements

#### MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Mode of Instruction</th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face to Face</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Evening/Weekend</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
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</tr>
<tr>
<td>Accelerated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Mode of Instruction Definitions**

- **Evening/Weekend**: These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.

- **Online**: These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.

- **Hybrid**: These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.

- **Accelerated**: These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed timeframe. Enjoy the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.

#### CURRICULAR REQUIREMENTS

- **University General Education Requirements**
  - Requirements: Detail
  - Minimum Credit: 51 credits
Requirement
Minimum Residence Credit 32 credits

Requirement
Minimum Graduate Coursework Requirement Half of degree coursework (26 credits out of 51 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide (https://registrar.wisc.edu/course-guide).

Overall Graduate GPA Requirement 3.00 GPA required.

Other Grade Requirements The Graduate School requires an average grade of B or better in all coursework (300 or above, not including research credits) taken as a graduate student unless conditions for probationary status require higher grades. Grades of Incomplete are considered to be unsatisfactory if they are not removed during the next enrolled semester.

Assessments and Examinations The original research conducted by the candidate must be summarized in a thesis. A final examination will be given after the completion of the thesis. The thesis must be submitted to the examining committee two weeks before the examination. The candidate is required to present an exit seminar on their dissertation research and to subsequently defend the thesis orally. The thesis must be acceptable from both scientific and literary standpoints. The mentoring committee administers the thesis defense. Deposit of the doctoral dissertation in the Graduate School is required.

Language Requirements Language requirements are determined on an individual basis with the major professor and will depend on the area of concentration within the department.

Doctoral Minor/Breadth Requirements The Animal Sciences program requires Ph.D. students to complete a minor.

Required COURSES
All Animal Sciences Ph.D. students must meet with their research committee during their first year to complete their Certification Form. Once the committee has approved the certification paperwork the student must turn in the signed copy to the Graduate Coordinator so that it may be reviewed and approved by the graduate chair. The certification paperwork must be approved before a student can request their prelim warrant. Students should meet with their committee once per year. Any changes to the certification paperwork must be communicated to the graduate coordinator and approved by the graduate chair.

Students graduating with a Ph.D. in Animal Sciences are expected to have core education in the following areas:
- Physiology/endocrinology/reproduction
- Biochemistry/nutrion
- Genetics/breeding
- Food science/meat science/ food safety/microbiology
- STAT/F&W ECOL/HORT 571 Statistical Methods for Bioscience I, STAT/F&W ECOL/HORT 572 Statistical Methods for Bioscience II, or equivalent

A course in ethics
Teaching practicum, with Delta or MIU Workshop training.

Courses taken prior to entering the Animal Sciences program will be considered as a substitute.

Seminar Requirement
The Animal Sciences Graduate seminar features outside speakers, UW faculty, and Animal Sciences graduate students presenting their research or defending their thesis. This course is held on Tuesday mornings during the fall semester from 11 a.m. to noon. Attendance is required at this seminar series by all Animal Sciences graduate students. Ph.D. students are required to register for the AN SCI 875 Special Topics (Animal Science Seminar) for credit twice. Although attendance is required, registering for the seminar for credit is done the semester a student presents.

Teaching Requirement
All students in the Animal Sciences Ph.D. program are required to complete a Teaching Practicum, usually AN SCI 799 Practicum in Animal Sciences Teaching. Each student is expected to work with the faculty advisor to identify an opportunity within the department for the student to engage in teaching. This requirement is broadly defined, and could include assisting an Animal Sciences faculty member with classroom teaching or TA’ing in a course outside of the animal sciences department.
Enrollment Requirement

The program department requires all funded students to be enrolled full time. For M.S. students this means at least 8 credits in the fall and spring term and at least 2 credits in the summer term. Students funded by another program department should check with the payroll and benefits coordinator of that department to learn their requirements for enrollment. Unfunded students should follow the Graduate School’s rules on enrollment.

The remainder of the course requirements for the Ph.D. in Animal Sciences will be selected to meet the student’s specific needs and to ensure breadth and depth as determined through consultation with his/her major professor and members of their committee.

Animal Nutrition Track 1, 2

Animal Breeding & Genetics Track 1

Endocrinology & Reproductive Physiology Track 1
F. Technical Writing
G. Advanced Statistics
H. Advanced Endocrinology
I. Advanced Reproduction
J. Advanced Topic Course. Select one of the following:
   - Gamete and Embryo Biology
   - Reproductive Patterns
   - Selected Topics in Endocrinology-Reproductive Physiology
   - Pregnancy, Parturition, and Lactation

These tracks are internal to the program and represent different pathways a student can follow to earn this degree. Track names do not appear in the Graduate School admissions application, and they will not appear on the transcript.
Program Change Request

Date Submitted: 03/30/20 12:26 pm

Viewing: GMIN065 : Animal Sciences

Last approved: 09/25/18 7:50 pm

Last edit: 03/31/20 11:01 am

Changes proposed by: kweigel

Catalog Pages Using this Program

Animal Sciences, Doctoral Minor

Name of the school or college academic planner who you consulted with on this proposal.

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Megan Ackerman-Yost - ALS</td>
</tr>
<tr>
<td>Sarah Barber - ALS</td>
</tr>
</tbody>
</table>

In Workflow

1. AN&DY SCI Dept. Approver
2. ALS College Admin Reviewer
3. ALS College Approver
4. APIR Admin
5. GFEC Approver
6. UAPC Approver
7. Registrar

Approval Path

1. 03/30/20 12:30 pm Kent Weigel (kweigel): Approved for AN&DY SCI Dept. Approver
2. 03/30/20 12:41 pm Sarah Barber (scbarber): Approved for ALS College Admin Reviewer
3. 03/30/20 3:12 pm Sarah Barber (scbarber): Approved for ALS College Approver
4. 03/31/20 11:25 am Karen Mittelstadt (KMW): Approved
Proposal Abstract/Summary:
Change to the home department due to the creation of the new Department of Animal and Dairy Sciences and the planned discontinuation of the Department of Animal Sciences and the Department of Dairy Science.

If approved, what term should the proposed change be effective?
Fall 2020 (1212)

Select yes if this proposal is only to add, remove, or rearrange curricular requirements, and will change less than 50% of the curriculum.
No

Basic Information

Program State: Active
Type of Program: Minor (PhD and BSE only)
Who is the audience?
   Graduate or professional
Home Department: Animal and Dairy Sciences (AN&DY SCI) AN SCI
School/College: College of Agricultural and Life Sciences

The program will be governed by the home department/academic unit as specified. Will an additional coordinating or oversight committee be established for the program?
No

Is this in the Graduate School? Yes

SIS Code: GMIN065
SIS Description: Animal Sciences MIN
Transcript Title: Animal Sciences

Roles by Responsibility: List one person for each role in the drop down list. Use the green + to create additional boxes.

<table>
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<th>Role Type</th>
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<th>Email</th>
<th>Phone</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Department Chair</td>
<td>Weigel, Kent</td>
<td><a href="mailto:kweigel@wisc.edu">kweigel@wisc.edu</a></td>
<td>608/263-4321</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>Wiltbank, Milo</td>
<td><a href="mailto:wiltbank@wisc.edu">wiltbank@wisc.edu</a></td>
<td>608/263-9413</td>
<td></td>
</tr>
<tr>
<td>Faculty Director</td>
<td>Kirkpatrick, Brian</td>
<td><a href="mailto:bwkirkpa@wisc.edu">bwkirkpa@wisc.edu</a></td>
<td>608/263-4323</td>
<td></td>
</tr>
<tr>
<td>Primary Dean's Office Contact</td>
<td>Barber, Sarah</td>
<td><a href="mailto:sbarber@wisc.edu">sbarber@wisc.edu</a></td>
<td>608/262-3105</td>
<td></td>
</tr>
</tbody>
</table>
Are all program reviews in the home academic unit up to date? Yes
Are all assessment plans in the home academic unit up to date? Yes
Are all assessment reports in the home academic unit up to date? Yes
Will this program be part of a consortial or collaborative arrangement with another college or university? No
Will instruction take place at a location geographically separate from UW-Madison? No
Year of three year check-in to GFEC (3 years after first student enrollment): 
Year of first program review (5 years after first student enrollment):
If this proposal is approved, describe the implementation plan and timeline.

Rationale and Justifications

What is the rationale for this change?
Home department will be discontinued – new Department of Animal and Dairy Sciences will house this program, and Department of Animal Sciences is being discontinued. Programs need to be moved to the new department.

What evidence do you have that these changes will have the desired impact?
The program will exist in the appropriate department.

Faculty and Staff Resources

Resources, Budget, and Finance

What is the tuition structure for this program?
Standard resident/MN/nonresident graduate tuition

Given considerations associated with the proposed change, describe the academic unit’s fiscal capacity to support the instructional and curricular requirements, academic and career advising, student support services, technology needs, and relevant assessment of student learning and program review requirements. Is there sufficient capacity in the curricular and academic support services to meet the additional workload? For research graduate programs, include information on how the program will be administered and how student funding will be handled. For undergraduate programs, include information on academic advising, career advising, student support services.

Does the program or change require substantial new resources other than those just described? Describe the needs. Confirm that the dean is committed to providing the resources.

Curriculum and Requirements
If you are proposing a change to the curriculum, what percentage of the curriculum is changing?

No change

Program Learning Outcomes and Assessment

List the program learning outcomes.

Summarize the assessment plan.

Approved Assessment Plan:

Commitments

Courses in the curriculum are numbered 300 or higher.

Yes

The program faculty/staff will ensure the program website, Advance Your Career materials if applicable, and other presentations are consistent with the Guide information for this program.

Yes

Approvals

Department Approval - This proposal has been approved by the faculty at the department/academic unit level. The program faculty confirm that the unit has the capacity and resources (financial, physical, instructional, and administrative) to meet the responsibilities associated with offering the program, including offering
Animal Sciences Executive Committee approved the program move to a new home department due to the creation of the new Department of Animal and Dairy Sciences and the planned discontinuation of the Department of Animal Sciences and the Department of Dairy Science. Approved November 15, 2019

CALS Academic Planning Council reviewed the creation of a new Department of Animal and Dairy Sciences proposal and the discontinuation of the Animal Sciences Department and the discontinuation of the Dairy Science Departments. The council approved the restructuring proposal in full including moving this program to the newly created Department of Animal and Dairy Sciences on December 3, 2019.

School/College Approval - This proposal has been approved at the school/college level and it is submitted with the Dean’s support. The Dean and program faculty confirm that the unit has the capacity and resources (financial, physical, instructional, and administrative) to meet the responsibilities associated with offering the program, including offering the necessary courses, advising students, maintaining accurate information about the program in the Guide and elsewhere, conducting student learning assessment and program review, and otherwise attend to all responsibilities related to offering this program.

GFEC Approval - This proposal has been approved by the Graduate Faculty Executive Committee and the Dean of the Graduate School.

UAPC Approval - This proposal has been approved by the University Academic Planning Council and the Provost.
Field of Study: Biological Science

Plan Group:

CIP Code: 01.0901 - Animal Sciences, General.

Reviewer

Comments

Key: 363