

UNIT REPORT

Animal, Veterinary & Food Science- Academic - APR Self-Study Report by Academic Unit/Department

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Program Mission

New Program Mission Item

Program Mission Statement:

The Department of Animal, Veterinary and Food Sciences' mission is to conduct focused, comprehensive and integrated research and teaching programs that directly support animal agriculture and food science. Research encompasses both basic and applied studies within animal agriculture and food sciences carried out regionally, nationally and internationally. Undergraduate and graduate students receive hands-on experience and classroom instruction as they prepare for careers in the animal and food science industries. The department also develops and delivers statewide Extension programs within these disciplines providing wide-ranging and intensive support for the animal agriculture and food industries within the state of Idaho.

Program Goal (add a minimum of 3 program goal "plan items")

1. Increase enrollment and retention

Goal Statement:

1. Increase enrollment and retention

Alignment to UI Strategic Plan Goals: Transform (Goal 3): Increase our educational impact.

Indicators/Metrics to Evaluate Progress:

Fall 10th day enrollment numbers will be used to measure this goal

List of Actions the Program Will Take to Achieve Goals :

Increase recruitment efforts online via advertising on the internet and in person recruiting via phone calls and campus visits

Goal Achievement Level: In Progress

3. Increase Extension and Outreach

Goal Statement:

Increase extension contacts with customers

Alignment to UI Strategic Plan Goals:

Engage (Goal 2): Suggest and influence change that addresses societal needs and global issues, and advances economic development and culture.

Indicators/Metrics to Evaluate Progress:

number of number extension contacts and activities

List of Actions the Program Will Take to Achieve Goals :

Increase extension publications

Increase number of extension contacts

Goal Achievement Level: In Progress

2. Increase Research Expenditures

Goal Statement:

Increase the grant revenue for AVFS through increased funding of corporate and competitive federal grants through innovative research programs

Alignment to UI Strategic Plan Goals:

Innovate (Goal 1): Scholarly and creative products of the highest quality and scope, resulting in significant positive impact for the region and the world.

Indicators/Metrics to Evaluate Progress:

Total grant dollars per year

List of Actions the Program Will Take to Achieve Goals :

Return overhead dollars to investigators and provide a stimulating environment for research faculty.

Goal Achievement Level: In Progress

Student Learning Assessment Report (add one "plan item" for each major, degree, and/or certificate offered by dept)

B.S. Food Science (Dairy Food Management Option)

Assessment Report Contact: Robert Collier

Program Changes in Past Year:

The 4 year degree program plan is in the process of being evaluated and assessed since its recent separation from the WSU/UI Bi-State School of Food Science and its incorporation into the recently combined Animal, Veterinary and Food Sciences Department at UI and also to ensure its continued alignment for IFT accreditation.

Learning Outcomes are Communicated to All Students in Program (check box if true):

Learning Outcomes are Communicated to All Faculty (check box if true):

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

Summary of Student Learning:

Summary of Faculty Discussion:

Feedback from faculty has included providing an opportunity to increase the depth of scientific and practical knowledge in the area of Food Science and its related disciplines, including discussion opportunities and more in depth review of scientific and industry information and related hands on experiences.

Summary of Changes/Improvements Being Considered:

A more direct assessment of students learning in the senior experience course (FS 489) may be incorporated in the pre- and post-skills learning outcome assessments as well as a more in depth review of presentations. (Aligns with UI Learning Outcomes "Think & Create" and "Communicate.")

Inter-rater Reliability:

Pre-and Post-Skills Assessment evaluations will be refined to better reflect student learning outcomes and also implement and make the scales uniform for 400 level courses.

Closing the Loop:

The quality of skills development relating to the alignment of Learning Outcomes is continually improved and evaluated. In addition, the implementation and evaluation of pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral assessments and presentations continues to be expanded across courses.

B.S. Animal and Veterinary Science (Production Option)

Assessment Report Contact: Stacey Doumit and Amin Ahmadzadeh

Program Changes in Past Year:

The 4 year degree program plan has been modified to incorporate lower division courses previously offered as electives and expand upper division course offerings to allow students to better focus in their interest area within each Degree Option.

Learning Outcomes are Communicated to All Students in Program (check box if true): true

Learning Outcomes are Communicated to All Faculty (check box if true): true

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

- Students will demonstrate the basic knowledge of biological systems and its application in animal production and in-depth knowledge of animal physiology, nutrition, breeding and genetics. (Aligns with UI Learning Outcomes: "Learn & Integrate" and "Think & Create."); **Direct Findings:** (Based on performance in the comprehensive final exam in a senior 400-level capstone [AVS 474]). The performance target is to have Approximately 75% score students earn scores of 80/100 or greater. The average students' grade for the courses was 84%. 82% of the students earned equal or greater than 80/100.
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- Senior and/or junior students will demonstrate knowledge of animal production systems, production management skills, and the economic principles and practices essential for successful livestock production in senior animal production and management courses. (Aligns with UI Learning Outcomes: "Learn & Integrate" and "Think & Create.") **Direct Findings:** (Based on pre- and post-skills assessment evaluation method in AVS 474 [scale of 1 to 5, 1 with no learning knowledge & 5 the highest knowledge]): Learning knowledge and skills across the seven management areas before and after taking the course: Pre= 2.87; Post = 3.81.

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- o Students demonstrate information gathering, critical thinking and demonstrate the ability to write and present scientific information in a professional manner (aligns with UI Learning Outcomes: "*Learn & Integrate*" and "*Clarify Purpose & Perspective*") and critical thinking and soft skills ability through communication, presentations, teamwork, and leadership (aligns with UI Learning Outcomes: "*Think & Create*" and "*Communicate*"). **Direct Findings:** (Based on direct observation and critique of instructor who is stressing writing and speaking skills in response to course assignments and projects in the senior experience course, Issues in Animal Agriculture, AVS 450.) **100% of students in the B.S. AVS Degree program complete this course.** The performance target is to have Approximately 80% score students earn scores of 80/100 or greater. The average grade for this course was 93% and 84% of students earned equal or greater than 90%.

Summary of Student Learning:

Based on a 33% response, students' rating on quality of AVS 450 was 3.1.

Indirect finding: senior student assessment, through Senior Exit Interviews, showed that 80% agreed that the capstone courses were of direct benefit in helping them develop their decision-making skills.

Summary of Faculty Discussion:

Feedback from faculty has included providing an opportunity to increase the depth of scientific and practical knowledge in the area of Animal Science and its related disciplines, including discussion opportunities and more in depth review of scientific and industry information and related hands on experiences.

Summary of Changes/Improvements Being Considered:

A more direct assessment of students learning in the senior experience course (AVS 450) may be incorporated in the pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral presentations. (Aligns with UI Learning Outcomes "Think & Create" and "Communicate.")

Inter-rater Reliability:

All students must complete a minimum of two senior capstone courses (4 species) and complete assessments relating to subject matter including but not limited to the areas of nutrition (feeds & feeding), diseases and health, breeding and reproduction management, young stock development, and genetics (species include beef and/or dairy cattle (AVS 474, AVS 472), as well as sheep and/or equine (AVS 476, AVS 466)).

Pre-and Post-Skills Assessment evaluations will be refined to better reflect student learning outcomes and also implement and make the scales uniform for capstone courses (AVS 466, 472, 474, and 476) and senior experience course (AVS 450).

Closing the Loop:

The quality of skills development relating to the alignment of Learning Outcomes is continually improved and evaluated. In addition, the implementation and evaluation of pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral assessments and presentations continues to be expanded across courses.

B.S. Animal and Veterinary Science (Business Option)

Assessment Report Contact: Stacey Doumit

Program Changes in Past Year:

The 4 year degree program plan has been modified to incorporate lower division courses previously offered as electives and expand upper division course offerings to allow students to better focus in their interest area within each Degree Option.

Learning Outcomes are Communicated to All Students in Program (check box if true): true

Learning Outcomes are Communicated to All Faculty (check box if true): true

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

- o Students demonstrate information gathering, critical thinking and demonstrate the ability to write and present scientific information in a professional manner (aligns with UI Learning Outcomes: "*Learn & Integrate*" and "*Clarify Purpose & Perspective*") and critical thinking and soft skills ability through communication, presentations, teamwork, and leadership (aligns with UI Learning Outcomes: "*Think & Create*" and "*Communicate*"). **Direct Findings:** (Based on direct observation and critique of instructor who is stressing

writing and speaking skills in response to course assignments and projects in the senior experience course, Issues in Animal Agriculture, AVS 450.) **100% of students in the B.S. AVS Degree program complete this course.** The average grade for this course was 93% and 84% of students earned equal or greater than 90%.

Summary of Student Learning:

Based on a 33% response, students' rating on quality of AVS 450 was 3.1.

Indirect finding: senior student assessment, through Senior Exit Interviews, showed that 80% agreed that the capstone courses were of direct benefit in helping them develop their decision-making skills.

The rating on whether expectations for learning outcomes was clearly expressed was 3.7/4.0 in this course.

Summary of Faculty Discussion:

Feedback from faculty has included providing an opportunity to increase the depth of scientific and practical knowledge in the area of Animal Science and its related disciplines, including discussion opportunities and more in depth review of scientific and industry information and related hands on experiences.

Summary of Changes/Improvements Being Considered:

We are in the process of identifying upper division business course(s) to demonstrate achievement of knowledge of farm enterprise evaluation and business, as well as adding questions to our senior exit interview process assessing strengths gained specific to Learning Outcomes as they relate to each Degree Option.

A more direct assessment of students learning in the senior experience course (AVS 450) may be incorporated in the pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral presentations. (Aligns with UI Learning Outcomes "Think & Create" and "Communicate.")

Inter-rater Reliability:

All students must complete a minimum of two senior capstone courses (4 species) and complete assessments relating to subject matter including but not limited to the areas of nutrition (feeds & feeding), diseases and health, breeding and reproduction management, young stock development, and genetics (species include beef and/or dairy cattle (AVS 474, AVS 472), as well as sheep and/or equine (AVS 476, AVS 466).

Pre-and Post-Skills Assessment evaluations will be refined to better reflect student learning outcomes and also implement and make the scales uniform for capstone courses (AVS 466, 472, 474, and 476) and senior experience course (AVS 450).

Closing the Loop:

The quality of skills development relating to the alignment of Learning Outcomes is continually improved and evaluated. In addition, the implementation and evaluation of pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral assessments and presentations continues to be expanded across courses.

An upper-division senior course will be identified to have a more direct assessment of students' learning in the areas of enterprise evaluation and business.

B.S. Animal and Veterinary Science (Dairy Science Option)

Assessment Report Contact: Amin Ahmadzadeh

Program Changes in Past Year:

The 4 year degree program plan has been modified to incorporate lower division courses previously offered as electives and expand upper division course offerings to allow students to better focus in their interest area within each Degree Option.

Learning Outcomes are Communicated to All Students in Program (check box if true): true

Learning Outcomes are Communicated to All Faculty (check box if true): true

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

- Students will demonstrate the basic knowledge of biological systems and its application in animal production, and will demonstrate in-depth knowledge of animal physiology, nutrition, breeding and, genetics. (Aligns with UI Learning Outcomes: "Learn & Integrate" and "Think & Create.") **Direct Findings:** (Based on performance in the comprehensive final exam in a senior 400-level capstone exams [AVS 472]. **100% of students in the B.S. AVS Dairy option take this course.**) The performance target is to have approximately 75% of students earn scores of 80/100 or greater. The average students' grade for the courses was 83.5%. 82.3% of the students earned equal or greater than 80/100.

- o Senior and/or junior students will demonstrate knowledge of animal production systems, production management skills, and the economic principles and practices essential for successful livestock production in senior animal production and management courses (AVS 472). (Aligns with UI Learning Outcomes: "*Learn & Integrate*" and "*Think & Create*."); **Direct Findings:** (in AVS 472, based on pre- and post-skills assessment evaluation method [scale of 1 to 5, 1 with no learning knowledge & 5 the highest knowledge].) Learning knowledge and skills across the eight management areas before and after taking the course: Pre = 2.31; Post = 3.92
- o Students demonstrate information gathering, critical thinking and demonstrate the ability to write and present scientific information in a professional manner (aligns with UI Learning Outcomes: "*Learn & Integrate*" and "*Clarify Purpose & Perspective*") and critical thinking and soft skills ability through communication, presentations, teamwork, and leadership (aligns with UI Learning Outcomes: "*Think & Create*" and "*Communicate*"). **Direct Findings:** (Based on direct observation and critique of instructor who is stressing writing and speaking skills in response to course assignments and projects in the senior experience course, Issues in Animal Agriculture, AVS 450.) **100% of students in the B.S. AVS Degree program complete this course.** The performance target is to have Approximately 80% score students earn scores of 80/100 or greater. The average grade for this course was 93% and 84% of students earned equal or greater than 90%.

Summary of Student Learning:

Based on an 82% response, student rating on quality of AVS 472 was 4.1/5.0.

The rating on whether expectations for learning outcomes in AVS 472 was clearly expressed was 4.4/5.0.

Based on a 33% response, students' rating on quality of AVS 450 was 3.1.

Indirect finding: senior student assessment, through Senior Exit Interviews, showed that 80% agreed that the capstone courses were of direct benefit in helping them develop their decision-making skills.

Summary of Faculty Discussion:

Based on the students input in the capstone course (AVS 472), field trip (dairy farm visit) must stay as an important part of the course and more in-class analysis of dairy farms should be conducted during the class time a head of the field trip. To better prepare students for their final presentation on the field trip, a draft of presentations may be submitted to the instructor to be reviewed. In this way, students have opportunities to improve their presentation.

Feedback from faculty has included providing an opportunity to increase the depth of scientific and practical knowledge in the area of Animal Science and its related disciplines, including discussion opportunities and more in depth review of scientific and industry information and related hands on experiences.

Summary of Changes/Improvements Being Considered:

A more direct assessment of students learning on the field trip may be incorporated in the pre- and post-skills learning outcome assessment (Aligns with UI Learning Outcomes: "*Think & Create*" and "*Communicate*.").

A more direct assessment of students learning in the senior experience course (AVS 450) may be incorporated in the pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral presentations. (Aligns with UI Learning Outcomes "*Think & Create*" and "*Communicate*.")

Inter-rater Reliability:

All students must complete a minimum of two senior capstone courses (4 species) and complete assessments relating to subject matter including but not limited to the areas of nutrition (feeds & feeding), diseases and health, breeding and reproduction management, young stock development, and genetics (species include beef and/or dairy cattle (AVS 474, AVS 472), as well as sheep and/or equine (AVS 476, AVS 466).

Pre-and Post-Skills Assessment evaluations will be refined to better reflect student learning outcomes and also implement and make the scales uniform for capstone courses (AVS 466, 472, 474, and 476) and senior experience course (AVS 450).

Closing the Loop:

The quality of skills development relating to the alignment of Learning Outcomes is continually improved and evaluated. In addition, the implementation and evaluation of pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral assessments and presentations continues to be expanded across courses.

B.S. Animal and Veterinary Science (Science/Pre-Veterinary Option)

Assessment Report Contact: Stacey Doumit and Amin Ahmadzadeh

Program Changes in Past Year:

The 4 year degree program plan has been modified to incorporate lower division courses previously offered as electives and expand upper division course offerings to allow students to better focus in their interest area within each Degree Option.

Learning Outcomes are Communicated to All Students in Program (check box if true): true

Learning Outcomes are Communicated to All Faculty (check box if true): true

Optional: Framework Alignment:**Import Outcomes Data (from Anthology Outcomes):**

- Students will demonstrate the basic knowledge of biological systems and its application in animal diseases, and will demonstrate in-depth knowledge of immunity and disease resistance, transmission, and prevention; clinical signs, pathogenesis, and control of major diseases of economic importance in domestic animals. (Aligns with UI Learning Outcomes: "*Learn & Integrate*" and "*Think & Create*."); **Direct Findings:** (Based on performance in the comprehensive final exam in a senior 400-level capstone [AVS 471]; **100% of students in the B.S. AVS Pre-Veterinary Option take this course.**) The performance target is to have Approximately 80% score students earn scores of 80/100 or greater. The average students' grade for the courses was 87.5%. 93% of the students earned 80% or better, and 71% of the students earned equal or greater than 90%.
- Students demonstrate information gathering, critical thinking and demonstrate the ability to write and present scientific information in a professional manner (aligns with UI Learning Outcomes: "*Learn & Integrate*" and "*Clarify Purpose & Perspective*") and critical thinking and soft skills ability through communication, presentations, teamwork, and leadership (aligns with UI Learning Outcomes: "*Think & Create*" and "*Communicate*"). **Direct Findings:** (Based on direct observation and critique of instructor who is stressing writing and speaking skills in response to course assignments and projects in the senior experience course, Issues in Animal Agriculture, AVS 450.) **100% of students in the B.S. AVS Degree program complete this course.** The performance target is to have Approximately 80% score students earn scores of 80/100 or greater. The average grade for this course was 93% and 84% of students earned equal or greater than 90%.

Summary of Student Learning:

Based on a 33% response, students' rating on quality of AVS 450 was 3.1.

Indirect finding: senior student assessment, through Senior Exit Interviews, showed that 100% agreed that the capstone courses (AVS 471) were of direct benefit in helping them gain knowledge on animal disease diagnosis and management and being able to integrate the knowledge on their decision-making skills on animal welfare.

Summary of Faculty Discussion:

Feedback from faculty has included providing an opportunity to increase the depth of scientific and practical knowledge in the area of Animal Science and its related disciplines, including discussion opportunities and more in depth review of scientific and industry information and related hands on experiences.

Summary of Changes/Improvements Being Considered:

A more direct assessment of students learning in the senior experience course (AVS 450) may be incorporated in the pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral presentations. (Aligns with UI Learning Outcomes "Think & Create" and "Communicate.")

Inter-rater Reliability:

All students in this Option (Pre-Veterinary/Science) must complete AVS 471 (Animal Disease Management). Pre-and post-skills assessment evaluation for this course will be developed to better reflect student learning outcomes.

All students must complete a minimum of two senior capstone courses (4 species) and complete assessments relating to subject matter including but not limited to the areas of nutrition (feeds & feeding), diseases and health, breeding and reproduction management, young stock development, and genetics (species include beef and/or dairy cattle (AVS 474, AVS 472), as well as sheep and/or equine (AVS 476, AVS 466).

Pre-and Post-Skills Assessment evaluations will be refined to better reflect student learning outcomes and also implement and make the scales uniform for capstone courses (AVS 466, 472, 474, and 476) and senior experience course (AVS 450).

Closing the Loop:

The quality of skills development relating to the alignment of Learning Outcomes is continually improved and evaluated. In addition, the implementation and evaluation of pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral assessments and presentations continues to be expanded across courses.

B.S. Food Science (Food Science Option)

Assessment Report Contact: Robert Collier

Program Changes in Past Year:

The 4 year degree program plan is in the process of being evaluated and assessed since its recent separation from the WSU/UI Bi-State School of Food Science and its incorporation into the recently combined Animal, Veterinary and Food Sciences Department at UI and also to ensure its continued alignment for IFT accreditation.

Learning Outcomes are Communicated to All Students in Program (check box if true): false

Learning Outcomes are Communicated to All Faculty (check box if true):

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

Summary of Student Learning:

Summary of Faculty Discussion:

Feedback from faculty has included providing an opportunity to increase the depth of scientific and practical knowledge in the area of Food Science and its related disciplines, including discussion opportunities and more in depth review of scientific and industry information and related hands on experiences.

Summary of Changes/Improvements Being Considered:

A more direct assessment of students learning in the senior experience course (FS 489) may be incorporated in the pre- and post-skills learning outcome assessments as well as a more in depth review of presentations. (Aligns with UI Learning Outcomes "Think & Create" and "Communicate.")

Inter-rater Reliability:

Pre-and Post-Skills Assessment evaluations will be refined to better reflect student learning outcomes and also implement and make the scales uniform for 400 level courses.

Closing the Loop:

The quality of skills development relating to the alignment of Learning Outcomes is continually improved and evaluated. In addition, the implementation and evaluation of pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral assessments and presentations continues to be expanded across courses.

B.S. Food Science (Fermentation Option)

Assessment Report Contact: Robert Collier

Program Changes in Past Year:

The 4 year degree program plan is in the process of being evaluated and assessed since its recent separation from the WSU/UI Bi-State School of Food Science and its incorporation into the recently combined Animal, Veterinary and Food Sciences Department at UI and also to ensure its continued alignment for IFT accreditation.

Learning Outcomes are Communicated to All Students in Program (check box if true):

Learning Outcomes are Communicated to All Faculty (check box if true):

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

Summary of Student Learning:

Summary of Faculty Discussion:

Feedback from faculty has included providing an opportunity to increase the depth of scientific and practical knowledge in the area of Food Science and its related disciplines, including discussion opportunities and more in depth review of scientific and industry information and related hands on experiences.

Summary of Changes/Improvements Being Considered:

A more direct assessment of students learning in the senior experience course (FS 489) may be incorporated in the pre- and post-skills learning outcome assessments as well as a more in depth review of presentations. (Aligns with UI Learning Outcomes "Think & Create" and "Communicate.")

Inter-rater Reliability:

Pre-and Post-Skills Assessment evaluations will be refined to better reflect student learning outcomes and also implement and make the scales uniform for 400 level courses.

Closing the Loop:

The quality of skills development relating to the alignment of Learning Outcomes is continually improved and evaluated. In addition, the implementation and evaluation of pre- and post-skills learning outcome assessments as well as a more in depth review of written and oral assessments and presentations continues to be expanded across courses.

M.S. Animal Science

Assessment Report Contact: Brenda Murdoch, AVFS Director of Graduate Studies

Program Changes in Past Year:

A new AVS graduate student handbook was written and approved by the AVFS faculty, which formally accepted curricula of the graduate program. The only program change for a Masters in Animal Science is that the student is expected to have one manuscript submitted to an appropriate journal prior to thesis defense.

Learning Outcomes are Communicated to All Students in Program (check box if true): true

Learning Outcomes are Communicated to All Faculty (check box if true): true

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

Learning Outcome - Graduate students will possess the ability to effectively perform and communicate, both the written and spoken form, animal agricultural science. They will be able to understand and convey technical scientific information and interpret the scientific findings.

These learning outcomes are measured in two ways. The first is their performance in AVS 501 graduate student seminar. The target performance for this course is that 80% of the students will achieve 90% or greater. The second is their performance in AVS 500, which is the research performance, and then the written and oral defense of their specific research.

The finding of these outcomes in 2021 is all students achieved a 90% or above in AVS 501 graduate student seminar. Further indirect measures of these learning outcomes are that 80% of Masters Student give research presentations at local, national or international meetings and then go on to publish this work in refereed journals.

Summary of Student Learning:

Overall the Animal Science Masters of Science graduate students are achieving the learning outcomes. They are performing research and communicating the scientific research outcomes effectively.

Summary of Faculty Discussion:

Feedback from faculty has included providing in depth scientific and practical knowledge in the area of Animal Science during the graduate student seminar series. This includes discussions about their specific research, related scientific findings and industry experiences and opportunities.

Summary of Changes/Improvements Being Considered:

The change that is still being discussed is making teaching assistance a degree requirement. While many of the students already do this not all students gain experience in assisting with teaching.

Inter-rater Reliability:

In part this is accomplished through the graduate student thesis committee. The expertise and breadth of the committee members ensures that the students are evaluated by multiple faculty and valued accomplished industry members.

Closing the Loop:

M.S. Food Science

Assessment Report Contact:

Program Changes in Past Year:

Learning Outcomes are Communicated to All Students in Program (check box if true):

Learning Outcomes are Communicated to All Faculty (check box if true):

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

Summary of Student Learning:

Summary of Faculty Discussion:

Summary of Changes/Improvements Being Considered:

Inter-rater Reliability:

Closing the Loop:

Ph.D. Animal Physiology

Assessment Report Contact:

Program Changes in Past Year:

A new AVS graduate student handbook was written and approved by the AVFS faculty that formally accepted curricula of the graduate program. The program change includes the expectation of three manuscripts to be submitted to an appropriate journal prior to thesis defense. All students will be required to complete both a written and oral component to the qualifying exam. These changes will create a more consistent exam and thesis format for all AVS Ph.D. graduate students.

Learning Outcomes are Communicated to All Students in Program (check box if true): true

Learning Outcomes are Communicated to All Faculty (check box if true): true

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

Learning Outcome - Graduate students will possess the ability to effectively perform and communicate, both the written and spoken form, animal agricultural science. They will be able to understand and convey technical scientific information and interpret the scientific findings.

These learning outcomes are measured in two ways. The first is their performance in AVS 501 graduate student seminar. The target performance for this course is that 80% of the students will achieve 90% or greater. The second is their performance in AVS 500, which is the written and oral defense of their specific research.

The finding of these outcomes in 2021 80% of the students achieved a 90% or above in AVS 501 graduate student seminar. A further indirect measure of these learning outcomes are that 90% of Ph.D. students have given research presentations at local, national or international meetings and have gone on to publish this work in refereed journals.

Summary of Student Learning:

Overall the doctorate of philosophy in animal physiology graduate students are achieving the learning outcomes. They are performing research and communicating the scientific research outcomes effectively.

Summary of Faculty Discussion:

Feedback from faculty has included providing in depth scientific and practical knowledge in the area of Animal Science during the graduate student seminar series. This includes discussions about their specific research, related scientific findings and industry experiences and opportunities.

Summary of Changes/Improvements Being Considered:

The change that is still being discussed is making teaching assistance a degree requirement. While many of the students already do this not all students gain experience in assisting with teaching.

Inter-rater Reliability:

In part this is accomplished through the graduate student thesis committee. The expertise and breadth of the committee members ensures that the students are evaluated by multiple faculty and valued accomplished industry members.

Closing the Loop:

Ph.D. Food Science

Assessment Report Contact:

Program Changes in Past Year:

Learning Outcomes are Communicated to All Students in Program (check box if true):

Learning Outcomes are Communicated to All Faculty (check box if true):

Optional: Framework Alignment:

Import Outcomes Data (from Anthology Outcomes):

Summary of Student Learning:

Summary of Faculty Discussion:

Summary of Changes/Improvements Being Considered:

Inter-rater Reliability:

Closing the Loop:

Student Achievement

New Student Achievement Item

Student Retention:

Student Persistence:

Student Completion:

Student Postgraduate Success:

Based on the exit interview of senior students, 85% of graduating students expressed satisfaction with the classroom and experiential learning opportunities provided by the Department. The students also agreed that the Department was of direct benefit in helping them develop their decision-making skills. Through classroom and numerous experiential learning activities, AVFS students gain knowledge pertinent to animal agriculture and are actively sought for employment. In addition, significant interactions with industry promote beneficial relationships that match industry needs with appropriate training. As a result, most (>85%) AVS undergraduate students are employed in positions related to their major.

Identify Equity Gaps:

Effective Learning Environment and Closing Equity Gaps: