

Comprehensive Program Review Report



Program Review - Animal Science

Program Summary

2023-2024

Prepared by: Russell McKeith, Kim Pitigliano and Kyle Thompson

What are the strengths of your area?: 1. Continued improvements to animal facilities and equipment. Perkins funding allowed us to purchase a "life size" beef skeleton that can be used in ASCI classes that is supposed to be delivered Fall 2024. COVID most likely had an impact on it being able to be shipped in a timely manner. Werm flooring will be put in the livestock pen trailer to allow animals ride more comfortably. More Hog feeders were purchased since we are farrowing more litters per year and have more pigs at the swine unit for "hands on" opportunities for students. New rubber mats will be purchased to make the hogs in their pens more comfortable than just standing on concrete the entire time. Many of these purchases have been made to increase animal welfare at the COS Livestock Units. Continued hard work from our Instructional Specialist Matt Prater has translated into continually improving grazing within our livestock & equine pastures.

2. We able to hire a replacement ASCI instructor since Dr. Allison Vander Plaats decided to leave. It was critical that we were able to hire a replacement position because our FTES and student enrollment supports the replacement position. Additionally, if you are relying on adjuncts, your program could potentially begin to suffer some with no stability in that position. Therefore, it has been a seamless transition between Dr. Allison Vander Plaats and Dr. Kyle Thompson.

3. Students remain excited about Animal Science courses, and course enrollment and participation has remained high. For Fall 2023 we had full waitlists in our ASCI 001 sections, so some students were not able to join the class like in years past. In the future, we are thinking about adding a fourth section of ASCI 001 for the Fall semester, which would allow us to teach 5 sections of ASCI 001 throughout the academic year.

4. The Veterinary Assisting Certificate continues to gain traction, with more students currently pursuing certificates than previous years with a total of 57. This program is still geared towards preparing students for assistant roles in the veterinary practice by providing them with crucial background information and a set of basic laboratory and animal handling skills. We have noticed many of these students want to complete an ASCI degree after completing their Veterinary Assisting Certificate.

5. With the help of our Animal Science Advisory, our DSCI classes are now completely cross-listed as ASCI classes. This has lead to increase enrollment for DSCI 101 for Fall 2023, as well as make it easier for students to enroll in DSCI classes.

6. The Dairy Science program continues to gain student interest, mostly by overlap of students earning other degrees. The DSCI 104 (now ASCI 119) Breeding & Selection of Dairy Cattle course had 18 students enrolled in Spring 2023, who learned the theory behind cattle reproduction & breeding, & who were then able to apply that theoretical knowledge by visiting local dairies & palpating cows. DSCI 101 (now ASCI 118) Introduction to Dairy Science enrollment has held steady, primarily picking up students who have very little dairy knowledge or experience, with 25 students enrolled for Fall 2023 with our new Animal/Dairy Science Instructor Dr. Kyle Thompson. With Dr. Thompson's expertise in Dairy Science, we believe this program and certificate will continue to grow.

7. The Equine Program has remained with mostly full classes after the pandemic with wait lists in most of the classes this Fall. The Equestrian Team continues to compete at the state and national level and was reserve champion team in the region last year with several top 10 riders in the State. The equine program continues to offer hands on experiences with horses at the veterinarian technician level along with introductory courses on horse training and conditioning.

8. Post COVID, ASCI student enrollment continues to increase. For the 2022-2023 academic year there were 278 ASCI majors which is an increase of 30 majors from 2021-2022 (248 ASCI majors). If you take into account Veterinary Assisting there was enrollment of 335 ASCI students for 2022-2023 compared to 282 ASCI students for 2021-2022. We believe this increase is due to the fact that many young people have a passion for animals/livestock, as well as that we continue to offer most classes in a Face-to-Face modality because we understand the importance of "hands-on" education.

9. In 2020-2021, we had 30 students complete an AS degree in Animal Science, AS-T in Animal Science, and a Certificate in Equine Science. This continues an upward trend established the last couple years as the most degrees awarded in Animal Science. Faculty enthusiasm about their subjects, student appreciation for hands-on learning, & better communication about how to earn degrees has contributed greatly to the growth of the ASCI program.

10. One of our newer classes, ASCI 126: Meat Science continues to increase in popularity. This class transfers to CSU's and UC's with Animal Science Programs where this class equivalent is heavily impacted. Some of these students take our two other Food Safety Classes offered (AGMT 201 and ASCI 202). These classes expose students to the food safety and the food industry where jobs are plentiful here in the San Joaquin Valley.

11. Post COVID, Animal Science faculty and students have continued with outreach activities, most of which were hybrid or virtual activities due to COVID, including FFA contests. Like last year, we will be more involved in community activities like the Tulare County Fair, COS Harvest Fest and the World Ag Expo. Students are also gaining experience outside the classroom by assisting/judging different FFA CDE Events, which were on hiatus during COVID.

12. Annual review of animal health and handling protocols for our livestock units. These protocols continue to be an excellent source of information for both students & faculty. Development of a more formal student training program via Canvas would be ideal, but it has proved difficult to organize information & make it required for student herdsman who are not part of an official class. Instead, we have started videoing common procedures & will likely start by posting videos for review by students. These protocols are still in existence even after Dr. Vander Plaats left.

13. Continual review of the annual review of livestock unit budgets. With this being a focus of the faculty over the past few years, we have really honed in on our budgetary spending from year to year for the COS Livestock Units. We now utilize present year budget data to plan for next year's fiscal budget. Income for the livestock units was at a record high in the last 10 years eclipsing \$40,000 in revenue.

What improvements are needed?: 1. Continuing education for faculty remains important to keep faculty up to date with new information, technologies, and industry trends.

2. Continued student training programs for livestock unit protocols and improved student experience. The Canvas has been set up, & an outline of topics to be covered has been added. We have started videoing common procedures, taking pictures of procedures, supplies, & areas of each unit, & incorporating those into training videos that can be accessed by students at any time. In addition, the requirement to work through these modules, plus volunteering at the livestock units, will be implemented for any students interested in becoming student herdsman. Currently students are hired as herdsman only after they've completed Work Experience and have knowledge of how our units run, but development & implementation of a more formal training program would improve consistency in student experiences and knowledge, which will translate to improved animal handling, sick animal identification and treatment.

3. Addition of a second Animal Science Technician (Part Time). As the Animal Science program continues to grow, a part time second technician is necessary for enhanced lab safety and setup efficiency, help with animal breeding programs and birthing assistance for all species, support with facility projects (fence repair, pasture management), and equipment maintenance (tractors, Gator).

4. ASCI 130 Enrollment in ASCI 130 is up for the Fall 2023 semester. ASCI 130 Equine Evaluation has been an elective course for both the ASCI Certificate of Achievement and Associates degree, so that students can choose to take either Equine Evaluation or Livestock Evaluation (ASCI 002). Advertisement of this course as an alternative elective course has helped increase enrollment. This class can also be put in front of the GE committee with some curriculum changes, which would help enrollment.

5. Continue to have better communication with counselors regarding open courses, available certificates, & career paths related to each certificate. Because we have a variety of animal-related certificates falling within ASCI & VT, plus the addition or modification of existing certificates, counselors understandably are directing students to courses or certificates that don't necessarily match up with each student's career goals. Better communication about what each certificate's goals are, which courses are required, & overlap between courses in similar areas is essential to increase student enrollment, increase certificate completers, & increase overall student satisfaction with their education & career. Ideally, a dedicated Pathways Counselor would be very beneficial at TCC.

6. Continue to improve student metrics and demographics. It is still difficult to determine which students in our ASCI/DSCI/VT courses are tracking for which certificate or degree. Ideally, we would have a list of students for each degree or certificate to build better relationships with them & assist them with getting courses they need for completion of certificates & degrees or for achieving whatever career goals they have in mind. We could improve this by working with the Research Office or with the CTE Data Analyst to obtain more accurate data within our program.

7. Power/Electricity at the cattle working facilities at the COS Livestock Units. It would be very helpful to not be dependent on a generator to perform certain livestock techniques. Additionally, lighting would make it safer to conduct these techniques at night if necessary.

8. Animal Science Course Success for 2022-2023 was 71.37% for overall ASCI course completion rate in Fall 2022 and 76.32% for Spring 2023. COS ASCI classes were below the state course completion rate for 2021-2022 academic year. This could continue to be attributed to students dropping classes or decide not to attend classes anymore and take a non-passing grade for the course. This past year only one "online" class was offered in ASCI, so students are acclimating to being back completely F2F.

9. Continued recruitment of students and completers for the COS Food Safety Skill Certificate. This certificate is housed between the Agriculture Business Department and Animal Science. We have opted to offer the sequence of classes every other year to try and get a larger group of students to complete the certificate and take the required courses. We have discussed adding AGMT 103 to the Curriculum and WEXP to make it an 18 unit certificate. Currently it is only 12 unit Skills Certificate, and students may be more enticed with it being an 18 unit Certificate of Achievement. Additionally, there are financial aid implications on skills certificates.

10. Enhancing some of our Animal/Equine Science "Hands On" Reproduction laboratories with new industry techniques like embryo transfer and embryo classification. A new microscope would be necessary to accomplish this because our antiquated microscopes are not appropriate to use. This would really enhance student's learning of these topics in our Animal/Equine Science classes.

11. Artificial Insemination training for Animal/Equine students could create opportunities for "in demand" jobs locally. Students could get certified through a "third party" for successful completion of a short course. To familiarize students with bovine reproductive anatomy first, practicing on a cow dummy would be important. Henryetta the dairy cow is a "life size" model" students can utilize/practice on. for breeding cattle.

12. Student safety at night is important for the COS Livestock Units. Currently, lack of lighting makes it dangerous for students to work with livestock/horses at night. Better lighting is necessary to mitigate potential accidents for students and faculty working with livestock/horses at night. We have been able to use portable lights that have been working amazing this semester and have eliminated most of the safety issues for the time being. This lighting is shared with Plant Science labs so the need for permanent lighting is still being requested.

13. Animal comfort/welfare could be improved with improved facilities in the Dairy/Beef Pen and the Swine Farrowing Room. New fans/shade cloth would increase animal comfort and animal welfare since these facilities are continually being used consistently throughout the entire year.

14. Meat Cookery is a component of ASCI 126: Meat Science. Demonstrating different cookery techniques and protein sampling in lab enhances students ability of understanding this complex product. To complete this task, meat cookery equipment is necessary, which is currently non-existent.

Describe any external opportunities or challenges.: 1. Continued participation of student clubs in COS Harvest Fest to showcase our students, facilities, and programs to prospective students and the community.

2. The COS Equestrian Team competes year round in both the Fall and Spring Semesters. The team introduces Non-Agriculture students to become students in Agriculture, while it additionally allows students majoring in Agriculture to be athletes for COS. The team participates in both state and national horse shows.
3. Intercollegiate Horse Show Association (IHSA) horse shows and community equine events to showcase our students and facilities.
4. FFA Field Days and other activities to showcase our facilities and make connections with local 4H/FFA chapters, both students and faculty alike.
5. Students have been very successful competing in the Collegiate Livestock Shows this past year through participation in ASCI 224: Livestock Merchandising. These students brought many ribbons and banners back to COS to display in the AG Display Case on the second floor of TCC Building B.
6. Continued student participation in high level internships like the Kentucky Equine Management Internship, Seaboard Foods, American Foods Group, UC Davis VMTRC, and more.
7. Our continued collaboration with the Tulare County Fair with students helping facilitate and assist in running the Livestock shows and Junior Livestock Auction. This gives students a different "hands-on" experience in Animal Science while contributing back to their community.
8. In partnership with Texas A&M Kingsville, we were awarded a USDA NIFA Grant for \$650,000. This grant is to help rejuvenate the defunct COS Meats Judging Team, as well as get student completes in Meats Industry certifications, This will hopefully open up other avenues for students in Animal Science Pathway by exposing them to the Food/Meat Science sector.
9. A new organization that will be introduced into the equine program this Fall is the American Collegiate Horsemen's Association (ACHA). This program unites collegiate horsemen of all levels and disciplines by promoting leadership, education, service and national affiliations. ACHA also hosts a national convention to bring student and chapter members together to learn more about the horse industry and develop their leadership skills through tours, panel discussion and other networking opportunities. This program will give the non-riding student an opportunity to be more involved at the state and national level.
10. Continued support of local producers of horses, sheep, swine, and cattle to form the basis of our breeding herds. This year we have purchased 9 lambs, 1 Shorthorn heifer, and 4 breeding gilts to increase the genetics in the COS livestock herds.
11. Sale of COS livestock to local 4H/FFA members to showcase our genetics and present COS as a high quality college experience. Despite the lack of fairs & shows, livestock sales was excellent at \$41,000. Livestock sales have continued to increase over the past few years. This is due to establishing strong relationships with feeder high schools, and showcasing our genetic improvement in our livestock.

Overall SLO Achievement: SLO's for all animal science classes were above the state average measurement for student success for course success. For Spring 2023, COS students had a student success rate of 76.32% compared to the state average of 79.53%. On the contrary, COS students had a student success rate of 71.37% in Fall 2022 compared to the state average of 77.02%. The fall percentage could be lower because of the learning loss due to COVID. For the 2022-2023 Academic year, all but 1 class was taught online in the ASCI department. As stated previously, we had 33 students complete ASCI degrees and certificates this last year, which is up three awards compared to the previous year.

Changes Based on SLO Achievement: Success has dropped some this past year, so we should investigate more as to why? We continue to make student centered changes in the department to try and help increase our student success in each of our classes, Moreover, this data substantiates that our students learn/comprehend information better in a face-to-face modality. This type of instruction is critical for CTE based programs.

Overall PLO Achievement: There were 278 unduplicated students enrolled in ASCI classes for the 2022-2023 academic year. We had 22 students awarded Animal Science Degrees (AS and AS-T) and 11 students receiving Animal Science, Equine Science, and Vet Assisting Certificates.

Changes Based on PLO Achievement: We need to continue as a department to emphasize completion rates for degrees and certificates. I do think the fruits of our labor are beginning to show this, This can be achieved by offering more sections of Animal Science classes, as well as continuing to encourage students to complete their certificates and degrees. An additional technician would be able to assist with more laboratory classes being offered, which would hopefully increase student success.

Outcome cycle evaluation: The animal science department has assessed courses and reviewed assessment as listed in Trackdat

for Fall 2022 and Spring 2023. The courses that still need to be evaluated in Trackdat are ASCI 022, ASCI 104, ASCI 110 ASCI 123, ASCI 124, ASCI 130, ASCI 140 and ASCI 141.

Action: 2023-2024 Purchase special tie poles for equine training and safety

Purchase of a "Patient Pole" is needed to complete this request.

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Implementation Timeline: 2023 - 2024

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Identify related course/program outcomes: ASCI 124 #2 Upon completion of this course students will be able to halter, lead and tie a young horse safely.

Person(s) Responsible (Name and Position): Kim Pitigliano

Rationale (With supporting data):

Priority: High

Safety Issue: Yes

External Mandate: No

Safety/Mandate Explanation: Safety is extremely important when working with and training equines. A "Patient Pole" is helpful in allowing student and animal safety while working hands on with the equine.

Resources Description

Equipment - Instructional - "Patience Pole", requires digging hole, cement, material (Poles, clamps) (Active)

Why is this resource required for this action?: Patient poles are needed to teach students up to date, hands-on, training methods to help engage them with entry level employment upon graduation.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 7000

Link Actions to District Objectives

District Objectives: 2018-2021

District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points

District Objectives: 2021-2025

District Objective 2.4 - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.

Action: 2023-2024 Enhancing Student Laboratories in Livestock Reproduction

Purchase a Bovine AI Train model so students can properly learn and demonstrate how to AI cattle before breeding live cows. Additionally, train students in proper techniques of Embryo Transfer including identifying, grading and sorting viable embryos.

Leave Blank:

Implementation Timeline: 2023 - 2024

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Identify related course/program outcomes: ASCI 119: Upon completion of this course, students will be able to demonstrate proper semen thawing & artificial insemination technique.

ASCI 123 Given a bred mare or reproductive scenario, students will be able to demonstrate understanding proper equine care from gestation through foaling. This will include applying record management to equine health decisions. The student will be

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evaluated in this area by demonstrating his problem solving ability with a production scenario problem to include health and reproduction. The student must consider all possible management decisions to classify the problem.

ASCI 123: Mare and Foal Management Students will foal out a mare, entered correct bookkeeping and learn neonatal and mare care.

Person(s) Responsible (Name and Position): Russell McKeith, Kim Pitigliano, Kyle Thompson

Rationale (With supporting data):

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Resources Description

Equipment - Instructional - Holstein Bovine Artificial Insemination Training Model that is "life size" for practicing breeding cows. (Active)

Why is this resource required for this action?: For students to gain experience/confidence breeding cattle using an industry technique Artificial Insemination. Much better to gain practice and confidence on a model before practicing on live cows.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 22000

Equipment - Instructional - Microscope with Camera to detect and sort viable embryos. (Active)

Why is this resource required for this action?: Students will be able to utilize this piece of equipment to understand how to identify and grade viable embryos to breed livestock with. Industry standards require 50X lens and the bottom lens needs to be wider for more clarity of viable embryos.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 7000

Link Actions to District Objectives

District Objectives: 2021-2025

District Objective 2.1 - Increase the number of students who earn an associate degree or certificate (CTE and non-CTE) by 5% from 2021-2025.

District Objective 2.4 - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.

District Objective 4.1 - Increase the effective use of data and transparency in decision making at all institutional levels from 2021-2025.

Action: 2023-2024 Improve Animal Welfare of COS Dairy Pen

To purchase fans and a shade cloth/structure over headlocks to maximize animal comfort.

Leave Blank:

Implementation Timeline: 2023 - 2024

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Identify related course/program outcomes: ASCI 111: Upon completion of this course students will be able to list, explain, and demonstrate basic management practices for beef cattle production.

ASCI 119: Upon completion of this course, students will be able to safely move animals, work with animals in headlocks, & move around animals.

ASCI 119: Upon completion of this course students will be able to demonstrate and apply industry data to the selection of sires for breeding dairy cattle.

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Person(s) Responsible (Name and Position): Russell McKeith and Kyle Thompson

Rationale (With supporting data):

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Resources Description

Equipment - Instructional - Fans and Shade Cloth/Structure for Animal Welfare/Cow Comfort. This will also decrease heat stress during periods of extreme heat. (Active)

Why is this resource required for this action?: To maintain comfort and longevity of the COS Cow Herd. Also, to prevent heat stress and other health risks associated with extreme heat conditions. This allows students to practice industry standard as it pertains to cattle comfort and animal welfare.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 55000

Link Actions to District Objectives

District Objectives: 2021-2025

District Objective 2.1 - Increase the number of students who earn an associate degree or certificate (CTE and non-CTE) by 5% from 2021-2025.

District Objective 2.4 - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.

District Objective 4.1 - Increase the effective use of data and transparency in decision making at all institutional levels from 2021-2025.

Action: 2023-2024 Enhancing Meat Cookery Laboratories in ASCI classes

To purchase a smoker to have another implement to prepare cooked food products for students in meat cookery labs.

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Implementation Timeline: 2023 - 2024

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Identify related course/program outcomes: ASCI 126 SLO #1 The student will obtain knowledge of general history, food safety, inspection, harvest, fabrication, quality and processing of meat products.

ASCI 126 SLO #4 The student will understand the role of livestock and meat industry in producing and providing safe and wholesome protein to the world.

Person(s) Responsible (Name and Position): Russell O. McKeith

Rationale (With supporting data): Currently, there is only a charcoal bbq to utilize for meat cookery labs. It would be great to demonstrate to students how different cookery equipment cooks products differently.

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Resources Description

Equipment - Instructional - A Pellet Smoker (Active)

Why is this resource required for this action?: To be able to show students different types of cookery equipment and

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there impacts on meat cookery. This will provide better "hands-on" laboratories for ASCI 001 and ASCI 126.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 1000

Link Actions to District Objectives

District Objectives: 2018-2021
District Objective 1.1 - The District will increase FTES by 1.75% over the three years
District Objective 2.1 - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years
District Objective 2.2 - Increase the number of students who transfer to a four-year institution by 10 percent over three years
District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points
District Objective 4.1 - Increase the use of data for decision-making at the District and department/unit level
District Objective 4.3 - College of the Sequoias Board of Trustees, administration, faculty, and staff will engage in best practices and staff development to sustain effective operational systems for institutional assessment and continuous improvement.
District Objectives: 2021-2025
District Objective 2.1 - Increase the number of students who earn an associate degree or certificate (CTE and non-CTE) by 5% from 2021-2025.
District Objective 2.2 - Increase the number of students who are transfer-ready by 15% and students who transfer to four-year institutions by 10% from 2021-2025.
District Objective 2.4 - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.
District Objective 4.1 - Increase the effective use of data and transparency in decision making at all institutional levels from 2021-2025.
District Objective 4.3 - Improve professional development practices District-wide for all District employees to support equity and operational effectiveness from 2021-2025.

Action: 2022-2023 Objective #1: Maintain efficiency and increase/maintain level of course offerings to ensure program completions and transfer.

Maintain efficiency of our Animal Science program and maintain/grow course offerings and have excellent maintained laboratory facilities AND ensure continued growth of our certificate completers, degrees completers and transfers.

Leave Blank:

Implementation Timeline: 2022 - 2023

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Identify related course/program outcomes: Animal Science Program Outcome #1: Demonstrate knowledge, practical skills and abilities in animal health and welfare, housing and environment, food products, genetics, nutrition, and reproduction to successfully work in the food animal industry.

Animal Science Program Outcome #2: Identify and operate equipment and technology commonly used in the food animal industry.

Animal Science Program Outcome #3: Communicate professionally both in oral and written formats demonstrating sound knowledge of the food animal industry in that communication.

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Animal Science Program Outcome #4: Describe and develop the necessary skills and requirements for pursuing careers in the food animal industry.

Person(s) Responsible (Name and Position): Kim Pitigliano and Russell McKeith

Rationale (With supporting data): Since Dr. Vander Plaats arrival 4 years ago, we have increased our offering of Animal Science courses and all of those enrollments have increased. We went from low enrolled dairy science courses to courses with waitlists. We also have revised our veterinary program to have a Vet Assisting program that is at full-capacity with waiting lists. Dr. Vander Plaats also provided an additional section of Animal Science. Additionally, the need for a faculty member to share the burden of the Livestock Units is crucial to having the best labs for our students. To maintain efficiency of our Animal Science program and maintain/grow course offerings and have excellent maintained laboratory facilities, we desire the approval to hire an Animal Science Faculty member to replace Dr. Allison Vander Plaats who is leaving at the end of Fall 2022 semester. To maintain our Animal Science course offerings, degrees and certificates it is paramount to have get a replacement full time professor.

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Update on Action	
<p><i>Updates</i></p> <p>Update Year: 2023 - 2024</p> <p>Status: Action Completed</p> <p>This action was completed with the replacement position of the Tenure Track ASCI position being filled.</p> <p>Impact on District Objectives/Unit Outcomes (Not Required):</p>	08/27/2023

Link Actions to District Objectives

District Objectives: 2018-2021	
District Objective 2.1 - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years	
District Objective 2.2 - Increase the number of students who transfer to a four-year institution by 10 percent over three years	
District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points	
District Objective 4.1 - Increase the use of data for decision-making at the District and department/unit level	
District Objective 4.3 - College of the Sequoias Board of Trustees, administration, faculty, and staff will engage in best practices and staff development to sustain effective operational systems for institutional assessment and continuous improvement.	
District Objectives: 2021-2025	
District Objective 1.1 - The District will increase FTES 2% from 2021 to 2025.	
District Objective 2.1 - Increase the number of students who earn an associate degree or certificate (CTE and non-CTE) by 5% from 2021-2025.	
District Objective 2.4 - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.	
District Objective 4.1 - Increase the effective use of data and transparency in decision making at all institutional levels from 2021-2025.	
District Objective 4.3 - Improve professional development practices District-wide for all District employees to support equity and operational effectiveness from 2021-2025.	

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Action: 2022-2023 Objective #2: Maintain and expand all laboratory activities, specifically Animal Science and Athletics

Maintain and expand all laboratory activities for all Ag Division departments, including Animal Science and Athletics through replacement of a 3/4 ton 4 Door 4WD Truck with the ability to pull gooseneck trailers for the Agriculture Division activities.

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Implementation Timeline: 2022 - 2023

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Identify related course/program outcomes: ASCI 001 Outcome #1: Upon completion of this course students will be able to restrain, move and safely monitor livestock from pen to trailer.

ASCI 140 Outcome #2: Given safety expectations and consequences, students will be able to analyze and apply techniques and practices to proper safe animal handling.

ASCI 141 Outcome #3: Safe animal handling for horses Analyze techniques and practice safe animal handling for horses with varying temperaments.

Person(s) Responsible (Name and Position): Kim Pitigliano and Russell McKeith

Rationale (With supporting data): The ASCI department uses 3/4 ton 4WD pickup for multiple functions. On almost a weekly basis, animals are transported for classes and/or activities, including routine health/maintenance visits to local veterinarians. The truck is used to haul hay, pick-up feed as well as other activities such as Collegiate Livestock Shows, Horse Club activities and delivering sale project animals to HS FFA Programs and 4-H Chapters.

Please note, even though this is an Animal Science request, the truck is not only used for the Animal Science Department but is also used by Athletics Department to transport horses to ISHA Equestrian Shows around the state.

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Update on Action

Updates

Update Year: 2023 - 2024

08/27/2023

Status: Continue Action Next Year

This is in the process of being purchased through COS Above Base Budget for the 2022-2023 Academic Year. Currently, we are still waiting for the build and delivery of the truck, but the money has been allocated.

Impact on District Objectives/Unit Outcomes (Not Required):

Resources Description

Equipment - Instructional - Replacement 4 Door 4WD Truck capable of pulling gooseneck trailers for the Agriculture Division. (Active)

Why is this resource required for this action?: The ASCI department uses 3/4 ton 4WD pickup for multiple functions. On almost a weekly basis, animals are transported for classes and/or activities, including routine health/maintenance visits to local veterinarians. The truck is used to haul hay, pick-up feed as well as other activities such as Collegiate Livestock Shows, Horse Club activities and delivering sale project animals to HS FFA Programs and 4-H Chapters. This will allow all AG Faculty and Students to participate in multiple events needing livestock on the same weekend. This will allow all AG Faculty and Students to participate in multiple events needing livestock on the same weekend.

Please note, even though this is an Animal Science request, the truck is not only used for the Animal Science Department but is also used by Athletics Department to transport horses to ISHA Equestrian Shows around the state.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 80000

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Link Actions to District Objectives

District Objectives: 2018-2021
District Objective 2.1 - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years
District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points
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District Objectives: 2021-2025
District Objective 2.1 - Increase the number of students who earn an associate degree or certificate (CTE and non-CTE) by 5% from 2021-2025.
District Objective 2.4 - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.
District Objective 4.1 - Increase the effective use of data and transparency in decision making at all institutional levels from 2021-2025.
District Objective 4.3 - Improve professional development practices District-wide for all District employees to support equity and operational effectiveness from 2021-2025.

Action: 2022-2023 Objective #3: Maintain laboratory facilities, specifically pastures

As pasture management is required to maintain the learning objectives for multiple classes, the ASCI department is requesting an 8 foot Flail Mower.

Leave Blank:

Implementation Timeline: 2022 - 2023

Leave Blank:

Leave Blank:

Identify related course/program outcomes: ASCI 104#6 Upon completion of this course students will be able to explain and develop a practical sanitation program for a livestock facility.

Person(s) Responsible (Name and Position): Kim Pitigliano

Rationale (With supporting data): Pasture/range management is a fundamental skill and part of the learning objectives for multiple classes. This mower is needed for pasture management in several classes and will be used by our farm technician to mow toxic weeds and maintain the grasses through multiple seasons. Maintenance of pastures provides better quality nutrients for the animals and requires less water used during irrigation. These are all sound principles taught throughout our courses.

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Update on Action
<i>Updates</i>
Update Year: 2023 - 2024
Status: Action Completed
08/27/2023

Program Review - Animal Science

This was purchased with funds through the COS Above Base Budget process.

Impact on District Objectives/Unit Outcomes (Not Required):

Resources Description

Equipment - Instructional - 8 foot Flail Mower (Active)

Why is this resource required for this action?: As pasture management is required to maintain the learning objectives for multiple classes, the ASCI department is requesting an 8foot Flail Mower.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 8000

Related Documents:

[8footflailmower.pdf](#)

Link Actions to District Objectives

District Objectives: 2018-2021

District Objective 2.1 - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years

District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points

District Objective 4.3 - College of the Sequoias Board of Trustees, administration, faculty, and staff will engage in best practices and staff development to sustain effective operational systems for institutional assessment and continuous improvement.

District Objectives: 2021-2025

District Objective 2.1 - Increase the number of students who earn an associate degree or certificate (CTE and non-CTE) by 5% from 2021-2025.

District Objective 2.4 - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.

District Objective 4.1 - Increase the effective use of data and transparency in decision making at all institutional levels from 2021-2025.

District Objective 4.3 - Improve professional development practices District-wide for all District employees to support equity and operational effectiveness from 2021-2025.

Action: 2022-2023: 2021-2022 Objective #4: Improved student learning and retention

Students learn through multiple senses. Using a physical model to demonstrate the retail and wholesale cuts from a beef carcass, student learning will improve.

Leave Blank:

Implementation Timeline: 2021 - 2022, 2022 - 2023

Leave Blank:

Leave Blank:

Identify related course/program outcomes: ASCI 126: Meat Science SLO #3 - The student will demonstrate safe and sanitary techniques for processing beef, sheep and pork carcasses into wholesale cuts and retail products.

Person(s) Responsible (Name and Position): Russell McKeith

Rationale (With supporting data):

Priority: High

Safety Issue: No

Program Review - Animal Science

External Mandate: No

Safety/Mandate Explanation:

Update on Action	
<i>Updates</i>	
Update Year: 2023 - 2024	08/27/2023
Status: Action Completed	
This item was purchased through the COS Above Base Budget process.	
Impact on District Objectives/Unit Outcomes (Not Required):	

Resources Description

<p>Equipment - Instructional - Beef Carcass Model (Active)</p> <p>Why is this resource required for this action?: To show students where certain wholesale and retail cuts come from on a beef carcass. They will better understand where these different meat products come from.</p> <p>Notes (optional):</p> <p>Cost of Request (Nothing will be funded over the amount listed.): 5000</p>

Link Actions to District Objectives

District Objectives: 2018-2021
District Objective 1.1 - The District will increase FTES by 1.75% over the three years
District Objective 2.1 - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years
District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points
District Objective 4.1 - Increase the use of data for decision-making at the District and department/unit level
District Objective 4.3 - College of the Sequoias Board of Trustees, administration, faculty, and staff will engage in best practices and staff development to sustain effective operational systems for institutional assessment and continuous improvement.
District Objectives: 2021-2025
District Objective 2.1 - Increase the number of students who earn an associate degree or certificate (CTE and non-CTE) by 5% from 2021-2025.
District Objective 2.2 - Increase the number of students who are transfer-ready by 15% and students who transfer to four-year institutions by 10% from 2021-2025.
District Objective 2.4 - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.
District Objective 4.1 - Increase the effective use of data and transparency in decision making at all institutional levels from 2021-2025.
District Objective 4.3 - Improve professional development practices District-wide for all District employees to support equity and operational effectiveness from 2021-2025.