Program Review Annual Update
2010-2011

Self Study Date: (Academic Program Reviews/Self-Study are completed on a 4 -year cycle)

Program Review Annual Update (AU): (Conducted annually for 3 years following the self study)

College: Yuba College

Program: Veterinary Technology

Year of Review: 2011

Date of Next Scheduled Self-Study Program Review: 2014

1) Based upon the data provided, briefly explain the current status of the program.

Annual	**2010-11**	**2009-2010**
FTEF	3.00	2.70
FTES	89.57	66.79
WSCH	2687.10	2003.70
WSCH/FTEF	447.85	371.06

The data provided reflects an increase of 83% in WSCH/FTEF, 75% increase in FTES, 75% increase in WSCH and a 90% increase in FTEF from the preceding year. We currently have 0.97 full time and 2.03 adjunct faculty members. Below is excerpted information on the career outlook of the veterinary technician taken from the Bureau of Labor Statistics, Occupational Outlook Handbook (2011). The increase in demand for Yuba College Veterinary Technology classes coupled with the BLS occupational outlook signifies strong demand for educational opportunities which enable individuals to pursue careers in veterinary technology.

"Job prospect: Excellent job opportunities are expected because of the relatively few veterinary technology graduates each year. The number of 2-year programs has recently grown to 131, but due to small class sizes, fewer than 3,000 graduates are anticipated each year, which is not expected to meet demand."

Projections data from the National Employment Matrix							
Occupational Title	SOC Code	Employment, 2008	Projected Employment, 2018	Change, 2008-18		Detailed Statistics	
				Number	Percent		
Veterinary technologists and technicians	29-2056	79,600	108,100	28,500	36	[PDF]	[XLS]
NOTE: Data in this table are rounded. See the discussion of the employment projections table in the *Handbook* introductory chapter on *Occupational Information Included in the Handbook*.							

http://www.bls.gov/oco/ocos183.htm

2) Explain significant changes in the program since the last program review or annual update.

Below is a list of changes implemented within the Veterinary Technology Program in the past year:

- Received continued Full Accreditation Status from the American Veterinary Medical Association (AVMA)
- Proposed Program curriculum changes have all been completed: restructuring and implementation of new course requirements began at the start of the fall semester, 2011.
- Reworked student handbook to correlate with other Allied Health Science and Yuba College campus programs
- Completed the AVMA request to re-classify the Program RVT position more accurately to reflect industry knowledge, skills and abilities duties of the position.
- Added an MOU with Yuba County Animal Care Services
- Animal health care provided at Yuba County Animal Care Services facilities six days per week 9 hours per day
- Reclassified Program RVT position
- Increased outreach to local community
- Increased books available to the college library
- Program presentations to 9 local school and program career days
- Board exam results have improved over the past four years (100% pass rate in 2011)
- Addition of Shelter Medicine Certificate of Achievement
- Addition of Public Health and Food Safety Certificate of Achievement
- Addition of Laboratory Animal Medicine Certificate of Achievement
- Addition of Large Animal Care and Management Certificate of Achievement
- Received Perkins Grant for dental equipment and veinipuncture models to meet AVMA requirements
- Purchased state-of-the-art records and management software package
- Two staff members presented Yuba College Crossing Borders presentations

- Bonnie Loghry presented a scientific paper at the national meeting of the AVTE
- Program membership for all faculty and students in the Sacramento Valley American Association for Laboratory Animal Science
- Updated and rewrote all course syllabi, placing all online and in the Division Office
- Incorporated SLO's into all course syllabi

3) Briefly explain significant changes expected during the upcoming year.
    - Implement Shelter Medicine Certificate of Achievement; implementation time line 2012; budgetary impact none; responsibility: Program Director
    - Implement Public Health and Food Safety Certificate of Achievement; implementation time line 2012; budgetary impact none; responsibility: Program Director
    - Implement Laboratory Animal Medicine Certificate of Achievement; implementation time line 2012; budgetary impact none; responsibility: Program Director
    - Implement Large Animal Care and Management Certificate of Achievement; implementation time line 2012; budgetary impact none; responsibility: Program Director
    - Improve the quality and quantity of students, recruitment and retention procedures, and post-graduate placement through use of media resources and Program promotion; implementation time line 2012-2014; budgetary impact <$500; responsibility: Program Director
    - Evaluate student selection options and subsequent retention; implementation time line 2012; budgetary impact none; responsibility: Program Director
    - Increase the recruitment of nontraditional students through media resources; implementation time line 2012; budgetary impact <1000; responsibility: Program Director
    - Implement fully online Veterinary Technology Program application process
    - Approval of Veterinary Assisting Certificate of Achievement requirements by the National Association of Veterinary Technicians in America (NAVTA)

4) Briefly identify the current program needs in each of the following areas:

    a. Curriculum and Program Direction

- Program will continue with current course offerings but will expand presence in the certificate arena. Special emphasis will be placed on shelter medicine and laboratory animal medicine. Cost: none.
- It is anticipated that the Advisory Board will be restructured over the course of the next two years in order to improve representation from the various facets of

veterinary medicine (private business, laboratory, corporate, government, etc). Cost: none.

- Local high school and secondary school student recruitment will increase substantially: cost: none.
- In order to maintain currency in veterinary technology educational topics and methodology the AVMA has required that the Program Director and RVT attend the Association of Veterinary Technician Educators Conference held every other year. The cost to attend this conference is approximately $2000 (including air fare, accommodations and registration); in-service money is currently insufficient to cover this cost therefore staff has not attended these mandated meetings. Funding has been denied 2006-2011.
- AVMA request: Restrictions on enrollment and current capacity be improved; cost: none.
- AVMA request: The Program Director requires sufficient time for the development and implementation of the curriculum changes and expansion. College reimbursement plans for a payment option for new course development has been denied when requested 2006-2011; cost to Yuba College: none.
- AVMA request: Efforts continue to be made to improve Program outcomes as assessed by graduate performance on the California RVT examination and on the VTNE; cost to Yuba College: none.
- AVMA request: The importance of including contemporary curriculum improvements that include: current clinical skills such as dental prophy training in multiple species, patient monitoring and patient care management is critically important ; cost to Yuba College: none.

b. Staffing

- The Program continues to be in dire need of additional staff. Both the AVMA and the Yuba College Veterinary Technology Program Advisory Board have specifically requested that the Program have additional RVT support to meet expanding needs; 1.0 FTE Instructional Associate – Labs currently have inadequate student to faculty ratios. Faculty with a primary assignment to provide an open lab to serve students is necessary. This proposal is to fund 1.0 FTE Instructional Associate within our Program to support the RVT in his/her inventory, equipment maintenance and clerical tasks. The additional lab time will help students acquire needed skills and reduce the attrition rate. Hire additional RVT support to meet expanding needs; implementation time line 2012; budgetary impact ~ $40,000.00 per year; responsibility: Yuba College
- AVMA request: The Program requires additional clerical and secretarial support. The Program has great need of clerical support. Although there is shared secretarial support, it is inadequate leaving many tasks to be completed by Program staff and the Director. This is an inefficient use of expertise and time which requires correction. Hire additional clerical and secretarial support. The Program has great need of clerical support; implementation time line 2012;

budgetary impact ~15,000.00/year. The Health Sciences Programs (Radiologic Technology, Psych Technology and Veterinary Technology) are all in need and are willing to split a clerical and secretarial support person three ways; responsibility: Yuba College MESH Division Estimated Cost: $34,142-39,241

- New faculty request has been made and denied 2006-2010. An additional full-time faculty person is needed to assist in teaching the courses offered on campus. We currently have 0.97 full time and 2.03 adjunct faculty members. Estimated Cost: $50,397-81,126
- Yuba College Advisory Board request: Hire a FTE Student Instructional Assistant for academic success. Need for Veterinary Technology Peer Tutors – Peers are often more familiar with what a student does not know or why they do not know it because they are more closely tied to the learning process than the faculty. The peer tutors, as Vet Tech students, would be recruited, hired, and trained to fulfill their role by providing support to Vet Tech students in the laboratory. Peer tutors are expected to reduce the attrition rate. This proposal addresses these issues. Hire one FTE Student Instructional Assistant (two students at half-time status) for improved academic success; implementation time line 2012; budgetary impact ~ $9000.00; responsibility: Yuba College MESH Division

c. Equipment/Technology

- While we have been fortunate to receive funding from Perkins and instructional equipment grants the office computers are in need of updating. The computer and printer utilized by the Program RVT have already been worked on by IT staff and its demise is anticipated in the very near future. Classroom computer crashed this fall costing us all files and student photographs. Repair by IT was inadequate and DVD player remains non-functional. Repair requests ignored. Although backups of files are made as often as possible, loss of crucial documents is expected due to lack of IT maintenance of the equipment. Estimated Cost: $ 2500
- AVMA request: Money needs to be set aside for regular Program equipment maintenance. Estimated Cost: $ 2500
- The Veterinary Technology Program is in need of augmenting the numbers of smaller, specialized pieces of equipment that are too expensive to be purchased in sufficient quantities from the program instructional budget Estimated Cost: see below
- New teaching aids, library textbooks, DVD's, microscope slide sets, skeletons, models and equipment. Estimated Cost: see below
- Simulation models as well as improved equipment at industry standards are all required to improve current student retention and licensing examination passage rates. Estimated Cost: see below

- Update instructional equipment to industry standards.

Surgery Table	Industry Standard Surgery Table	$4946.80

- AVMA requested additional educational instruction tools.

Disease Bacteria Slide Set + Fungi Slide Set + Advanced Bacteria Slide Set	Microbiology Teaching Slides	$3730.23

- Update instructional equipment to industry standards.

Anatomy models	Species and system specific teaching models	$2148.40

- AVMA requested additional educational instruction tools.

Skeleton preparations: Dog, cat, chicken, calf	Prepared skeletons	$3198.48

- Update instructional equipment to industry standards.

Fibrotic stereo-otoscope	Teaching instrument important in class room instruction	$8998.52

- Update instructional equipment to industry standards.

Teaching and diagnostic ophthalmic/otoscopic (3)	Teaching instrument important in class room instruction	$3016.32

- Update instructional equipment to industry standards.

Teaching and diagnostic clippers (2), Doppler/esophageal surgical heart monitor (2); Baines anesthesia bag (3)	Teaching instrument important in class room instruction	$2815.38

- Update instructional equipment to industry standards.

Horse handling equipment: (5) halters with leads, twitch (2), sidelines (2), hoof knives (4), hoof picks (5), hoof trimmers (2), equipment case	Teaching instrument important in class room instruction	$982.13

- Update instructional equipment to industry standards.

Critical Care Jerry (2)	Teaching instrument important in class room instruction	$2827.56

- Update instructional equipment to industry standards.

Tonopen-Vet	Teaching instrument important in class room instruction while assessing IOP	$1215.92

d. Facilities

- The leak in hallway roof and drainage in front and behind the facilities present a safety compliance issue during the rainy season. Estimated Cost: Unknown
- Non-GFI electrical outlets are present in close proximity to the sink used in dental instruction. This sink has been in place for decades and the electrical outlets in use represent an OSHA violation as well as a serious safety hazard. Estimated Cost: Unknown
- Leaking laboratory roof present a safety compliance issue during the rainy season and is slowly destroying laboratory equipment. Repair requests have been made consistently since before Building 800 remodel was completed in 2006. Estimated Cost: Unknown
- Drainage in front and behind the facilities (MESH Building walkways) presents a safety compliance issue during the rainy season. Estimated Cost: Unknown
- Ventilation and air quality in the kennel areas are insufficient. Estimated Cost: Unknown
- Laboratory countertops installed during the Building 800 remodel are of inferior material and require replacement. It is anticipated that the counters will need to be completely replaced in the near future. The countertops installed subsequent to the Building 800 remodel are of inferior material and started showing serious wear less than one year after installation. It is anticipated that the counters will need to be completely replaced in the near future. Estimated Cost: $ 10,000
- Custodial services are not performed adequately (due to decreased staffing) in order to prevent expensive equipment from being damaged by dust/dirt. Estimated Cost: Unknown
- The yard sprinkler maintenance and auto watering devices require updating and staff monitoring. Estimated Cost: none
- Improved plumbing and drainage of facility Estimated Cost: Unknown

5) What progress has been made on the recommendations from the last program review and/or annual update? Please specifically list and address all recommendations.

Recommendations from Last Program Review:

a. Curriculum and Program Direction

- Incorporated SLO on syllabus (course, program, and/or college); implementation time line 2011; completed December 2011

- Creation of a Veterinary Public Health and Food Safety Certificate of Training*: implementation time line 2011; completed fall 2011

- Expand current enrollment numbers of Certificate and A.S. Program; implementation time line 2011-2014; budgetary impact- positive revenue for the College; responsibility: Program Director; ongoing

Explore alternative ways to offer programs that will provide options for students; implementation time line 2011-2014; budgetary impact none; responsibility: Program Director; ongoing

Utilize existing data to determine departmental coursework selection by students; implementation time line 2011-2014; budgetary impact none; responsibility: Program Director; completed fall 2011

b. Staffing

- AVMA request: The re-classification of the Program RVT position more accurately to reflect industry knowledge, skills and abilities duties of the position. completed spring 2011
- AVMA request: The Program have additional RVT support to meet expanding needs. The Yuba College Veterinary Technology Program must have additional RVT support to meet expanding needs and improve academic success. The additional lab time will help students acquire needed skills and reduce the attrition rate. Request denied.
- AVMA request: The Program requires additional clerical and secretarial support. The Program has great need of clerical support. Although there is shared secretarial support, it is inadequate leaving many tasks to be completed by Program staff and the Director. This is an inefficient use of expertise and time which requires correction. Request denied
- AVMA request: The Program as an institutional member of the Association of Veterinary Technician Educators (AVTE) should avail itself of its considerable resources. Program personnel should be financially supported in attendance at AVTE symposia. In order to maintain currency in veterinary technology educational topics and methodology the AVMA has required that the Program Director and RVT attend the Association of Veterinary Technician Educators Conference held every other year. Request denied
- New faculty request has been made and denied 2006-2011. An additional full-time faculty person is needed to assist in teaching the courses offered on campus.

- Efforts continue to be made to improve program outcomes as assessed by graduate performance on the California RVT Examination and on the Veterinary Technician National Examination (VTNE). Ongoing
- Advisory Board request: Hire a FTE Student Instructional Assistant for academic success. Need for Veterinary Technology Peer Tutors – Peers are often more familiar with what a student does not know or why they do not know it because they are more closely tied to the learning process than the faculty. Request denied
- AVMA request: The Program Director requires sufficient time for the development and implementation of the curriculum changes and expansion. College reimbursement plans for a payment option for new course development has been denied when requested 2006-2011; cost to Yuba College: none.

c. Equipment

Create, fund and implement equipment maintenance schedule

- Update instructional equipment to industry standards: surgery table; purchase denied
- AVMA requested additional educational instruction tools: Disease Bacteria Slide Set + Fungi Slide Set + Advanced Bacteria Slide Set; purchase denied
- Industry standard dental equipment and table: purchase approved
- Venipuncture models and critical care manikins: purchase approved

d. Facilities

- Replace the counter tops in the classroom-- materials chosen where not appropriate so the countertops will need to be replaced again in the future. Request denied
- Additional office space made available to Veterinary Technology Program within MESH Division; request denied
- Improved accessibility of technology and physical facilities; implementation time line 2011; budgetary impact minimal; responsibility: Yuba College
- Repair of leaking laboratory roof to reduce safety compliance issues during the rainy season; Ongoing issue
- Improved drainage in front and behind the facilities (MESH Building walkways) to prevent slips and falls and improve safety compliance during the rainy season. Ongoing issue
- Improved custodial services to being performed adequately; implementation time line 2011; budgetary impact minimal; responsibility: Yuba College; Ongoing issue
- Improved yard sprinkler maintenance and auto watering devices and improved staff monitoring; implementation time line 2011; budgetary impact minimal; responsibility: Yuba College; Ongoing issue
- Improved plumbing and drainage of facility; Ongoing issue