Comprehensive Program Review Report

Program Review - Sports Medicine

Program Summary

**2019-2020**

**Prepared by:** Dennis Goebel

**What are the strengths of your area?:**
1. This year six students from the Sports Medicine program graduated with an A.S. degree in Sports Medicine. One student was accepted into Athletic Training program while the other five when into different disciplines of Sports Medicine at different universities.
2. Completed all Student Learning Outcomes assessments for academic courses in the Sports Medicine program; analysis was completed and 85% of students meet all SLO’s.
3. Sports medicine program continued to increase their partnership with Kaweah Delta Hospital with local medical personnel. More than 20 medical students (physicians) conducted per-season physicals for the 17 different sports this year.
4. The Sports medicine program continues to update the medical protocols for concussions, environmental conditions (bylaws), heat conditions and air quality that will be implemented used and followed for all student athletes who may need medical treatment.
5. The curriculum for the Sports Medicine Program was rewritten to meet the requirements of the four year universities for under graduates and will meet 13 of the 15 requirements for the Masters Entry Level Program for Athletic Training.

**What improvements are needed?:** An ongoing request to have the Sports Medicine budget augmented in order to provide

- Equipment Calibration, Concussion Evaluation/Management/Treatment, and Electronic Medical Recording System for the health care of student athletes required by Federal Drug Administration (FDA), California Community College Athletic Association (CCCAA) and Health Insurance Portability and Accountability Act (HIPAA).

- Equipment repair/calibration (Therapeutic Modalities - Ultrasound, EGS, Lasers, Etc.) per industry standards - $1500.00

  Required by the FDA’s 21 CFR Parts 11 and 820, Quality System Regulation (QSR) and ISO 13485.

  Calibration of a device is carried out to minimize the uncertainty in measurements. It helps in reducing the errors and brings the measurement to an acceptable level. With repeated use and over a period of time, all equipment tends to degrade and that affects its accuracy and precision. In the medical device industry, a drift in the measurement is unacceptable. Regular maintenance and service are needed for an instrument to work accurately and at its optimum.

  For medical device manufacturers as well as health professionals, the health and safety of patients remain their top priority. Therefore, the precision and accuracy of a device is of utmost importance. To safeguard the interest of the users and to ensure that public health and safety isn’t compromised, the medical device industry is regulated by strict standards, including FDA’s 21 CFR Parts 11 and 820, Quality System Regulation (QSR) and ISO 13485.

- B) Concussion evaluation/management/treatment - ImPACT Program - $1000.00

  Required by California Community College Athletic Association - By Law 9.6.1 - Concussion Management
ImPACT, an FDA cleared medical device, is used by healthcare, educational, and sports organizations to help assess and manage concussions. Baseline and Post Injury Testing

Baseline testing is a pre-season exam conducted by a trained health care professional. Baseline tests are used to assess an athlete’s balance and brain function (including learning and memory skills, ability to pay attention or concentrate, and how quickly he or she thinks and solve problems), as well as for the presence of any concussion symptoms. Results from baseline tests (or pre-injury tests) can be used and compared to a similar exam conducted by a health care professional during the season if an athlete has a suspected concussion.

Baseline testing generally takes place during the pre-season—ideally prior to the first practice.

Baseline testing should include a check for concussion symptoms, as well as balance and cognitive (such as concentration and memory) assessments. Computerized or paper-pencil neuropsychological tests may be included as a piece of an overall baseline test to assess an athlete's concentration, memory, and reaction time.

During the baseline pre-season test, health care professionals should also assess for a prior history of concussion (including symptoms experienced and length of recovery from the injury). It is also important to record other medical conditions that could impact recovery after concussion, such as a history of migraines, depression, mood disorders, or anxiety, as well as learning disabilities and Attention Deficit/Hyperactivity Disorder.

Baseline testing also provides an important opportunity to educate athletes and others about concussion and return to school and play protocols.

Until athletes successfully pass all aspects of the ImPact test, they are not sent back to the doctor, which is a cost savings to the District.

C) Electronic Medical Recording System per industry standards - Athletic Trainer System (ATS) - $1000.00

The Sports Medicine program needs to update its Electric Health Record system to stay in compliance with Health Insurance Portability and Accountability Act (HIPAA) and Family Educational Right and Privacy Act (FERPA). This program would require

a) This program would include Pre-Participation Physicals, Medical History of the Student-Athlete, Treatment Records, Injury Evaluation/Reports and all medical forms for athletic participation, which may be required.

Describe any external opportunities or challenges: 1. The only aspect that may need to be addressed is funding. If the State Chancellor Office does not approve the New Sports Medicine Degree, VETA funding will no longer be available. This means a loss of $5000-10,000 per year to the Sports Medicine Program. This money was used for instructional materials, supplies and equipment that were utilized in the Athletic Training Clinic.


Changes Based on SLO Achievement: No changes in the courses outcomes were indicated due to high percentage of student success. See attached document - Program Review Data Template - file:///C:/Users/dennisg/Downloads/Assessment_%20Course%20Four%20Column%202018-19.pdf

Overall PLO Achievement: Sports Medicine program overall achievement were met with an 85% success rate. See attached document - Program Review Data Template - file:///C:/Users/dennisg/Downloads/SMED%20-%202019%20Program%20Review%20Data%20(1).pdf

Changes Based on PLO Achievement: No changes in the program or course outcomes were indicated due to high percentage of student success. See attached document - Program Review Data Template - file:///C:/Users/dennisg/Downloads/SMED%20-%202019%20Program%20Review%20Data%20(1).pdf

Outcome cycle evaluation: Sports Medicine program courses are evaluated each semester in order to meet industry standards for employment and transfer requirements. The Sports Medicine Program is committed to assessing each semester in order to ensure that students are learning the most current techniques as well as utilizing strategies that lead to student success. There is effective participation with other Certified Athletic Trainers with the courses assessments. Program assessment is completed in cooperation with the Sports Medicine Advisory committee.
Action: 2018-19 Improve Student Athlete Safety - 1.5 Athletic Trainer Position

Provide safe and current athletic training coverage for all traditional and non-traditional sports, which is mandated by the California Community College Athletic Association, California Athletic Trainers Association and the National Athletic Trainers Association.

Leave Blank: Required Safety Issue/Correction
Implementation Timeline: 2019 - 2020
Leave Blank: Leave Blank:

Identify related course/program outcomes:

1. As stated in the previous Sports Medicine Program Review, the National Athletic Trainers Association and the Board of Certification indicated a change for a B.A. degree in Athletic Training to an Entry Level Master’s Program. This change was to take place in the fall of 2020. To our surprise, all California State Universities offering a B.A. degree in Athletic Training took their last cohort in the spring of 2018. This means the College of the Sequoias (COS) A.S. degree in Sports Medicine no longer transfers to the four-year Athletic Training programs. Without a transfer program, 11 of the 13 courses in the A.S. degree no longer are valid. Without the courses, students no longer have the opportunity of experience a “pathway” within the field of Sports Medicine. This means student are no longer assisting the Certified Athletic Trainers in the health care of the student-athlete; this is the rationale for needing an additional 1.5 Classified Certified Athletic Trainer.

As required by the state challengers office, all degrees (programs) and it's courses are mandated to be evaluated every two years. This ensures that all courses offered meet the transfer requirements. At this time, only two of the current courses will continue to be offered. Without the additional courses there will be a major impact on the “work load” for the Certified Athletic Trainers will be extremely difficult manage. An example of this would be Base Line Concussion testing. Each year over 400 student athletes are given 4 different assessments, which takes 1.25 hours per person. Current there are 3 Certified Athletic Trainers and 30 Athletic Training Students do this assessment which takes a total of 15 hours. Without the Athletic Training Students, the total amount of time would be 166 hours. Another aspect that will be affected without the Athletic Training Students is game management. Additional time would be needed for “set up” for each event. This additional time would translate into extra hours required for the certified athletic trainer. All hours after a 40-hour workweek would the means compensation for the Certified Athletic Trainer would have to be done.

The last aspect that needs to be addressed is funding. Without a degree in Sports Medicine, VETA funding will no longer be availability. This means a loss of $6000 per year to the Sports Medicine Program. This money was used for instructional materials, supplies and equipment that were utilized in the Athletic Training Clinic.

2. Complying with the California Community College Athletic Association, California Athletic Trainers Association and the National Athletic Trainers Association regarding the Certified Athletic Trainer would be difficult to meet with the current 2 Classified Athletic Trainers. Ensure safe environment for student-athletes at all COS practices and competitions by providing Certified Athletic Trainer coverage. Currently the staff of 2.0 Certified Athletic Trainers is providing the coverage for the number of events, which require 3.89 Certified Athletic Trainers according to the national Athletic Trainers Association. In anticipation of the loss of The Sports medicine degree (Student Athletic Trainers), additional intercollegiate sport(s), increase number of non-traditional completions, and/or the possibility of moving practices and competitions to the Hanford or Tulare campus(s) or expanding the hours required to cover events an additional 1.89 Certified Athletic Trainers are needed. See Documents

Person(s) Responsible (Name and Position): Dennis Goebel
Rationale (With supporting data): Mandate is from California Community Colleges Athletic Association bylaws 3.5 and 9.2.2. Also Recommendations and Guidelines for Appropriate Medical Coverage of Intercollegiate Athletics by the National Athletic Trainers Association - A total of 3.99 athletic trainers are necessary for proper medical coverage for traditional and non-traditional sports. The California Athletic Trainers Association also mandates a Certified Athletic Trainer supervise and provide medical care to all athletic events. See Program Review documents 2014-2015.

Currently the COS Athletic program is provided Certified Athletic Training services with 2.0 ATC with an additional volunteer hours provided by the Sports Medicine Program Director/faculty, who is also an ATC. In order to meet the standards of the National Athletic Trainers Association, the COS Athletic program should be staffed with 3.89 ATC. See Documentation.
Priority: High
Safety Issue: Yes
External Mandate: Yes
Program Review - Sports Medicine

Safety/Mandate Explanation: Please refer to the documents for Program Review 2014-2015 and COS CCCATA-AMCIA Calculators- 2016

Update on Action

<table>
<thead>
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<th>Updates</th>
<th>07/15/2019</th>
</tr>
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<tr>
<td><strong>Update Year:</strong> 2019 - 2020</td>
<td></td>
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<tr>
<td><strong>Status:</strong> Action Completed</td>
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<td>A 1.0 Certified Athletic trainer was hired.</td>
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<td><strong>Impact on District Objectives/Unit Outcomes (Not Required):</strong></td>
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Resources Description

Personnel - Classified/Confidential - 1. As stated in the previous Sports Medicine Program Review, the National Athletic Trainers Association and the Board of Certification indicated a change for a B.A. degree in Athletic Training to an Entry Level Master’s Program. This change was to take place in the fall of 2020. To our surprise, all California State Universities offering a B.A. degree in Athletic Training took their last cohort in the spring of 2018. This means the College of the Sequoias (COS) A.S. degree in Sports Medicine no longer transfers to the four-year Athletic Training programs. Without a transfer program, 11 of the 13 courses in the A.S. degree no longer are valid. Without the courses, students no longer have the opportunity of experience a “pathway” within the field of Sports Medicine. This means student are no longer assisting the Certified Athletic Trainers in the health care of the student-athlete; this is the rationale for needing an additional 1.5 Classified Certified Athletic Trainer.

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Why is this resource required for this action?: Student Safety

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 108269

Link Actions to District Objectives
## Program Review - Sports Medicine

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### Action: 2019-20 Student Athletes Safety

An on going request to have the Sports Medicine budget augmented in order to provide Equipment Calibration, Concussion Evaluation/Management/Treatment, and Electronic Medical Recording System for the health care of student athletes required by Federal Drug Administration (FDA), California Community College Athletic Association (CCCAA) and Health Insurance Portability and Accountability Act (HIPAA).

**Leave Blank:**

**Implementation Timeline:** 2019 - 2020

**Leave Blank:**

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**Identify related course/program outcomes:** Meeting the Requirements for Transfer  
Meeting Industry Standards

**Person(s) Responsible (Name and Position):** Dennis Goebel - Professor/Athletic Trainer - Sports Medicine

**Rationale (With supporting data):**

A) Equipment repair/calibration (Therapeutic Modalities - Ultrasound, EGS, Lasers, Etc.) per industry standards - $1500.00

- Required by the FDA’s 21 CFR Parts 11 and 820, Quality System Regulation (QSR) and ISO 13485.

- Calibration of a device is carried out to minimize the uncertainty in measurements. It helps in reducing the errors and brings the measurement to an acceptable level. With repeated use and over a period of time, all equipment tends to degrade and that affects its accuracy and precision. In the medical device industry, a drift in the measurement is unacceptable. Regular maintenance and service are needed for an instrument to work accurately and at its optimum.

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B) Concussion evaluation/management/treatment - ImPACT Program - $1000.00

- Required by California Community College Athletic Association - By Law 9.6.1 - Concussion Management

- ImPACT, an FDA cleared medical device, is used by healthcare, educational, and sports organizations to help assess and manage concussions. Baseline and Post Injury Testing

- Baseline testing is a pre-season exam conducted by a trained health care professional. Baseline tests are used to assess an athlete’s balance and brain function (including learning and memory skills, ability to pay attention or concentrate, and how quickly he or she thinks and solve problems), as well as for the presence of any concussion symptoms. Results from baseline tests (or pre-injury tests) can be used and compared to a similar exam conducted by a health care professional during the season if an athlete has a suspected concussion.

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C) Electronic Medical Recording System per industry standards - Athletic Trainer System (ATS) - $1000.00

The Sports Medicine program needs to update its Electric Health Record system to stay in complaints’ with Health Insurance Portability and Accountability Act (HIPAA) and Family Educational Right and Privacy Act (FERPA). This program would require

- This program would include Pre-Participation Physicals, Medical History of the Student-Athlete, Treatment Records, Injury Assessment Evaluations/Reports and all medical forms for athletic participation, which may be required.

Total request $3500.00 to be added to Sports Medicine budget.

**Priority:** High

**Safety Issue:** Yes

**External Mandate:** Yes

**Safety/Mandate Explanation:**
1. Guide to FDA Requirements and Importance of Medical Device Calibration - https://www.medicaldesignbriefs.com/component/content/article/mdb/tech-briefs/29754
2. California Community College Athletic Association - By Law 9.6.1 and Center for Disease Control and Prevention - https://www.cdc.gov/headsup/basics/baseline_testing.html
3. Health Insurance Portability and Accountability Act (HIPAA) and Family Educational Right and Privacy Act (FERPA) -

Update on Action

**Update Year:** 2019 - 2020

**Status:** Continue Action Next Year

Additional funding is needed for yearly renewal for electronic medical record keeping - cost is $1000.00 per year.

Additional funding is needed for yearly renewal for concussion base line and testing for student athletes who have experience head trauma (concussions).

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

**Resources Description**

**Adjustment to Base Budget** - Without a degree in Sports Medicine, VETA funding will no longer be availability. This means a loss of $5-7,000 per year to the Sports Medicine Program. This money was used for instructional materials, supplies and equipment that were utilized in the Athletic Training Clinic. $5-7,000.00

Allows the Sports Medicine to update its Electric Health Record system to stay in complaints’ with Health Insurance Portability and Accountability Act (HIPAA) and Family Educational Right and Privacy Act (FERPA). One Time Cost $995.00 -
Program Review - Sports Medicine

Annual Cost $640.00 - Total First Year $1,635.00 (Active)
Why is this resource required for this action?: Student Safety
Student Privacy
Notes (optional):
Cost of Request (Nothing will be funded over the amount listed.): 8635

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Action: Student Athlete Safety

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Leave Blank:
Implementation Timeline: 2019 - 2020
Leave Blank:
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Identify related course/program outcomes: Sports Medicine - Program Learning Outcome #3
Person(s) Responsible (Name and Position): Dennis Goebel
Rationale (With supporting data): Equipment calibration (Therapeutic Modalities - Ultrasound, EGS, Lasers, Etc.) per industry standards - $1500.00

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Program Review - Sports Medicine

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**Priority:** High
**Safety Issue:** Yes
**External Mandate:** Yes

**Safety/Mandate Explanation:** Required by the FDA’s 21 CFR Parts 11 and 820, Quality System Regulation (QSR) and ISO 13485.
Required by California Community College Athletic Association - By Law 9.6.1 - Concussion Management
Compliant with Health Insurance Portability and Accountability Act (HIPAA) and Family Educational Right and Privacy Act (FERPA)

**Resources Description**

**Adjustment to Base Budget** - An ongoing request to have the Sports Medicine budget augmented in order to provide Equipment Calibration, Concussion Evaluation/Management/Treatment, and Electronic Medical Recording System for the health care of student athletes required by Federal Drug Administration (FDA), California Community College Athletic Association (CCCAA) and Health Insurance Portability and Accountability Act (HIPAA). (Active)

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Cost of Request (Nothing will be funded over the amount listed.): 3500

This program would include Pre-Participation Physicals, Medical History of the Student-Athlete, Treatment Records, Injury Assessment Evaluations/Reports and all medical forms for athletic participation, which may be required.

Notes (optional):

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