Comprehensive Program Review Report

Program Review - Sports Medicine

Prepared by: Dennis Goebel

What are the strengths of your area?:

1. This year eight students from the Sports Medicine Program graduated with an A.S degree in Sports Medicine and were accepted into Athletic Training Programs at year universities.

2. The Sports Medicine program increased their partnership with the Career Technical Education (CTE) program to establish and improve pathway for students interested in the field of Sports Medicine.

3. Completed all SLO assessments for academic courses in Sports Medicine program; analysis was completed and 80%+ of students meet all SLO’s; (see 4 column SLO report in documents).

4. Sports medicine program continued to increase their partnership with local medical personnel. An effort was given to increase the number of physician assistants. This number was increased from 1 to 6 physician assistants which will be a great benefit to the care of the student-athlete.

5. The Sports Medicine program continues to update its Concussion Protocol that will be implemented used and followed for all student athletes who suffer from head trauma.

6. The Sports Medicine program staff have partnered with Visalia Unified School District (El Diamante High School) and their new “STRONG” program as members of the advisory committee. The purpose of this program is to establish pathways for high school student who are interested in the different disciplines of sports medicine.

7. Incorporate different types of technology in all Sports Medicine 40 courses and saw an increase in student success for 66% to 73%.

What improvements are needed?:

1. To assist students in selecting a curriculum pathway in Athletic Training that includes Physics, as it is a new requirement for entrance into Athletic Training programs at the university level.

2. Prepare students in the sports medicine program to assist with the health care of COS student athletes participating in fall sports; the supervision of these students will be provided by Sports Medicine faculty member with 20% release time for the fall semester to comply with mandates for student and athlete safety.

3. Ensure safe environment for students athletes at all COS practices and competitions by providing certified Athletic Trainer coverage. Currently the staff of 1.5 Athletic Trainers is providing the coverage for the number of events which require 3.89 Athletic Trainers according the National Athletic Trainers Association. In anticipation of the addition of intercollegiate sport(s) and/or the possibility of moving practices and competitions to the Hanford or Tulare campus(s) (or expanding the hours required to cover practice and competitions), an additional Certified Athletic Training staff is needed.

Describe any external opportunities or challenges.: 

1. Accurate information from the four year colleges/universities are up-to-date regarding the different Sports Medicine pathways as Athletic Training major moves from a BA/BS degree to a Entry Level Master’s degree.

2. Complying with California Community College Athletic Association, California Athletic Trainers Association and the National Athletic Trainers Association regarding the certified athletic trainer. See Documents
**Overall SLO Achievement:**

SMED 40 – Intro to Sports Injuries
Biomechanical Forces - Outcome #1 - The students will be able to select, compare and evaluate the various biomechanical forces which cause a given injury.

SMED 40 had 1 section with 33 students during this SLO assessment. Quiz #1 was held on 2/5/2016 with the following results: A-2=6.89%, B-12=37.93%, C-8=27.58%, D-4=13.79%, F-4=13.79%. 21 of the 29 (72.41%) students met the SLO goal of 70% or higher. Note 4 students did not take the quiz.

Analysis - Academic intensity was emphasized to the students regarding this transferable course. This included taking notes during lecture and reading the text before each quiz. Students who did not attend class on regular bases did not perform well in this quiz. This was reflected in the students who received D’s and F’s.

SMED 60 – Concepts in Health & Fitness
Health Components - Outcome #1 - Students will be able to identify, explain, and develop different health components of a fitness program.

SMED 60 had 1 section with 25 students during this SLO assessment. Quiz #1 was held on 2/4/2016 with the following results: A-7=28.00%, B-11=44.00%, C-3=12.00%, D-3=12.00%, F-1=4.00%. 21of the 25 (84.00%) students met the SLO.

Analysis - Students who did not attend class on regular bases did not perform well on this quiz. This was reflected in the students who received D’s and F’s.

SMED 153 – Upper Extremities Assessment
Anatomical Structures - Outcome #1 - Students will be able to identify, locate, and test specific anatomical structures to the upper extremities.

SMED 153 had 2 sections with 25 students during this SLO assessment. The mid-term was held on 3/14/2016 with the following results: A-18=72.00%, B-2=8.00%, C-4=16.00%, D-1=4.00%, F-0=00.00%. 24 of the 25 (96.0%) for the students met the SLO.

Analysis - The one student who did not pass the SLO was not involved in the Sports Medicine Program. The application of the course content within the clinical setting enhanced the students test scores because of the number of hours the student spends in the clinical setting.

SMED 182 – Athletic Training Clinic 2
Concussion Assessment – Outcome #1 - The students will be able to explain, describe and demonstrate the proper protocol for a head trauma assessment (concussion).

SMED 182 had 1 section with 25 students during this SLO assessment. The mid-term was held during the week of 3/21/2016 with the following results: A-16=64.00%, B-5=20.00%, C-0=00.00%, D-2=8.00%, F-2=8.00%. 21 of the 25 (84.00%) for the students met the SLO.

Analysis - Students who have an opportunity to take lecture content into a lab/clinical setting and apply the material on a weekly/regular basic do very well during the practical/skill examination.

See attached document - 2016 Overall SLO’s Achievement - All Courses and SLO’s)

**Changes Based on SLO Achievement:** No changes in the course outcomes were indicated due to high percentage of student success. See attached document - 2016 Overall SLO Achievement - Courses and SLO’s

**Overall PLO Achievement:** Sports medicine program overall achievement was met with a 91.30% success rate. See attached documents- Success Retention 2014/15. The core courses, SMED 40 and SMED 60 have open enrollment and therefore student success rates are slightly lower. However; with the increased use of technology in all sports medicine courses, SMED 40 had an increase of 7% over last year’s success and SMED 60 up 14%. The instructor stresses the academic rigor necessary to enter any field of Sports medicine. The courses SMED 152, 154,183, 184 and all Work Experience courses have a much higher student success rate than SMED 40 and 60. SLO assessments were completed for all 16 Sports medicine courses (8 each semester). Assessment data indicates that the SLO’s in each SMED courses are measuring student learning outcome goals were met for each course.

**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 - Success Retention 2014/15

**Outcome cycle evaluation:** Sports Medicine Program courses are evaluated each semester in order to meet industry standards.

The Sports Medicine Director will provide one on one career mentoring to assist students in developing a career pathway that leads to employment in the different fields of Sports Medicine, such as Athletic Training, Physical Therapy, Kinesiology, Exercise Physiology, Sport Psychology, and Sports Nutrition. This includes a pre-entry interview as well as ongoing personal evaluations of student education plan. The Sports Medicine Director will consult with the Academic Counselors to ensure specific career pathway requirements are met.

Status: Continued Action
Implementation Timeline: 2016 - 2017
Start Date: 08/01/2014
Completion Date: 05/31/2017

Identify related course/program outcomes: The career mentoring is a necessary step to help students connect what they are learning to actual employment opportunities. This strategy will support all Program Learning Outcomes where students will evaluate and plan 1) performance enhancement, 2) anatomical systems and 3) injury care.

Person(s) Responsible (Name and Position): Dennis Goebel

Rationale (With supporting data):
1. Students need help from faculty who are aware of current transfer requirements as well as employment trends.
2. Students interested in pursuing a doctorate in Physical Therapy need a very specific educational plan as well as the opportunity to obtain clinical observation hours.
3. Students interested in pursuing Master’s degree in Athletic Training also need letters of recommendation as well as specific experiences in a variety of athletic venues.
4. This type of mentoring is necessary to help students bridge from the educational environment to employment opportunities.

Priority: High
Safety Issue: No
External Mandate: No

Implementation Timeline: 2016 - 2017
Start Date: 08/01/2014
Completion Date: 05/31/2017

Status: Continued Action

Update on Action

Updates
Update Year: 2015 - 2016
Completed: Yes

A mapping for all courses that are part of the Sports Medicine Program was developed. Each course was matriculated with four year college and universities who offer a degree in Athletic Training. This included the Major Core Requirements, Major Elective Requirements and Other College Requirements for each institution. This mapping included California State Universities, California Private Colleges/Universities and popular Out-of-State Colleges (See Document 2016 Matriculation Sports Medicine Program).

Impact on District Objectives/Unit Outcomes: District Objectives 2.1 - Increase the number of students who are transfer-prepared annually.
District Objectives 2.2 - Increase the number of students who earn an associate degree or certificate annually.

Resources Description

No additional resources required due to use of Sports Medicine Program Director/Faculty member (Active)

Link Actions to District Objectives

District Objectives: 2013-2015

2013-2015: District Objective #1 - District Objective #1 for 2013-2015: Provide effective academic support services as measured by an increase in the rate at which students successfully complete courses.
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**2013-2015: District Objective #2** - District Objective #2 for 2013-2015: Increase the percentage of faculty who use the Early Alert System to provide feedback on student progress

**2013-2015: District Objective #3** - District Objective #3 for 2013-2015: Provide a level of counseling and library services for all district students that is equitable across the sites and instructional delivery modalities.

**2013-2015: District Objective #4** - District Objective #4 for 2013-2015: Pilot a program of deliberate counseling in which counselors and basic skills faculty collaborate to: individually contact all first-time students who declare an intent to complete the requirements for an associate degree, certificate, or transfer and who also placed into basic skills English or mathematics for the purpose of ensuring that this cohort of students complete their SEP in the first semester.

District Objectives: 2015-2018

**District Objectives** - 2.1 - Increase the number of students who are transfer-prepared annually.

**District Objectives** - 2.2 - Increase the number of students who earn an associate degree or certificate annually.

**District Objectives** - 3.1 - Reduce the achievement gap of disproportionately impacted student groups annually, as identified in the Student Equity Plan.

**Action: 2015-2016 Improve Student Athlete Safety**

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.

**Status:** Continued Action

**Implementation Timeline:** 2016 - 2017

**Start Date:** 08/17/2015

**Completion Date:** 05/31/2017

**Identify related course/program outcomes:** Safe athletic training coverage requires one of the following options:

1. 20% release time for Sports Medicine Program Director/Faculty member, who is an ATC, to provide coverage in fall and spring semesters.

   OR

   2. Hire a full time athletic trainer to cover fall and spring sports.

The additional athletic trainer would allow the current Sports Medicine Director/faculty to have time allotted to teach students on the field in order to meet the program outcome that students will explain, interpret, and relate anatomical, physiological, and biomechanical systems to sport and physical activities. Additionally, Sports Medicine Director/faculty needs to utilize on the field training experiences to allow students to meet the other program learning outcomes through SMED 181, 182, 183, 184, Wrk Exp SMED 193, Wrk Exp SMED 194, Wrk Exp SMED 195, Wrk Exp SEMD 196 (Program Outcome Injury Care), which is that students will plan, implement, and assess appropriate injury care and management procedures.

**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 1.5 ATC with an additional 700 hours of 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

**Mandate Explanation:** Please refer to the documents for Program Review 2014-2015
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**Update on Action**

**Updates**

**Update Year:** 2015 - 2016

**Completed:** No

A part time Certified Athletic trainer was hired, but a full time position had been requested. This hire has helped ease some of work load of the Sports Medicine Staff but has not addressed the time (hours worked) required by the Athletic Department for this position. The Athletic Training program is currently supported by volunteer hours from students in the SMED courses and the faculty member teaching those courses. This ongoing volunteer use of students is not sustainable. A full time athletic trainer is needed to ensure that all COS Athletic programs are covered by a skilled trainer.

Currently, the Sports Medicine Program Director/faculty member volunteers his time and that of the students in courses, SMED 181, 182, 183,184 and through Sports Medicine Work Experience.

Therefore, in order to cover all COS Athletics with a certified Athletic Trainer, the college needs 3.89 Athletic Trainers according to the formula used by the National Athletic Trainers Association. Currently COS has 1.5 Athletic Trainers on staff. (Lisa Lorenzi, ATC - 1.0; Stefany Anserlian, ATC - .5)

Refer to ongoing Action for 2016-2017 for evidence.

**Impact on District Objectives/Unit Outcomes:** District Objectives 2.1 - Increase the number of students who are transfer-prepared annually.
District Objectives 4.2 - Improve the efficiency, effectiveness and communication of human, physical, technological, and financial resources to advance the District Mission.

**Resources Description**

**Classified- New/Replacement - Part Time Certified Athletic Trainer (Active)**

**Why is this resource required for this action?:** In order to provide safe and effective collegiate athletic sports program for all traditional and non-traditional sports, at additional sites and the addition of new sports.

**Notes (optional):** Salary - Benefits

**Cost Estimate:** 35000

**Classified- New/Replacement - Full time Athletic Trainer; or 20% release time for Sports Medicine Faculty  (Active)**

**Why is this resource required for this action?:** In order to meet safety standards for collegiate athletic guidelines.

**Cost Estimate:** 50000

**Link Actions to District Objectives**

**District Objectives:** 2015-2018

**District Objectives - 3.2 - Increase training for academic and student services staff and faculty to respond to the unique needs of our student population.**

**District Objectives - 4.1 - Improve operational systems based upon data driven decision-making as described in the COS 2.0 manuals.**

**District Objectives - 4.2 - Improve the efficiency, effectiveness and communication of human, physical, technological, and financial resources to advance the District Mission.**

**Action: 2015-2016 Increase Success Rates for SMED 40**

Sports Medicine Director will work with the Academic Counseling/Matriculation Personnel, Financial Aid, and Research Analyst to collect and evaluate data that would indicate a direct relationship between students who stop attending courses and the final date for financial assistance. This data would then be compared to success rates for all courses the student was enrolled in. The main
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The focus would be to increase the success rate from 66% to that of other Sports Medicine courses which are in the 90+ percentile.

**Status:** New Action

**Implementation Timeline:** 2015 - 2016

**Start Date:** 08/17/2015

**Completion Date:** 05/31/2016

**Identify related course/program outcomes:** The success rate in any course is a necessary step to help connect with the content from one course to another. This connecting of content will allow the student to relate and/or build upon the educational pathway they have selected.

**Person(s) Responsible (Name and Position):** Dennis Goebel

**Rationale (With supporting data):**

1. Explore different ways to help retain students in the course for the entire semester.

2. Success in any course is necessary to help students bridge the education environment to transfer to four year institutions and/or employment opportunities

**Priority:**

**Safety Issue:** No

**External Mandate:** No

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**Update on Action**

**Updates**

**Update Year:** 2015 - 2016

**Completed:** Yes

The following is concluded from the data gathered from the Fall 2014 and Spring of 2015 semesters involving the SMED 40 (Introduction to Sports Injuries) and SMED 60 (Concepts of Fitness) courses.

- Only students who failed the course(s) were involved in this study.
- Students who received some form of financial aid were identified.
  - 20 out of the 30 (66.67%) student received some form of financial aid. (See Document 2016 Success - Financial Aid-1 and 2016 Success - Financial Aid-2).
- When did the student stop participation (attending class) vs. the last date of disbursement was reviewed.
  - 20 out of 20 (100.00%) of the student stopped attending class after they received the last form of aid. (See Document 2016 Success - Financial Aid-1 and 2016 Success - Financial Aid-2).
- Composite of the data for each semester, course and number of students who failed.

<table>
<thead>
<tr>
<th>Semester</th>
<th>SMED 40</th>
<th>SMED 60</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2014</td>
<td>5/6 = 83.33%</td>
<td>2/3 = 66.67%</td>
<td>7/9 = 77.77%</td>
</tr>
<tr>
<td>Spring 2015</td>
<td>3/5 = 60.00%</td>
<td>0/0 = 00.00%</td>
<td>3/5 = 60.00%</td>
</tr>
<tr>
<td>Fall 2015</td>
<td>7/8 = 87.50%</td>
<td>3/3 = 100.00%</td>
<td>10/11 = 90.90%</td>
</tr>
<tr>
<td>Spring 2016</td>
<td>1/5 = 20.00%</td>
<td>1/2 = 50.00%</td>
<td>2/7 = 28.57%</td>
</tr>
<tr>
<td>Totals</td>
<td>16/24 = 66.67%</td>
<td>6/8 = 75.00%</td>
<td>22/30 = 68.75%</td>
</tr>
</tbody>
</table>

See document - 2016 Success - Financial Aid

**Impact on District Objectives/Unit Outcomes:** There is a correlation between students participating (attending class) and the last disbursement of financial aid.

- Students on financial aid had a direct impact on student success rate for the Sports Medicine courses as well as other courses across campus.
- As the data points out, the success rate for all courses involving these students should be recalculated to represent the actual data for each course.
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**Link Actions to District Objectives**

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<td><strong>District Objectives</strong> - 2.4 - Increase Career Technical Education course success rates and program completion annually.</td>
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