

## **Laptops for teaching in alternative settings such as the gym or outdoors, video editing, and group presentations**

### **Rational:**

Practicum teaching experiences and career teaching in the discipline of physical education are done mostly in alternative classroom settings such as a gym or an outdoor area where technology is rarely available and yet desperately needed. Even desktop computers are not available in most alternative settings where physical education teachers teach. Additionally, students work collaboratively to design presentations on various curriculum models and semester long curriculum and assessment plans. These presentations may now be made in an alternative setting where physical educators typically teach with each student group having their own laptop for preliminary preparations and presentations and a projector to show those presentations. Students also make presentations at professional conferences and will have a computer and projector available to make those presentations.

Students also video record their practicum teaching experiences for review and reflection. This raw video data is then edited to define various demonstrated teaching skills suggested by the National Standards for Initial Physical Education Teacher Education (2008). These video segments are preserved and displayed in each student's personal portfolio for presentation for program exit and to future employers. The laptops will provide an editing location for students to prepare and present their personal portfolios for the program exit experience and for presentation to future employers.

The National Standards for Initial Physical Education Teacher Education (2008) established by the National Association for Sport and Physical Education [NASPE] provide six standards with various elements under each standard regarded as required skills necessary for students graduating in the field of physical education. Our goal is to prepare our physical education students with the up to date skills needed to compete for jobs in the educational setting. The standards and elements of student learning that will be facilitated through this project are listed below.

### **Standard 3: Planning and Implementation**

Physical education teacher candidates plan and implement developmentally appropriate learning experiences aligned with local, state and national standards to address the diverse needs of all students. Elements – Teacher candidates will:

- 3.7 Demonstrate knowledge of current technology by planning and implementing learning experiences that require students to appropriately use technology to meet lesson objectives.

### **Standard 4: Instructional Delivery and Management**

Physical education teacher candidates use effective communication and pedagogical skills and strategies to enhance student engagement and learning.

Elements – Teacher candidates will:

- 4.1 Demonstrate effective verbal and non-verbal communication skills across a variety of instructional formats.
- 4.2 Implement effective demonstrations to link physical activity concepts to appropriate learning experiences.

### **Standard 6: Professionalism**

Physical education teacher candidates demonstrate dispositions essential to becoming effective professionals.

Elements – Teacher candidates will:

- 6.2 Participate in activities that enhance collaboration and lead to professional growth and development.

## **Laptops for teaching, video editing, group presentations and teaching in alternative teaching settings such as the gym or outdoors**

**Depth of Impact:** This project will:

- Provide WSU students the opportunity to learn about and have access to latest technology available and currently in use in K-12 school settings that will be expected as graduates of a quality program.
- Provide WSU students opportunities to work in a small group setting to prepare curriculum and assessment materials and professional presentations.
- Provide WSU students the opportunity to use current technology, laptops and projectors, for practicum teaching experiences in the gym as will be required as a K-12 teacher.
- Provide WSU students the opportunity to use a laptop and projector for presentations at professional conferences and professional development venues.
- Enable WSU students to edit video recordings of their teaching experiences to select defined teaching skills to display in their personal portfolios
- Enhance the learning environment through technologically based engagement.
- Encourage collaboration between students, instructors and other professionals.
- Provide real life experiential learning that will prepare for future career possibilities.

**Breadth of Impact:** This project will:

- Provide up to date learning in physical education teacher education for students registered in the PEP 3520 Curriculum and Assessment class and PEP 3520L Curriculum and Assessment Lab and PEP 4990 Senior Seminar as well as other methods of teaching classes in the physical education program. There are typically 20-30 students in the 3520 course each year, 20-30 students in the Lab and 20-30 students in the 4990 course each year.
- Sustain itself for 5 years of use. After the initial 5 years I will re-evaluate the current technology use in the K-12 school setting and write for further funding if needed. Increasing student fees to cover replacement would be an unjustifiable cost for students.

**Measurement:** This project will:

- Enable WSU students to demonstrate their ability to show K-12 students how to use current technology to meet lesson objectives. This will be evident in the practicum teaching experiences and lesson plans.
- Provide a laptop for group use in preparing curriculum and assessment materials and making teaching presentations in alternative classroom settings and at professional conferences.
- Provide a video editing location for students to edit teaching videos and prepare their personal portfolios using the most current technology.
- Provide collaborative experiences with their peers, the K-12 cooperating teachers and other professionals at professional conferences.
- Provide evidence of student achievement of NASPE elements 3.7; 4.1, 2; 6.2 as described above and in the Detailed Assessment Plan and all other NASPE standards displayed in their personal portfolios.

## **Laptops for teaching in alternative settings such as the gym or outdoors, video editing, and group presentations**

**Accountability:** This project will:

- Begin Fall semester 2014 after the purchase of the latest MacBook Air Laptop available at that time.
- Allow the purchase of five 256GB 11 inch MacBook Air laptop computers at \$1199.00 each with SmartShell protective case at \$49.99 each and a protective sleeve at \$19.99 each.
- Allow the purchase of a Port to DVI Adapter at \$24.99.
- Allow the purchase of an Epson PowerLite 96W Multimedia Projector at \$749.95.
- Allow the purchase of a Kensington Wireless presenter at \$49.95.
- Provide students opportunities and the means to accomplish group assignments related to semester long curriculum and assessment development, curriculum model presentations and professional presentations.
- Provide students presentation projectors to use in alternative teaching settings like the gym and at professional conferences.
- Provide a video editing location for preparing their personal portfolios including video evidence of accomplishment of various NASPE Standards for Initial Physical Education Teachers.
- Provide a research venue on using technology in the gym and on developing electronic portfolios.
- Allow for presentation of findings of the project at the National Physical Education Teacher Education [PETE] conference held in October 2015.

### **Description of the Innovation:**

*The learning objectives* of this project are focused on NASPE standards for initial teachers, see above descriptions, whereas students need to be prepared to enter the job market with up to date skills related to the use of technology in preparing for teaching, in non-verbal communication such as power point presentations, in video demonstrations of skills such as you tube skill performances that link activity concepts to learning experiences, and all this done in an alternative classroom setting such as the gym or outdoors. Students also work collaboratively in small group assignments requiring the use of laptops to prepare presentations on various curriculum models and semester long curriculum and assessment plans. Students also prepare presentations for professional conferences and require the use of a laptop to make those presentations at the professional conferences. *WSU students will be able to* use current technology to accomplish each of the listed elements including preparing and presenting lessons, presentations, curriculum, while working collaboratively in small groups.

### **Preliminary Evidence:**

Previously, students had no access to a laptop for presentations in the gym and yet that is where our teaching is done with K-12 students and for peer teaching. There were no laptops to use for preparing group assignments on curriculum and assessments or for curriculum models presentations. Each student group would have to rely on someone bringing their own laptop or on using the single classroom computer that had to be shared between all students in the class. Not all groups could work on their assignments at the same time. There were no computers for presentations at professional conferences and we have had to borrow one in the past. Our students will be better prepared for their future job opportunities if they are given the training in the new technology during their education at Weber State University.

## Laptops for teaching, video editing, group presentations and teaching in alternative teaching settings such as the gym or outdoors

Editing teaching video has been left to each student to find the best solution. Those students who have been successful have used an Apple product, MacBook or MacBook Air or IMac, and others have not been successful unless they happen upon a knowledgeable technician at a computer lab. Last semester the students found only one person in all the labs they visited and only one person found that able technician.

**Implementation:** Beginning Fall Semester 2014 the new technology will be utilized in:

- PEP 3520 Curriculum and Assessment in Physical Education (3 cr)
  - Enrollment 10-15 students per semester, both fall and spring semesters
- PEP 3520L Curriculum and Assessment in Physical Education Lab (1 cr)
  - 2 sections, enrollment 8 per section, both fall and spring semesters
- PEP 4990 Senior Seminar and Field Experience (3 cr)
  - Enrollment 10-15 students per semester, both fall and spring semesters

### **Detailed Assessment Plan**

The learning objectives, NASPE elements, will be evaluated as described in the following table.

Learning objectives, NASPE elements	Evaluation procedures
3.7	WSU students will be required to assist K-12 students in using current technology to meet lesson objectives. These plans will be submitted in the written lesson plans. This will also be evident in teaching observations.
4.1	WSU students will use current technology, such as a power point presentations projected on the wall, to provide non-verbal instruction to K-12 students during their lessons in the K-12 practicum teaching. These plans will be submitted in the written lesson plans. This will also be evident in teaching observations.
4.2	WSU students will use technology, such as you tube videos projected on the wall, to show demonstrations of plays and skills required for skill development during their lessons in the K-12 practicum teaching. These plans will be submitted in the written lesson plans. This will also be evident in teaching observations.
6.2	WSU students will collaboratively prepare professional presentations for the classroom and professional conferences. These presentations are evaluated using a multi-criteria, multi-level rubric.

### **Sustainability:**

With the rapid rate of development of new technology, it seems reasonable to maintain the use of the most current MacBook Air for up to 5 years. After that time, I will re-evaluate the current state of technology use in the field and write for additional funding if needed.

**Laptops for teaching in alternative settings such as the gym or outdoors, video editing, and group presentations**

**Detailed budget:**

<b>Item</b>	<b>Number requested</b>	<b>Cost</b>	<b>Total</b>
MacBook Air 256GB 11 inch laptop	5	\$1199.00	\$5995.00
Speck 11" SmartShell Case	5	\$49.99	\$249.95
Protective Sleeve	5	\$19.99	\$99.95
Port to DVI Adapter	1	\$24.99	\$24.99
Epson PowerLite 96W Multimedia Projector	1	\$749.95	\$749.95
Kensington Wireless presenter	1	\$49.95	\$49.95
<i>*PETE Conference 2015 Registration</i>	<i>Costs are estimated</i>	<i>\$325</i>	<i>\$325.00</i>
<i>*Hotel 3 nights</i>	<i>using 2012 PETE</i>	<i>\$250</i>	<i>\$250.00</i>
<i>*Transportation air and ground</i>	<i>conference expense</i>	<i>\$210</i>	<i>\$210.00</i>
	<i>records.</i>		
<b>Total</b>			<b>\$7954.79</b>

*\*Please note the cost for the PETE conference attendance is also given in the proposal for 'IPads for Teaching and Assessments and Observations' and should not be repeated if both awards are granted.*

**Letter of support from the Dean**

Gratefully submitted by Geri Conlin,  
Assistant Professor  
Department of Health Promotion and Human Performance  
Moyes College of Education.  
[gconlin@weber.edu](mailto:gconlin@weber.edu)  
801 497 6040