



26

### INSTRUCTIONAL EQUIPMENT REQUEST

**Due in Dean/Unit Head's Office on September 19, 2011 (FALL) and March 1, 2011 (SPRING)**

The Definition of Instructional Equipment can be found in the California Community College's Budget and Accounting Manual. A copy of these definitions is on the PBC webpage:  
<http://grapevine/pbc/InstructionalEquipment.php>

Name of Requestor: Jason Craighead

Division/Unit : Physical Education

Brief title of request (equipment or materials being requested must be similar, related or part of a system. Coach Cam Combo Pack

**Request amount** (unit cost and total cost including tax and shipping.  
Please include all costs including installation, modification to existing facilities to accomodate new equipment, etc.):  
This should come from the vendor quote

Item (s) cost	\$ <u>1450</u>
Tax (.00975)	\$ <u>126.98</u>
Shipping	\$ <u>84</u>
Installation	\$ _____
Facilities Modification	\$ _____
Other	\$ _____
Total Cost	\$ <u>1660.98</u>

**Attach copy of quote(s), estimate(s) and requisition(s):**  
(Must attach quote & requisition; absence of either will delay processing)

**Brief description of specific equipment or materials requested and what they will be used for: (include the # pieces being requested; i.e.: 10 crayola crayons, sky blue, etc. in 250 words or less)**

Requesting 1 Coach Cam Combo Pack.

The combo pack includes:  
Custom portable rolling case, DVD/DVR Recorder, 15" Monitor, Power & Video connectors, 60 foot AV cable, under water camera with wall bracket.

It will be used for all aquatic courses: Learn To Swim, Beginning/Intermediate Swim, Advanced Swim, Swim Fitness, Water Polo, and Intercollegiate Swimming.

Is this in your Program Review? Yes  No

Our Program Review includes supporting the growth of the Aquatic Center; included are pool equipment, adding new aquatic courses, and supplying first rate equipment to enhance student learning.

Three new courses have been added: Learn To Swim, Advanced Swim, and Water Polo.

In addition to aquatics, our Program Review also includes the development of a Kinesiology program/certificate and Kinesiology course (already approved and scheduled for Fall 2012).

Is it a replacement? Yes

Upgrade? Yes

New technology? Yes

Please explain?

The concept of video recording and playback for instructional purposes is not new, but the technology has.

This unit is a self-contained (hardened and locking case) TV/DVD/DVR unit with cable, camera (in water and above water) unit that can capture high speed video. It is designed with aquatics in mind; having a camera capable of recording in water (even in low light) and multiple settings for delayed playback.

Previous technology was someone's old tv/vcr/camcorder rolled around the deck on a service cart. None of this equipment is designed to be anywhere near a pool.

Following is the evaluation criteria; please see corresponding Instructional Equipment Rubric.

***Instructional and Service Impact***

How will this item have a positive impact on instruction and/or teaching and learning in the classroom? Is this for use by the Instructor or students, or both?

This equipment will have a huge and positive impact on instruction as they allow the students to receive instant feedback on stroke technique. This type of video is extremely easy to use, can serve an entire class efficiently, and allow students to see exactly what they are doing wrong in order to make corrections of stroke technique. Set up of the equipment takes less than 5 minutes.

The most common and efficient way to use this in a class of 30 (average aquatic class size: The instructor would explain and demonstrate a skill for the students to learn. The camera sets up from one of many angles. The students would swim by the camera one at a time (about 10 seconds apart), exit the pool, walk to the video screen, see themselves on delay, and receive instant feedback to see how close or far away from the desired skill they are, and repeat.

Anyone who has ever taught a skill knows that perceived ability and actual ability are very different. Students often think/feel that they are doing a skill the way you are explaining, but you are seeing something completely different. This technology allows students instant and unbiased feedback.

This equipment can serve all of the following courses: Learn To Swim, Beginning/Intermediate Swimming, Advanced Swimming, Intercollegiate Swimming & Diving, and Water Polo.

In addition, it will also be used in the Kinesiology course for motion analysis (SLO). Our department also has a computer program (DartFish) that allows us to take multiple attempts from the student and superimpose them to see progress (before and after for example).

***Impact on Enrollment***

**Will the equipment impact enrollment, attract or increase the number of students participating in a course or program?**

This equipment will attract more students as it offers something that they will not experience anywhere else. It will also bring more students back to the courses with a positive experience that yields greater results. Each semester, we have more and more returning students that have progressed a tremendous amount and wish to continue learning.

Motion analysis has been proven to be extremely effective and efficient in teaching any physical skill.

## Access

**How does this item promote the principles of universal design, by providing opportunities for under-represented populations & accommodate students with diverse learning styles?**

This equipment is consistent with universal design and can make expert learners of all students. Video feedback will allow students of any ability to not only see their mistakes, but their progress as well. This is one more teaching tool to assist students in learning. Recent studies in teaching effectiveness has shown that today's student is a much more visual learner, and relies on instant information heavily.

## Outcomes

How will this equipment enable or enhance SLOs? What are the consequences related to learning outcomes if request is not funded?

The equipment requested supports the following SLO's:

Learn to Swim:

- A. Describe and apply aquatic safety methods, including drown-proofing technique
- B. Demonstrate competency of beginning level swimmers, including floating skills, and comfort in the water;
- C. Demonstrate the basic techniques of freestyle and backstroke for 25 yards.

Intercollegiate Swimming:

- A. Demonstrate advanced swimming and diving skills appropriate to intercollegiate level athletic competition;
- B. Evaluate various contest situations and integrate appropriate solutions;

Beginning/Intermediate Swimming:

- A. Perform 100 yards of front crawl with proficient side-breathing and 100 yards backstroke, each with competitive flip-turn; 50 yards breaststroke and 50 yards butterfly, each with the correct competitive turn; 100 yard Individual Medley with correct turns, and a 500 yard continuous swim using any combination of swim strokes.
- B. Understand and implement each fitness/swimming stroke and or a competitive stroke into a training program;

Swimming Fitness:

- A. demonstrate and utilize safety procedures, warm-up techniques and incorporate aquatic equipment into their aquatic fitness regimen;
- B. understand and implement each fitness/swimming stroke and or a competitive stroke into a training program;
- C. employ and demonstrate efficiency techniques.
  - 1 streamline and drag reduction
  - 2 maximizing distance traveled per stroke
  - 3 proper body position with horizontal and lateral alignment
  - 4 advanced breathing techniques

Advanced Swimming:

- A. demonstrate advanced swimming and diving skills appropriate to intercollegiate, high school, recreational league, open water, or triathlon swimming competition;

Kinesiology:

- A. distinguish the three major types of human motion and understand basic biomechanics of human movement;
- B. understand the differences between linear and angular kinematics in describing human motion.
- C. describe the major theories of motor learning;

Water Polo:

- A. demonstrate basic water polo skills: dribbling, passing, shooting
- B. exhibit proper etiquette and sportsmanship throughout competition;
- C. demonstrate and explain the basic components of offense and defense;

If this is not funded, we limit the efficiency of the course, SLO's, and a valuable teaching technology/methodology that our students understand.

**Total Cost of Ownership (This is an attempt to identify what the ongoing costs of purchasing this equipment will be to the institution)**

- a) What is the lifespan of the equipment? 5 years? 10 years? 20 years?**
- b) Is there sufficient current/planned space available for the storage and use of this equipment? If so, where will it be housed? If not, is there a proposed location and are there any costs associated with installation or modifications to the space?**
- c) Are there operating costs and how will they be covered by the department?**
- d) What will be required to maintain the equipment, such as regular servicing or upkeep? Who will perform maintenance, and what will the estimated costs be?**

- a) approximately 10+ years
- b) plenty of storage. It can be housed in the pool office or in a storage room in Building 2500. No costs associated with installation.
- c) Runs off standard electrical plug. The same as running a TV & DVD player
- d) No maintenance costs, the only servicing is making sure it is cared for and put back into storage.

***Visibility/Profile within Community***

**Is this a “flagship” item that will bring recognition/notoriety to the College or raise the stature of the program? Will it attract students and/or enhance the image of the College in the community because of its rare, one-of-a-kind status?**

This will raise the stature of the College and program. Video motion analysis is regarded very highly. This type of equipment is typically found in a 4 year Kinesiology program and at higher-end 4 Year Intercollegiate programs. This equipment is sold world-wide, to over 45 countries.

This pool/program is rare and has a one-of-a-kind status, and it would benefit greatly from having the technological tools to provide a higher education experience.





# Underwater Camera Company of America

625 South Grade Rd  
 Alpine, CA 91901  
 Ph: (619) 997-7946 Fax: (619)722-17634  
 E-Mail: info@ucca.biz [www.ucca.biz](http://www.ucca.biz)

**Quote** 3000

**Customer**

Name	Jason Craighead Las Positas College		
Address	_____		
City	Livermore	CA	94551 USA
Phone	_____ Fax _____		
E-Mail	_____		

Date 09/22/11  
 Order No. \_\_\_\_\_  
 Rep \_\_\_\_\_  
 FOB \_\_\_\_\_

Qty	Description	Unit Price	TOTAL
1	Coachpack	\$1,095.00	\$1,095.00
1	caochcam 501	\$449.00	\$449.00
1	combo discount	(\$94.00)	(\$94.00)

SubTotal	\$1,450.00
Shipping & Handling	\$84.00
Taxes CA	\$126.88
<b>TOTAL</b>	<b>\$1,660.88</b>

Cash  
 Check  
 Credit Card

Name \_\_\_\_\_

CC # \_\_\_\_\_

Date \_\_\_\_\_

Office Use Only

*If not fully satisfied, we will buy back your unit within 30 days. Unit must be in original condition, and offer does not include shipping.*

*Change the way you coach with CoachCam*

# LAS POSITAS COLLEGE Equipment, Apparatus and Service Requisition

#R

FOR REIMBURSEMENT: List payee name & ssn.

TAX ID#

SUGGESTED VENDOR **UNDERWATER CAMERA COMPANY OF AMERICA**

FOR OFFICE USE ONLY

NAME OF STAFF MEMBER DATE WRITTEN DATE REQUIRED DIVISION/DEPARTMENT For inventory purposes include room # where

RETURN COPY OF REQUISITION TO:

PE/HEALTH

Dyan Miller 21-Sep-11 21-Oct-11 ATHLETICS

Carolyn Smutny

DESCRIPTION (PRODUCT, TYPE, SIZE, COLOR, STOCK NUMBER)

UNIT QTY UNIT PRICE

Air

## INSTRUCTIONAL EQUIPMENT REQUEST

Coach Cam Combo Pack

\$ 1,450.00

\$ -

\$ -

\$ -

\$ -

\$ -

\$ -

Vendor Information/ Remit To: Deliver To, include room # (optional):

\$ -

Underwater Camera Co. of America Las Positas College

\$ -

625 South Grade Rd. PE Complex Room PE 131 (Equipment room)

\$ -

Alpine, Ca 91901 Attn: William Eddy or PJ Johnsn

\$ -

1.619.997.7946 3000 Campus Hill Drive

\$ -

Fax 1.619,722.1763 Livermore, CA 94551

\$ -

(925) 424-1290

\$ 1,450.00

Subtotal \$ 1,450.00

Tax \$ 0.0875

Shipping (if available): \$ 84.00

**TOTAL COST \$ 1,660.88**

## INSTRUCTIONAL EQUIPMENT

BT#

Original invoices and receipts must be attached for payment. Include current taxes unless incorporated in price.

ACCOUNT #

FUND

ORG

ACCT

PROGRAM

Business Office

APPROVALS

*[Signature]*  
Supervisor/ Coordinator/ Director

*[Signature]*  
SSN

*[Signature]*  
Dean/VP/ President