

California University of Pennsylvania
University Course Syllabus
Department of Health Sciences
UCC Approval date: 10/16/2017

A. Protocol

Course Name: Orthopedic Appliances: Casting & Bracing
Course Number: ATE 750
Credits: 1
Prerequisites: Enrollment in the PMSAT Program
Maximum Class Size (face-to-face): 30
Maximum Class Size (online): NA

B. Objectives of the Course:

Upon completion of the course, students should be able to:

- 1) Demonstrate the ability to apply appropriate casting techniques for the upper extremity.
- 2) Demonstrate the ability to apply appropriate casting techniques for the lower extremity.
- 3) Demonstrate the ability to fit and apply appropriate braces for the upper extremity.
- 4) Demonstrate the ability to fit and apply appropriate braces for the lower extremity.
- 5) Describe fracture management concepts.
- 6) Demonstrate the ability to apply padding/splinting material.

C. Catalog Description:

This course provides students with the knowledge and skillset of orthopedic casting and necessary training to become a Registered Orthopedic Technologist.

D. Outline of the Course:

Introduction to the Orthopedic Technologist Profession
Fracture Management
Fractures of the Upper Extremity
Upper Extremity Bracing
Short Arm Cast
Thumb Spica Cast
Long Arm Cast
Boxer's Fracture Cast
Semi-Rigid Cast
Upper Extremity Splinting
Fractures of the Lower Extremity
Low Extremity Bracing
Short Leg Cast
Long Leg Cast
Lower Extremity Splinting

E. Teaching Methodology:

- 1) Traditional Classroom Methodology
Lecture, discussion, demonstration, lab activities, and skill application.
- 2) Online Methodology
NA

F. Text

Recommended

McRae, R & Esser, M. Practical Fracture Treatment. 5th edition (2008). Elsevier.

ASOP Study Guide for Orthopedic Technologists:

<http://viewer.epaperflip.com/Viewer.aspx?docid=cbbf0297-a5c0-4d96-8c4a-a325012e0ff1#?page=2>

Fracture Casting & Bracing: <http://viewer.epaperflip.com/Viewer.aspx?docid=90409afc-6c9f-4f3f-af60-a3250130db0a#?page=4>

G. Assessment Activities:

1) Traditional Classroom Assessment

Exams, quizzes, homework assignments, practical skill demonstration, discussion posts, and practical exams.

2) Online Assessment

NA

H. Accommodations for Students with Disabilities:

OSD

Revised June 2015

STUDENTS WITH DISABILITIES

Students reserve the right to decide when to self-identify and when to request accommodations. Students requesting approval for reasonable accommodations should contact the Office for Students with Disabilities (OSD). Students are expected to adhere to OSD procedures for self-identifying, providing documentation and requesting accommodations in a timely manner.

Students will present the OSD Accommodation Approval Notice to faculty when requesting accommodations that involve the faculty.

Contact Information:

- Location: Carter Hall - G-35
- Phone: (724) 938-5781
- Fax: (724) 938-4599
- Email: osdmail@calu.edu
- Web Site: <http://www.calu.edu/osd>

I. Title IX Syllabus Addendum

**California University of Pennsylvania
Reporting Obligations of Faculty Members under Title IX
of the Education Amendments of 1972, 20 U.S.C. §1681, *et seq.***

California University of Pennsylvania and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with the Title IX of the Education Amendments of 1972 and guidance from the Office of Civil Rights, the University requires faculty members to report incidents of sexual violence shared by students to the University's Title IX Coordinator, Dr. John A. Burnett, Special Assistant to the President for EEEEO, Office of Social Equity, South Hall 112, Burnett@calu.edu, 724-938-4014. The only exceptions to the faculty member's reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project. Faculty members are obligated to report sexual violence or any

other abuse of a student who was, or is, a child (person under 18 years of age) when the abuse allegedly occurred to the person designated in the University protection of minors policy.

The University's information regarding the reporting of sexual violence and the resources that are available to victims of sexual violence is set forth at:

- **Office of Social Equity**, South Hall 112, 724-938-4014
 - Social Equity Home Page www.calu.edu/SocialEquity
 - Social Equity Policies www.calu.edu/SEpolicies
 - Social Equity Complaint Form www.calu.edu/SEcomplaint
- **Counseling Center**, Carter Hall G53, 724-938-4056
- **End Violence Center**, Carter Hall G94, 724-938-5707
- **Student Affairs**, Natali Student Center 311, 724-938-4439
- **Wellness Center**, Carter Hall G53, 724-938-4232
- **Women's Center**, Natali Student Center 117, 724-938-5857
- **Threat Response Assessment and Intervention Team (TRAIT) & Department of Public Safety & University Police**, Pollock Maintenance Building, 724-938-4299
 - **EMERGENCY:** From any on-campus phone & Dial **H-E-L-P** or go to any public pay phone & **Dial *1**. (*Identify the situation as an emergency and an officer will be dispatched immediately.)

J. Supportive Instructional Materials, e.g. library materials, web sites, etc.

Professional literature sources: Journal of Athletic Training, Athletic Therapy Today, American Family Physician, Journal of Bone & Joint Surgery, International Journal of Emergency Medicine, Cochrane Database Systematic Reviews, etc.

Additional Information for Course Proposals

K. Proposed Instructors:

Any qualified athletic training faculty, certified by the BOC, licensed as an athletic trainer by the state of PA, and credentialed as a Registered Orthopedic Technologist (ROT).

L. Rationale for the Course:

The course contains several required educational competencies and additional knowledge/skills to expand the clinical capabilities of our students. This course will qualify students to sit for the Registered Orthopedic Technologist exam to gain an additional certification.

M. Specialized Equipment or Supplies Needed:

The following are disposable items that would need to be ordered annually: orthoplast, padding, fiberglass casting rolls, stockinette, cotton roll padding, cast saw blades, semi-rigid fiberglass casting rolls, polyester casting roll, cut-to-length splinting material, scissors, Velcro elastic straps, Velcro tabs, gloves

The following items would need to be purchased (either we do not own the item or would not have a sufficient supply): Flip cast stands, cast saw, zip sticks, cast spreaders, walking boots, hinged knee braces, knee immobilizers, Sully shoulder stabilizers, elbow hinge braces, wrist braces, thumb stabilizers

N. Answer the following questions using complete sentences:

1) Does the course require additional human resources? (Please explain)

No

The instructor for this course will need to maintain their ROT certification in order to certify the course (therefore allowing the students to sit for the certification exam).

2) Does the course require additional physical resources? (Please explain)

Yes

This course will require a lab space (Hamer B5) and the equipment and supplies listed in Section M.

- 3) Does the course change the requirements in any particular major? (Please explain)

Yes

This is a new course and is a part of the new/revised major, the professional master of science in athletic training.

- 4) Does the course replace an existing course in your program? (If so, list the course)

No

If Yes, click here to answer Question N4, above.

- 5) How often will the course be taught?

Each Spring

Click here to add text to qualify your selection for course timing, if necessary.

- 6) Does the course duplicate an existing course in another Department or College? (If the possibility exists, indicate course discipline, number, and name)

No

Click here if the answer to Question N6, above is YES. Indicate the other discipline/department and the other course number and name.

- O. If the proposed course includes substantial material that is traditionally taught in another discipline, you must request a statement of support from the department chair that houses that discipline.

NA

- P. Please identify if you are proposing to have this course considered as a menu course for General Education. The General Education Committee must consider and approve the course proposal before consideration by the UCC.

No

Q. Approval Form

Provide the Approval Form (Signature Page) with the signatures of your department Chair AND college Dean (electronically).