

Pedorthist Certificate Course 2014 Syllabus

Instructors:

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Course Description:

This combined lecture and laboratory course focuses on orthotic treatment modalities of the lower extremity distal to the junction of the gastrocnemius and the Achilles tendon. Students in this course will receive instruction on the assessment, formulation, implementation, and follow up of an orthotic treatment plan for common foot and/or ankle disorders affecting pediatric, adult and geriatric populations. Lab activities with patient models will allow the student to correlate clinical findings with evidence based practice to synthesize the significance of the appropriate choice of components, principles, material properties, and medical management. The student will interact with multiple orthotic systems.

137 total contact hours, 5 credits

Meeting Information:

Lecture will take place online

Lab will be held in room OP205 for a minimum of 10 days, M-F, from 8:00am to 5:00pm with a one hour lunch.

Online Modules:

This course consists of structured synchronous online modules. The students are required to log on to ANGEL to access each module. Each module consists of multiple PowerPoints and video presentations. After watching each module there may be an online quiz or activity that must be completed before the ANGEL system will allow you to advance to the next module. Completion of all the modules is required before you may begin the laboratory portion of this certificate course.

Prerequisites:

Admission to Pedorthist Certificate Program

Major Learning Outcomes:

1. The student will discuss basic terminology, anatomy, and biomechanics of the foot and ankle.
2. The student will compose a comprehensive pedorthic evaluation and assessment.
3. The student will formulate treatment plans based upon their pedorthic assessments.
4. The student will implement the treatment plan, fabricate various pedorthic devices and demonstrate knowledge regarding materials, componentry, and design.
5. The student will construct an effective follow-up plan to assure optimal fit and function of pedorthic devices.
6. The student will examine professional practice policies including practice management plans and promotion of competency and enhancement of the pedorthic field.

Student Learning Outcomes:

1. The student will discuss basic terminology, anatomy, and biomechanics of the foot and ankle by:
 - a. describing normal anatomy of the foot and ankle including bony landmarks, pressure tolerant areas, the arches of the foot, and major nerves and ligaments.
 - b. describing common structural foot deformities and pathologies of adults and pediatrics as they relate to pedorthics.
 - c. assessing normal and pathological gait analysis as it relates to pedorthics.
 - d. demonstrating knowledge of ground reaction force vectors, multiple point force systems, and biomechanics during ambulation with and without pedorthic devices.
2. The student will compose a comprehensive pedorthic evaluation and assessment by:
 - a. compiling a comprehensive patient history using standardized tools and methods to understand the patient's pedorthic needs.
 - b. evaluating specific functional clinical measurements using scientifically validated outcome measures.
 - c. identifying impairments, functional limitations, goals and related biomedical objectives for the patient.
 - d. documenting all information using established record keeping and coding techniques.
3. The student will formulate treatment plans based upon their pedorthic assessments by:
 - a. interpreting evaluation findings and using the appropriate techniques, tools, and equipment to develop a comprehensive pedorthic treatment plan.
 - b. considering the possible interaction, indications and contraindications between the device and the patient with respect to the corrective and accommodative treatment and discuss the indication for and uses of pedorthic devices.
 - c. identifying the proper design, materials and components to support the pedorthic treatment plan.
4. The student will implement the treatment plan, fabricate various pedorthic devices and demonstrate knowledge regarding materials, componentry, and design by:
 - a. utilizing appropriate techniques to obtain and modify accurate impressions, measurements and/or other forms of image capture.

- b. performing current and accepted fabrication and assembly procedures utilizing the appropriate materials, components, and mechanical principles.
 - c. employing safety procedures including, but not limited to, quality and structural stability of pedorthic devices, safe patient transfer methods, safe fabrication protocols.
 - d. evaluating fit and function of pedorthic devices and performing adjustments as necessary.
 - e. documenting appropriate patient instruction and education as well as medical notation and record keeping.
5. The student will construct an effective follow-up plan to assure optimal fit and function of pedorthic devices by:
- a. developing a long-term follow-up plan for comprehensive pedorthic care that includes: periodic evaluation for pedorthic interventions and modifications as needed to maintain optimal fit and function.
6. The student will examine professional practice policies including practice management plans and promotion of competency and enhancement of the pedorthic field by:
- a. composing proper documentation and billing techniques.
 - b. describing common business policies and procedures for pedorthic practice such as facility accreditation, premise/product/professional liability insurance, and inventory management.
 - c. identifying federal regulations pertaining to pedorthic practices.

Required Text Books:

Foot Orthoses and Shoe Modifications Laboratory Manual (will be provided to you)

Recommended Supplemental Materials:

- 1. Foot & Ankle Manual by G. James Sammarco and Paul S. Cooper. ISBN: 9780683183481
- 2. Pedorthic Reference Guide by PFA
- 3. Foot Orthotics in Therapy and Sport by Skip Hunter, Michael Dolan, John Davis.
ISBN: 978-0-87322-829-9

Technology:

All students are expected to access course in ANGEL as well as the College of Orthotics & Prosthetics Student Commons.

Assignments and Grading Scale:

A=100-90%; B = 90-80%; C= 80-70%; D= 70-60%; F below 60%

A minimum of a C is required to pass this course. If you do not obtain a C you will have to repeat the course.

Late Assignments will have a letter grade deducted for each 1 day they are late.

Course Evaluation Strategies:

Quizzes (minimum of 5)	30%
Lab Projects (total of 7)	50%
Documentation Portfolio	5%
Final Exam	15%
Total	100%

Attendance Policy:

Students are expected to attend all class sessions. When students are not present, they must notify the program in advance of the class by calling (727)341-4151 or notifying the instructor via email. There are NO excused absences in this program. Students missing more than 25% of a scheduled class session, be it at the beginning or end of that day's session, will also be indicated as absent.

Tardiness is defined as arriving after the official start time of a class. Every **two** times a student is late to a class, or leaves class early, counts as an absence.

Students that leave prior to the instructor giving a formal class dismissal may also be subject to disciplinary action.

Any absence from a class/lab session may result in withdrawal from that course. Make up exams, tests or quizzes will only be allowed for extenuating occurrences. Documentation will be required in these cases..

Academic Honesty:

Cheating, Plagiarism, Bribery, Misrepresentation, Conspiracy and Fabrication are defined in Rule [6Hx23-4.33-461](#)

Lab Safety Procedures

Students are required to review the lab safety procedures outlined in the student handbook.

Special Accommodations

If you wish to request accommodations as a student with a **documented** disability, please make an appointment with the Learning Specialist on campus. If you have a documented hearing loss, please contact the Program for the Deaf/Hard of Hearing at 791-2628. If you need assistance during an emergency classroom evacuation, please contact your campus Learning Specialist immediately about arrangements for your safety. The Office of Services for Students with Disabilities can be reached at HEC 727-341-3721

Emergency Preparedness

In the event that a hurricane or other natural disaster causes significant damage to St. Petersburg College facilities, you may be provided the opportunity to complete your course work online. Following the event, please visit the college web site for an announcement of the College's plan to resume operations.

This syllabus is currently available on [ANGEL](#) for your convenience. Log in to [ANGEL](#) to confirm that you have access, reporting any difficulty to SPC Student Technical Call Center at 727-341-4357 or online via email at Onlinehelp@spcollege.edu.

Communication: After going to Angel (link follows) <https://angel.spcollege.edu/frameIndex.htm>, logging in and clicking on the courses you are currently enrolled in and clicking on the course. Click/open and then click/open Announcements. The instructor will place important announcements throughout the semester in this site.

**May 2014
Pedorthist Course Schedule**

<u>Module</u>	<u>Date</u>	<u>Topic</u>
1		Introduction to Orthotics and Prosthetics- Online Module
2		Terminology- Online Module
3		Anatomy and Physiology- Online Module
4		Normal Gait- Online Module
5		Abnormal Gait- Online Module
6		Pathologies- Online Module
7		Materials and Technology- Online Module
8		Clinical Assessment- Online Module
9		Practice/Patient Management- Online Module
10		Diabetic Foot- Online Module
<u>Lab</u>	<u>Date</u>	<u>Project</u>
1		AM- Intro to Course and Evaluation Strategies PM- Foam Box Impression Accommodative FO, Slipper casting functional FO
2		AM- Pour/Modify Accommodative FO PM- Modify/Fabricate Accommodative FO
3		AM-Fabricate and Fit Accommodative FO PM-Diabetic and OTS Shoes, OTS FO's
4		AM-Fabricate Shoe Modifications PM-Fabricate Shoe Modifications continued
5		AM- Cast Patient Models for UCBL's PM- Fabricate and Fit Shoe Modifications
6		AM- Pour and Modify Patient's Cast PM- Modify and Fabricate UCBL
7		AM- Custom Shoe Casting PM- Student Casting for Functional FO's and Pour Casts
8		AM-Modify and Fabricate Functional FO PM-Fabricate and Fit Functional FO
9		AM-Cast for SCFO's (SMO's) PM- Partial Foot Concepts and Design
10		AM- Fit Patient Models with UCBL's PM- Prefabricated Device Fitting and Conclusion

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HOPE Careers Consortium is a partnership of five institutions of higher education that is building exciting new programs that will provide valuable career education and training in the Orthotics, Prosthetics, and Pedorthics (O&P) sector. The five institutions are: Baker College—Flint, Michigan; Century College—White Bear Lake, Minnesota; Oklahoma State University Institute of Technology—Okmulgee, Oklahoma; Spokane Falls Community College—Spokane, Washington; and St. Petersburg College—St. Petersburg, Florida.

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