

HLT320 Clinical Foundations in Prosthetics

School: School of Health - Public Health

2024 | Semester 2

UniSC Sunshine Coast

**BLENDED
LEARNING**

Most of your course is on campus but you may be able to do some components of this course online.

Please go to usc.edu.au for up to date information on the teaching sessions and campuses where this course is usually offered.

1. What is this course about?

1.1. Description

This course introduces the clinical aspects of prosthetics related to the assessment of people with amputations, implementation of an intervention strategy in transtibial and transfemoral scenarios, and evaluating the evidence related to common aspects of care. Students learn about the design of socket interfaces, prosthetic foot and knee types, and learn to evaluate the fit and function of a prosthesis on an individual. The projects in the semester introduce students to working directly with individuals with amputations. Students continue to enhance psychomotor skills working on these projects.

1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
BLENDED LEARNING			
Learning materials – Independent structured learning materials	4hrs	Week 1	13 times
Tutorial/Workshop 1 – Workshop	3hrs	Week 1	13 times
Laboratory 1 – Laboratory	3hrs	Week 1	13 times

1.3. Course Topics

Module 1: Amputation incidence, aetiology and healthcare frameworks

Module 2: Transtibial prostheses

Module 3: Transfemoral prostheses

2. What level is this course?

300 Level (Graduate)

Demonstrating coherence and breadth or depth of knowledge and skills. Independent application of knowledge and skills in unfamiliar contexts. Meeting professional requirements and AQF descriptors for the degree. May require pre-requisites where discipline specific introductory or developing knowledge or skills is necessary. Normally undertaken in the third or fourth full-time study year of an undergraduate program.

3. What is the unit value of this course?

12 units

4. How does this course contribute to my learning?

COURSE LEARNING OUTCOMES	GRADUATE QUALITIES MAPPING	PROFESSIONAL STANDARD MAPPING *
On successful completion of this course, you should be able to...	Completing these tasks successfully will contribute to you becoming...	The Australian Orthotic Prosthetic Association
1 Assess and critically discuss current literature related to prosthetic management based on case study scenarios.	Creative and critical thinker Empowered	1.2.1, 1.2.4, 1.3.1, 2.2.1, 6.1.1, 6.1.2, 6.2.1
2 Critically evaluate the fit and alignment of a prosthesis by discussing and/or demonstrating how to adjust the prosthesis to be comfortable in the performance of a task.	Creative and critical thinker Empowered	1.1.5, 1.1.6, 1.3.2, 2.4.1, 2.4.2, 2.4.4, 2.4.5, 3.1.3, 3.2.1, 5.2.1, 5.2.4
3 Demonstrate developing competence and professionalism in the physical assessment of a client/model with an amputation for a) casting of and b) fit of a prosthesis.	Empowered	1.1.1, 1.1.2, 1.1.3, 1.1.4, 1.1.5, 1.1.6, 1.1.7, 2.1.3, 2.4.1, 2.4.2, 3.1.1, 3.1.3, 3.2.2, 5.2.1
4 Safely use lab facilities with increasing independence and reflection in the demonstration/coordination of manufacture of prosthetic sockets	Empowered	3.1.1, 3.1.2, 3.1.3, 3.2.2, 5.1.1, 5.1.2, 5.2.2, 5.3.2
5 Demonstrate effective communication skills with a client-model with an amputation by providing clear instruction and feedback during encounters.	Empowered	1.1.1, 1.1.2, 1.1.3, 1.1.4, 1.1.5, 1.1.6, 1.1.7, 5.3.1

* Competencies by Professional Body

CODE	COMPETENCY
THE AUSTRALIAN ORTHOTIC PROSTHETIC ASSOCIATION	
1.2.1	Receives and develops client referrals, professional handovers health professional team reports and care plans
1.2.4	Actively participates within the health professional team and seeks opportunities to demonstrate professional excellence
1.3.1	Provides clinical justification for prescribed orthotic/prosthetic client treatment
1.1.5	Listens effectively to the client and/or carer
1.1.6	Encourages the client and/or carer to participate and provide feedback
1.3.2	Provides relevant information in order to facilitate client access to care
1.1.1	Ensures all interactions with the client and/or carer demonstrate respect, honesty, empathy and dignity and are conducted in a culturally appropriate manner
1.1.2	Ensures the client is the focus of the care pathway
1.1.3	Ensures the client and/or carer is aware of their rights and responsibilities
1.1.4	Obtains informed consent from the client and/or carer prior to the provision of care
1.1.7	Provides prompt, accurate and comprehensive information in clear terms to enable the client and/or carer to make an informed decision
2.2.1	Accesses and utilises evidence to guide clinical decisions
2.4.1	Considers all relevant characteristics of the client during orthosis/prosthesis fitting and review processes
2.4.2	Uses appropriate techniques to ensure optimal fit and function of the orthosis/prosthesis

CODE	COMPETENCY
2.4.4	Evaluates and monitors treatment outcomes using patient feedback and/or outcome measures
2.4.5	Modifies treatment to ensure best possible outcomes are maintained
2.1.3	Performs assessment professionally, safely and effectively
3.1.3	Performs and/or coordinates requires modifications of orthoses/prostheses
3.2.1	Assesses the orthosis/prosthesis for structural safety at appropriate intervals
3.1.1	Utilises appropriate casting, measuring and/or cast modification techniques to facilitate fabrication
3.2.2	Ensures the orthosis/prosthesis is compliant with manufacturer guidelines and standards
3.1.2	Fabricates and/or coordinates the optimal fabrication of orthoses/prostheses
5.2.1	Recognises the responsibility to do no harm
5.2.4	Recognises and responds appropriately if client is at risk
5.1.1	Adheres to legislation and workplace guidelines relating to safety
5.1.2	Identifies workplace hazards and acts to eliminate or reduce risks
5.2.2	Complies with relevant laws, regulations, policies and guidelines
5.3.2	Seeks assistance or refers on when beyond own level of competence
5.3.1	Works within professional scope of practice, consent of client and/or carer and authority of employer
6.1.1	Undertakes independent learning to further own knowledge and skills on a continuous basis
6.1.2	Shares skills and knowledge with health professional colleagues and students
6.2.1	Assesses and critically analyses sources of evidence

5. Am I eligible to enrol in this course?

Refer to the [UniSC Glossary of terms](#) for definitions of “pre-requisites, co-requisites and anti-requisites”.

5.1. Pre-requisites

HLT204 and enrolled in either SC307 or SC367 with a Prosthetics & Orthotics Extended Major.

5.2. Co-requisites

Not applicable

5.3. Anti-requisites

Not applicable

5.4. Specific assumed prior knowledge and skills (where applicable)

Familiarity with lab procedures and tool usage

6. How am I going to be assessed?

6.1. Grading Scale

Standard Grading (GRD)

High Distinction (HD), Distinction (DN), Credit (CR), Pass (PS), Fail (FL).

6.2. Details of early feedback on progress

In week 4, you will submit your first activity for formative feedback that will reflect your performance to assist in preparing for course tasks.

6.3. Assessment tasks

DELIVERY MODE	TASK NO.	ASSESSMENT PRODUCT	INDIVIDUAL OR GROUP	WEIGHTING %	WHAT IS THE DURATION / LENGTH?	WHEN SHOULD I SUBMIT?	WHERE SHOULD I SUBMIT IT?
All	1a	Artefact - Professional, and Written Piece	Individual	25%	1500-words (+/- 10%)	Week 6	Online Submission
All	1b	Oral	Individual	5%	3-4 minutes + question time	Week 7	In Class
All	2	Portfolio	Individual	35%	2000 words, plus pictures	Week 13	Online Assignment Submission with plagiarism check
All	3	Examination - Centrally Scheduled	Individual	35%	120 minutes	Exam Period	Online Test (Quiz)

All - Assessment Task 1a: Report

GOAL:	The goal of this task is to introduce you to areas of clinical practice and allow you to explore the key concepts and literature relating to a topic in prosthetics. This task will be useful in establishing the relevance of scientific literature use in everyday practice.		
PRODUCT:	Artefact - Professional, and Written Piece		
FORMAT:	1500-word written piece		
CRITERIA:	No.		Learning Outcome assessed
	1	Critical discussion of implication to prosthetic management	1
	2	Assessment and appraisal of current literature	1
	3	Critical discussion of current literature	1
	4	Demonstration of communication skills to applicable stakeholders	5
GENERIC SKILLS:	Communication, Organisation, Information literacy		

All - Assessment Task 1b: Oral Presentation

GOAL:	The goal of this piece requires you to summarise the work you have done in Task 1A, present this to the class, and discuss your findings in a question/answer format. This task will be useful in establishing the relevance of scientific literature use in everyday practice and presenting those findings to an audience.		
PRODUCT:	Oral		
FORMAT:	You will present a summary of your written piece in class and answer questions on your presentation		
CRITERIA:	No.		Learning Outcome assessed
	1	Demonstration of communication skills to applicable stakeholders	5
	2	Critical discussion of the current literature	1
GENERIC SKILLS:	Communication, Problem solving, Organisation, Information literacy		

All - Assessment Task 2: Skills portfolio

GOAL:	The goal of this portfolio is for you to demonstrate your developing competence and theory connection in the key clinical and theoretical skill areas in the provision of transtibial prosthetic intervention.		
PRODUCT:	Portfolio		
FORMAT:	Completed in Canvas, there will be submissions throughout the semester to build your portfolio		
CRITERIA:	No.		Learning Outcome assessed
	1	Demonstration of competence in the safe communication, physical assessment and prosthetic adjustment with a client model	2 3 4 5
	2	Critical reflection and evaluation of performance tasks	2 4
	3	Demonstration prosthetic management skills and reflection of manufacture of prosthetic sockets	1 4
	4	Demonstration of effective communication skills to applicable stakeholders	5
	5	Demonstration of increasing independence in the safe manufacture of prosthetic sockets	4
GENERIC SKILLS:	Problem solving, Organisation, Applying technologies, Information literacy		

All - Assessment Task 3: Examination

GOAL:	The goal of this task is for you to demonstrate and apply your theoretical knowledge, terminology and understanding of concepts relating to prosthetic intervention covered during the entire semester.		
PRODUCT:	Examination - Centrally Scheduled		
FORMAT:	An examination which will consist of a variety of multiple choice, T/F, and fill-in-the blank questions, short answers and long answer questions.		
CRITERIA:	No.		Learning Outcome assessed
	1	Critical discussion of topics relating to prosthetic management, fit and alignment	1 2
	2	Demonstration of effective communication skills to applicable stakeholders	5
GENERIC SKILLS:	Problem solving, Organisation, Applying technologies, Information literacy		

7. Directed study hours

A 12-unit course will have total of 150 learning hours which will include directed study hours (including online if required), self-directed learning and completion of assessable tasks. Student workload is calculated at 12.5 learning hours per one unit.

8. What resources do I need to undertake this course?

Please note: Course information, including specific information of recommended readings, learning activities, resources, weekly readings, etc. are available on the course Canvas site– Please log in as soon as possible.

8.1. Prescribed text(s) or course reader

Please note that you need to have regular access to the resource(s) listed below. Resources may be required or recommended.

REQUIRED?	AUTHOR	YEAR	TITLE	EDITION	PUBLISHER
Required	Kevin C. Chui,Sheng-Che Yen,Milagros Jorge,Michelle M. Lusardi	2019	Orthotics and Prosthetics in Rehabilitation	n/a	Saunders

8.2. Specific requirements

You may be required to purchase some tools to use. The list will be provided to you at the beginning of the semester. These tools would be used throughout the program and can be used in clinical practice after graduation. You may also be required to wear Program shirt, Student ID, approved pants, and closed toe shoes during client encounters.

9. How are risks managed in this course?

Risk assessments have been performed for all field activities and low to moderate levels of health and safety risk exists. Moderate risks may include working in an Australian bush setting, working with people, working outside normal office hours for example. It is your responsibility to review course material, search online, discuss with lecturers and peers and understand the health and safety risks associated with your specific course of study and to familiarise yourself with the University's general health and safety principles by reviewing the [online induction training for students](#), and following the instructions of the University staff.

10. What administrative information is relevant to this course?

10.1. Assessment: Academic Integrity

Academic integrity is the ethical standard of university participation. It ensures that students graduate as a result of proving they are competent in their discipline. This is integral in maintaining the value of academic qualifications. Each industry has expectations and standards of the skills and knowledge within that discipline and these are reflected in assessment.

Academic integrity means that you do not engage in any activity that is considered to be academic fraud; including plagiarism, collusion or outsourcing any part of any assessment item to any other person. You are expected to be honest and ethical by completing all work yourself and indicating in your work which ideas and information were developed by you and which were taken from others. You cannot provide your assessment work to others. You are also expected to provide evidence of wide and critical reading, usually by using appropriate academic references.

In order to minimise incidents of academic fraud, this course may require that some of its assessment tasks, when submitted to Canvas, are electronically checked through Turnitin. This software allows for text comparisons to be made between your submitted assessment item and all other work to which Turnitin has access.

10.2. Assessment: Additional Requirements

Eligibility for Supplementary Assessment

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying:

The final mark is in the percentage range 47% to 49.4%

The course is graded using the Standard Grading scale

You have not failed an assessment task in the course due to academic misconduct

10.3. Assessment: Submission penalties

Late submission of assessment tasks may be penalised at the following maximum rate:

- 5% (of the assessment task's identified value) per day for the first two days from the date identified as the due date for the assessment task.

- 10% (of the assessment task's identified value) for the third day - 20% (of the assessment task's identified value) for the fourth day and subsequent days up to and including seven days from the date identified as the due date for the assessment task.

- A result of zero is awarded for an assessment task submitted after seven days from the date identified as the due date for the assessment task. Weekdays and weekends are included in the calculation of days late. To request an extension you must contact your course coordinator to negotiate an outcome.

10.4. SafeUniSC

UniSC is committed to a culture of respect and providing a safe and supportive environment for all members of our community. For immediate assistance on campus contact SafeUniSC by phone: [07 5430 1168](tel:0754301168) or using the [SafeZone](#) app. For general enquires contact the SafeUniSC team by phone [07 5456 3864](tel:0754563864) or email safe@usc.edu.au.

The SafeUniSC Specialist Service is a Student Wellbeing service that provides free and confidential support to students who may have experienced or observed behaviour that could cause fear, offence or trauma. To contact the service call [07 5430 1226](tel:0754301226) or email studentwellbeing@usc.edu.au.

10.5. Study help

For help with course-specific advice, for example what information to include in your assessment, you should first contact your tutor, then your course coordinator, if needed.

If you require additional assistance, the Learning Advisers are trained professionals who are ready to help you develop a wide range of academic skills. Visit the [Learning Advisers](#) web page for more information, or contact Student Central for further assistance: +61 7 5430 2890 or studentcentral@usc.edu.au.

10.6. Wellbeing Services

Student Wellbeing provide free and confidential counselling on a wide range of personal, academic, social and psychological matters, to foster positive mental health and wellbeing for your academic success.

To book a confidential appointment go to [Student Hub](#), email studentwellbeing@usc.edu.au or call 07 5430 1226.

10.7. AccessAbility Services

Ability Advisers ensure equal access to all aspects of university life. If your studies are affected by a disability, learning disorder mental health issue, injury or illness, or you are a primary carer for someone with a disability or who is considered frail and aged, [AccessAbility Services](#) can provide access to appropriate reasonable adjustments and practical advice about the support and facilities available to you throughout the University.

To book a confidential appointment go to [Student Hub](#), email AccessAbility@usc.edu.au or call 07 5430 2890.

10.8. Links to relevant University policy and procedures

For more information on Academic Learning & Teaching categories including:

- Assessment: Courses and Coursework Programs
- Review of Assessment and Final Grades
- Supplementary Assessment
- Central Examinations
- Deferred Examinations
- Student Conduct
- Students with a Disability

For more information, visit <https://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching>

10.9. Student Charter

UniSC is committed to excellence in teaching, research and engagement in an environment that is inclusive, inspiring, safe and respectful. The [Student Charter](#) sets out what students can expect from the University, and what in turn is expected of students, to achieve these outcomes.

10.10. General Enquiries

In person:

- **UniSC Sunshine Coast** - Student Central, Ground Floor, Building C, 90 Sippy Downs Drive, Sippy Downs
- **UniSC Moreton Bay** - Service Centre, Ground Floor, Foundation Building, Gympie Road, Petrie
- **UniSC SouthBank** - Student Central, Building A4 (SW1), 52 Merivale Street, South Brisbane
- **UniSC Gympie** - Student Central, 71 Cartwright Road, Gympie
- **UniSC Fraser Coast** - Student Central, Student Central, Building A, 161 Old Maryborough Rd, Hervey Bay
- **UniSC Caboolture** - Student Central, Level 1 Building J, Cnr Manley and Tallon Street, Caboolture

Tel: +61 7 5430 2890

Email: studentcentral@usc.edu.au