

HLT105

Foundations of Prosthetic and Orthotic Practice

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

Not offered until Semester 2 2023

This course introduces you to the foundations of P&O management of foot and lower limb pathologies, while relating these skills to models of behaviour and social theories of healthcare. You will be introduced to clinical assessment skills, how to explore and utilise evidenced-based treatment practices, and develop critical communication strategies to advance your understanding of client centred care as a healthcare professional. Practical activities involve industry-relevant clinical assessment techniques and the technical skills to fabricate and deliver P&O interventions for the lower limb.

1.2. How will this course be delivered?

| ACTIVITY | HOURS | BEGINNING WEEK | FREQUENCY |
|---|-------|----------------|-----------|
| BLENDED LEARNING | | | |
| Learning materials – Independent structured learning materials | 3hrs | Week 1 | 13 times |
| Tutorial/Workshop 1 – On campus tutorial | 2hrs | Week 1 | 13 times |
| Laboratory 1 – On campus laboratory | 3hrs | Week 1 | 13 times |

1.3. Course Topics

1. The health professional and client centred care
2. High Risk Foot and lower limb pathology and management
3. Understanding clinical practices relating to persons with partial foot amputation

2. What level is this course?

100 Level (Introductory)

Engaging with discipline knowledge and skills at foundational level, broad application of knowledge and skills in familiar contexts and with support. Limited or no prerequisites. Normally, associated with the first 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 Describe key concepts relating to theory of behavioural/social health and pathology/management of the High Risk Foot. | Knowledgeable Empowered | 1.1.1, 1.2.3, 2.2.1, 2.3.2, 2.4.1, 4.3.1, 5.2.1, 5.2.3, 5.2.4, 6.2.1 |
| 2 Apply and critique developing techniques in casting, fitting and fabrication used in High Risk/Partial Foot Interventions. | Creative and critical thinker Empowered | 2.4.1, 2.4.2, 2.4.5, 3.1.1, 3.1.2, 3.1.3, 3.2.1, 3.2.2, 5.2.4 |
| 3 Objectively assess a prosthetic and/or orthotic client and/or simulation in a safe and effective manner. | Knowledgeable Empowered Engaged | 1.1.1, 1.1.2, 1.1.3, 1.1.4, 1.1.5, 1.1.6, 1.1.7, 1.1.8, 2.1.2, 2.1.3, 5.2.1 |
| 4 Discuss current literature related to prosthetic and orthotic management and client centred care. | Knowledgeable Engaged | 1.2.3, 2.2.1, 2.3.2, 5.2.4, 6.2.1 |
| 5 Communicate assessment processes and best practice clinical interventions to clients, professional colleagues and wider community. | Ethical Engaged | 1.2.3, 1.2.4, 6.1.2 |

* Competencies by Professional Body

| CODE | COMPETENCY |
|---|--|
| THE AUSTRALIAN ORTHOTIC PROSTHETIC ASSOCIATION | |
| 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 |
| 1.2.3 | Establishes and maintains effective working relationships with other health professionals to enhance collaborative practice and client access to care |
| 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 |
| 1.1.5 | Listens effectively to the client and/or carer |
| 1.1.6 | Encourages the client and/or carer to participate and provide feedback |
| 1.1.7 | Provides prompt, accurate and comprehensive information in clear terms to enable the client and/or carer to make an informed decision |
| 1.1.8 | Uses all available resources to enhance communication |
| 1.2.4 | Actively participates within the health professional team and seeks opportunities to demonstrate professional excellence |
| 2.2.1 | Accesses and utilises evidence to guide clinical decisions |
| 2.3.2 | Considers the information obtained, the client and/or carer's goals and evidence when formulating treatment options |
| 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 |
| 2.4.5 | Modifies treatment to ensure best possible outcomes are maintained |

| CODE | COMPETENCY |
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| 2.1.2 | Selects assessment techniques, outcome measures and other tools/instruments based on evidence, which are relevant to the client's presentation |
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| 2.1.3 | Performs assessment professionally, safely and effectively |
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| 3.1.1 | Utilises appropriate casting, measuring and/or cast modification techniques to facilitate fabrication |
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| 3.1.2 | Fabricates and/or coordinates the optimal fabrication of orthoses/prostheses |
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| 3.1.3 | Performs and/or coordinates requires modifications of orthoses/prostheses |
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| 3.2.1 | Assesses the orthosis/prosthesis for structural safety at appropriate intervals |
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| 3.2.2 | Ensures the orthosis/prosthesis is compliant with manufacturer guidelines and standards |
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| 4.3.1 | Recognises service gaps or inefficiencies and works collaboratively to identify solutions |
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| 5.2.1 | Recognises the responsibility to do no harm |
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| 5.2.3 | Abides by applicable codes of ethics and conduct |
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| 5.2.4 | Recognises and responds appropriately if client is at risk |
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| 6.2.1 | Assesses and critically analyses sources of evidence |
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| 6.1.2 | Shares skills and knowledge with health professional colleagues and students |
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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

HLT102 and enrolled in SC307

5.2. Co-requisites

Not applicable

5.3. Anti-requisites

Not applicable

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

Not applicable

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

Feedback provided in week 3 via the embedded portfolio assessment.

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 | 1 | Activity Participation | Individual | 35% | 1800 words | Week 9 | Online ePortfolio Submission |
| All | 2 | Activity Participation | Individual and Group | 35% | The poster will be a 1500 word group project. Oral presentation: As a group you will present a summary of your poster in a 10 minute presentation | Week 12 | In Class |
| All | 3 | Examination - Centrally Scheduled | Individual | 30% | 90 minutes | Exam Period | Exam Venue |

All - Assessment Task 1: Portfolio of professional clinical skills

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|------------------|---|---|----------------------------------|
| GOAL: | This portfolio will allow you to demonstrate and reflect on your growing professional skills and theory connection relating to client centred care. | | |
| PRODUCT: | Activity Participation | | |
| FORMAT: | You will complete a series of interactions and reflections, both on campus and via submissions to Canvas. | | |
| CRITERIA: | No. | | Learning Outcome assessed |
| | 1 | Assessment of and in communication with client | 3 5 |
| | 2 | Description and critique of client simulation | 2 3 |
| | 3 | Application of developing skills in fabrication and fitting | 2 |
| | 4 | Critique of developing skills in fabrication and fitting | 2 |
| | 5 | Communication of best practice clinical intervention | 5 |

All - Assessment Task 2: Poster and Oral presentation

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| GOAL: | This poster will provide an opportunity to explore the literature relevant to a prosthetic or orthotic clinical issue and identify best practice clinical intervention. |
| PRODUCT: | Activity Participation |
| FORMAT: | Poster: The poster will include headings and Vancouver referencing style. Oral presentation: As a group you will present a summary of your poster in a 10 minute presentation, and answer questions from tutors/peers. |

| CRITERIA: | No. | Learning Outcome assessed | |
|-----------|-----|---|-------|
| | 1 | Discussion of current literature relating to client centred care | 4 |
| | 2 | Description of key concepts relating to management of the High Risk Foot | 1 |
| | 3 | Communication to relevant stakeholders | 5 |
| | 4 | Interactive discussion of literature relating to theory of the High Risk Foot | 1 4 5 |

All - Assessment Task 3: Examination

| GOAL: | The purpose of the final exam is to ensure you can understand, interpret and apply the theoretical knowledge and terminology related to clinical topics, care and intervention as covered during all learning materials of the semester. | | |
|-----------------|--|--|-----|
| PRODUCT: | Examination - Centrally Scheduled | | |
| FORMAT: | A 90-minute 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 | Description of concepts relating to theory of behavioural/social health and pathology/management of the high risk foot | 1 |
| | 2 | Description of techniques in casting, fitting and fabrication used in High Risk and Partial Foot interventions | 2 |
| | 3 | Communication of best practice clinical interventions relating to PO management | 4 5 |

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 | 4 | Saunders |

8.2. Specific requirements

You will be required to wear Program polo (available from UniSC Marketing), Student name tag, Student ID, approved pants, and closed toe shoes during client and/or professional encounters.

9. How are risks managed in this course?

Risk assessments have been performed for all laboratory classes and a moderate level of health and safety risk exists. Moderate risks are those associated with laboratory work such as working with chemicals and hazardous substances. You will be required to undertake laboratory induction training and it is also 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

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 will be penalised at the following maximum rate (the rates are cumulative):

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 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 and supply the required documentation 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