

PDTY2205: Diabetes and Wound Management

Ourimbah

Semester 2 - 2023



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

OVERVIEW

Course Description This course investigates the pathophysiology, clinical presentation, diagnosis, treatment and sequelae of diabetes mellitus and vascular disease with particular reference to wound care. The course will also cover assessment of patients with high risk conditions, developing treatment plans based on the assessment findings and high risk patient management.

Review of Progress Requirements This course is a compulsory program requirement for students in the following program(s):

- Bachelor of Podiatry

In addition to meeting the University's overall requirements for academic progression, students enrolled in these program(s) must satisfactorily complete this course in order to progress in their program.

Requisites This course is only available to students enrolled in the Bachelor of Podiatry program (11692). Pre-requisites - successful completion of PDTY2101, PDTY2102 PDTY2103.

Assumed Knowledge Full body anatomy and physiology
Clinical pharmacology
Pedal neurovascular assessment
Accommodative foot orthoses
Clinical gait analysis

Contact Hours

Ourimbah
Clinical *
Face to Face Off Campus
24 hour(s) per Term Full Term

Lecture
Face to Face On Campus
2 hour(s) per Week for 12 Weeks

Tutorial *
Face to Face On Campus
2 hour(s) per Week for 12 Weeks

Unit Weighting Workload 10
* This contact type has a compulsory requirement.
Students are required to spend on average 120-140 hours of effort (contact and non-contact) including assessments per 10 unit course.

COURSE OUTLINE

www.newcastle.edu.au

CRICOS Provider 00109J

CONTACTS

Course Coordinator **Ourimbah**
Mr John Niemotko
John.Niemotko@newcastle.edu.au
Consultation: via email

Teaching Staff Other teaching staff will be advised on the course Canvas site.

School Office **School of Health Sciences**
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SYLLABUS

Course Content

- Diabetology
- Acute and chronic complications
- Psychosocial implications
- Diabetes and the foot; complications, assessment and management
- Peripheral arterial disease
- Venous insufficiency
- Lymphatic disorders
- Aetiology, pathophysiology, assessment and management
- Wound aetiology
- Physiology of wound healing
- Clinical assessment and management

Course Learning Outcomes **On successful completion of this course, students will be able to:**

1. Explain the physiological basis of clinical manifestations of diabetes mellitus across multiple organs and body systems.
2. Interpret and apply clinically the results of studies of disease prevalence, incidence and prognosis in relation to diabetes mellitus.
3. Explain the psychosocial and therapeutic issues in diabetes mellitus and PVD.
4. Perform a thorough clinical assessment of the high risk foot.
5. Develop appropriate multidisciplinary management plans for the high risk foot optimising patient health, mobility and independence.
6. Describe and develop effective health promotion and education strategies for the high risk foot.
7. Explain the physiological basis and principles of wound healing including clinical indications for and examples of generic wound dressings.
8. Describe in detail acute and chronic foot infections including microbial aetiology and effective management.
9. Describe the pharmacological agents used in the management of diabetes mellitus and the high risk foot.
10. Understand concepts of diagnostic accuracy, recommend appropriate diagnostic tests for the management of the high risk foot, interpret the significance of the results and take

appropriate action.

11. Work effectively in group based and clinical settings.
12. Apply evidence based practice principles to the management of the high risk foot
13. Effectively and safely apply skills and knowledge in a clinical environment

Course Materials This course is supported by the Canvas site

COMPULSORY REQUIREMENTS

In order to pass this course, each student must complete ALL of the following compulsory requirements:

Contact Hour Requirements:

- Clinical There is a compulsory attendance requirement in this course. Students must attend all their scheduled tutorial and clinical sessions for this course. Students not meeting the attendance requirements for all sessions will not meet the compulsory course component requirements for the assessment item and will be given a failed grade (FF) for the course. This assessment item requires attendance throughout the semester therefore no opportunity for remediation for the sessions will be allowed unless accompanied by the appropriate Adverse Circumstance documentation.
- Tutorial There is a compulsory attendance requirement in this course.

Course Assessment Requirements:

- Assessment 3 – clinical placement – pass requirement. Students must pass this item in order to pass the course.

Pre-Placement Requirements:

- First Aid Certificate - students must complete a First Aid Certificate issued by an approved provider.
- National Police Certificate - Students must complete a National Police Check.
- Prohibited Employment Declaration - Declaration that student is not a prohibited person in terms of the Child Protection (Prohibited Employment) Act 1998.

Protection (Prohibited Employment) Act 1998. - A signed NSW Health student declaration - Compliance with NSW Health immunisation requirements

ASSESSMENTS

This course has 4 assessments. Each assessment is described in more detail in the sections below.

	Assessment Name	Due Date	Involvement	Weighting	Learning Outcomes
1	Class Written Examination	Week 7 in lecture time	Individual	25%	1, 2, 3
2	OSCE	Week 13	Individual	35%	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,
3	Attendance placement/tutorial and professional behaviour	Rostered weeks of clinical placement and tutorials week 1-12	Individual	Pass/fail Formative	4, 6, 11, 12, 13
4	Formal Exam	Formal exam period	Individual	40%	1, 2, 3, 5, 6, 7, 8, 9, 10

Late Submissions

The mark for an assessment item submitted after the designated time on the due date, without an approved extension of time, will be reduced by 10% of the possible maximum mark for that assessment item for each day or part day that the assessment item is late. Note: this

applies equally to week and weekend days.

Assessment 1 - Class Written Examination

Assessment Type	In Term Test
Description	This is a case-based short answer examination which will assess the first 6 weeks of content delivered and will be held in the regular week 7 lecture slot.
Weighting	25%
Due Date	Week 7 in lecture time
Submission Method	In class test
Assessment Criteria	1-6,9,10,12
Return Method	This item will not be returned
Feedback Provided	A formal session in the week 8 tutorial will provide feedback from this assessment item

Assessment 2 - OSCE

Assessment Type	In Term Test
Description	This OSCE will be held in week 13, Wednesday 26/10, in the podiatry skills lab. Individual timeslots have been made available in Canvas.
Weighting	35%
Due Date	Week 13
Submission Method	In class test
Assessment Criteria	4-10,12,13
Return Method	This item will not be returned
Feedback Provided	Feedback will be made available by request

Assessment 3 - Attendance placement/ tutorial and professional behaviour

Assessment Type	Professional Task
Description	Students are required to attend three days of clinical placement at the UON Podiatry clinic
Weighting	This is a formative assessment and will not contribute to your final grade.
Due Date	Attendance at the designated clinic sessions is compulsory in order to ensure accreditation requirements are met. Students not meeting the attendance requirements for clinical sessions will not meet the compulsory course component requirements for the assessment item and will be given a failed grade (FF) for this course. The clinical supervisors/tutors will sign off attendance for each session. To attend placement and pass this course students will need to demonstrate prior to placement: <ul style="list-style-type: none">• Senior First Aid Certificate• Students must complete a First Aid Certificate issued by an approved provider.• National Police Certificate• Students must complete a National Police Check.• Prohibited Employment Declaration• Declaration that student is not a prohibited person in terms of the Child Protection(Prohibited Employment) Act 1998.• A signed NSW Health code of conduct agreement• A signed NSW Health student declaration• All specified immunisations and evidence of immunity (from a GP)• A completed NSW Health form 2. Tuberculosis (TB) assessment tool IMPORTANT PLACEMENT INFORMATION Placement is a mandatory component of this degree Graduation cannot occur without satisfactory completion of placement. Placement cannot occur unless the above list of requirements have been met. Any questions about your documentation please contact the Placements team.
Submission Method	Week 12
Assessment Criteria	4,5,6,10,11,12
Return Method	Professional Task
Feedback Provided	Students are required to attend three days of clinical placement at the UON Podiatry clinic Feedback may be available upon request

Assessment 4 - Formal Exam

Assessment Type	Formal Examination
Description	This is a multiple choice examination that will be held in the formal exam period. This is a closed book examination.
Weighting	40%
Due Date	In formal examination period
Submission Method	School based examination
Assessment Criteria	1,2,3,4,6,7,8,9,10,12
Return Method	This it will not be returned
Feedback Provided	On request

ADDITIONAL INFORMATION

Grading Scheme

This course is graded as follows:

Range of Marks	Grade	Description
85-100	High Distinction (HD)	Outstanding standard indicating comprehensive knowledge and understanding of the relevant materials; demonstration of an outstanding level of academic achievement; mastery of skills*; and achievement of all assessment objectives.
75-84	Distinction (D)	Excellent standard indicating a very high level of knowledge and understanding of the relevant materials; demonstration of a very high level of academic ability; sound development of skills*; and achievement of all assessment objectives.
65-74	Credit (C)	Good standard indicating a high level of knowledge and understanding of the relevant materials; demonstration of a high level of academic achievement; reasonable development of skills*; and achievement of all learning outcomes.
50-64	Pass (P)	Satisfactory standard indicating an adequate knowledge and understanding of the relevant materials; demonstration of an adequate level of academic achievement; satisfactory development of skills*; and achievement of all learning outcomes.
0-49	Fail (FF)	Failure to satisfactorily achieve learning outcomes. If all compulsory course components are not completed the mark will be zero. A fail grade may also be awarded following disciplinary action.

*Skills are those identified for the purposes of assessment task(s).

Communication Methods

Communication methods used in this course include:

Course Evaluation

Oral Interviews (Vivas)

As part of the evaluation process of any assessment item in this course an oral examination (viva) may be conducted. The purpose of the oral examination is to verify the authorship of the material submitted in response to the assessment task. The oral examination will be conducted in accordance with the principles set out in the [Oral Examination \(viva\) Procedure](#). In cases where the oral examination reveals the assessment item may not be the student's own work the case will be dealt with under the [Student Conduct Rule](#).

Academic Misconduct

All students are required to meet the academic integrity standards of the University. These standards reinforce the importance of integrity and honesty in an academic environment. Academic Integrity policies apply to all students of the University in all modes of study and in all locations. For the Student Academic Integrity Policy, refer to <https://policies.newcastle.edu.au/document/view-current.php?id=35>.

Adverse

The University acknowledges the right of students to seek consideration for the impact of

Circumstances allowable adverse circumstances that may affect their performance in assessment item(s). Applications for special consideration due to adverse circumstances will be made using the online Adverse Circumstances system where:

1. the assessment item is a major assessment item; or
2. the assessment item is a minor assessment item and the Course Co-ordinator has specified in the Course Outline that students may apply the online Adverse Circumstances system;
3. you are requesting a change of placement; or
4. the course has a compulsory attendance requirement.

Before applying you must refer to the Adverse Circumstance Affecting Assessment Items Procedure available at:
<https://policies.newcastle.edu.au/document/view-current.php?id=236>

Important Policy Information The Help button in the Canvas Navigation menu contains helpful information for using the Learning Management System. Students should familiarise themselves with the policies and procedures at <https://www.newcastle.edu.au/current-students/no-room-for/policies-and-procedures> that support a safe and respectful environment at the University.

This course outline was approved by the Head of School. No alteration of this course outline is permitted without Head of School approval. If a change is approved, students will be notified and an amended course outline will be provided in the same manner as the original.

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Ourimbah Semester 2 – 2023 Schedule

Week beginning	Week	Lecture Topic	Tutorial Topic
17 Jul	1	Introduction to diabetes	No tutorial
24 Jul	2	The foot and diabetes	History taking and education
31 Jul	3	Charcot neuroarthropathy	Diabetes management and education
7 Aug	4	Systemic and peripheral arterial disease and limb ischaemia	Charcot management, total contact casting
14 Aug	5	The biomechanics of diabetes	Risk assessment case studies
21 Aug	6	Pharmacology in diabetes	Planar pressure management (offload strategies)
28 Aug	7	Midsemester exam	Neurological and vascular assessment review
4 Sep	8	Venous disorders	Midsemester exam feedback
11 Sep	9	Lymphoedema and Vasoneural disorders	Venous/lymphoedema disorders
18 Sep	10	Wound assessment	Wound assessment
25 Sep – 8 Oct		MIDSEMESTER BREAK	
9 Oct	11	Wound management	Wound assessment, dressing and aseptic technique
16 Oct	12	Revision	Wound assessment, dressing and offloading