

TRAU6001: Introduction to Trauma Care

Online

Semester 1 - 2024



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

OVERVIEW

Course Description	This course will provide the comprehensive foundation for the Master of Traumatology program by defining the discipline and defining the effects of injury on society. The course also serves as a background for the body region specific modules of the program by covering patients' journeys through the trauma system, including outcomes.
Academic Progress Requirements	Nil
Assumed Knowledge	Human anatomy, physiology and pathology.
Contact Hours	Online Online Activity Online 10 hour(s) per week(s) for 13 week(s) starting Week 1
Unit Weighting Workload	10 Students are required to spend on average 120-140 hours of effort (contact and non-contact) including assessments per 10 unit course.

COURSE OUTLINE

CONTACTS

Course Coordinator

Online

Dr Dieter Weber
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Dr Natalie Enninghorst
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Teaching Staff

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

School Office

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SYLLABUS

Course Content

The course will be organised into eight topics over 13 teaching weeks in one semester. Week 1: Introduction;

- What is Traumatology;
- The global burden of trauma;
- The history of trauma (war and civilian);
- Blunt mechanisms of trauma; and
- Penetrating trauma and ballistics.

Weeks 2 & 3: Prehospital care;

- Models of prehospital care (volunteer, paramedic, medical);
- Prehospital triage and destination protocols and their rationale;
- The impact of aeromedical transport;
- Prehospital factors and interventions/treatments - what makes a difference;
- Prehospital procedures and medications; and
- Other organ dysfunctions and their management.

Weeks 4 & 5: Outcomes;

- Trauma scores for triage, injury severity and outcomes;
- Trauma registries (hospital, regional, national, international);
- Key performance indicators;
- Short term outcomes; and
- Long term outcomes.

Week 6: Injury prevention and rehabilitation;

- Levels of prevention and relevance to trauma;
- Prevention specific to mechanisms;
- The effectiveness of injury prevention; and
- Principles of major trauma rehabilitation.

Week 7: Definitions, levels of care;

- Trauma system: inclusive and exclusive, components of the system;
- Trauma centre: levels of care, designation and verification;
- Trauma service: personnel, tasks and responsibilities; and
- Trauma team: members, roles, team dynamics.

Weeks 8 & 9: Emergency department management;

- Trauma team activation criteria, tiered response;
- Trauma series: things to look for;
- Key decisions to make during trauma resuscitation;
- Selective imaging versus panscan or total body CT scan; and
- Intra and interhospital transport.

Weeks 10 & 11: Continued care on ward and beyond;

- The rationale for trauma ward and admitting team;
- Trauma case management;
- The role of physiotherapy and occupational therapy;
- Acute operative phase, urgent procedures, operating room requirements;
- Operative phases, timing of those; and
- Discharge planning, outpatient follow-up.

Weeks 12 & 13: Special aspects of trauma care;

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- The organisation of paediatric trauma care;
 - Principles of mass casualty management;
 - Principles and levels of burn care;
 - Trauma nursing roles;
 - Considerations in geriatric trauma care; and
 - Pregnancy and trauma.

Further to the coursework you will be required to attend an intensive three-day face to face interactive workshop.

Course Learning Outcomes

On successful completion of this course, students will be able to:

1. analyse trauma systems and optimal prehospital, emergency and ward care;
2. understand the outcomes of major trauma including extremes of age; and
3. be familiar with principles of quality assurance process and organisation of disaster response.

Course Materials

COMPULSORY REQUIREMENTS

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

Course Assessment Requirements:

- Assessment 1 - Discussion Board: Submit assessment item - Must submit this assessment to pass the course.
- Assessment 2 - Multiple Choice Quiz: Part 1: Submit assessment item - Must submit this assessment to pass the course.
- Assessment 3 - Multiple Choice Quiz: Part 2: Submit assessment item - Must submit this assessment to pass the course.
- Assessment 4 - Multiple Choice Quiz: Part 3: Submit assessment item - Must submit this assessment to pass the course.
- Assessment 5 - Multiple Choice Quiz: Part 4: Submit assessment item - Must submit this assessment to pass the course.
- Assessment 6 - Paper Upload and Summary: Submit assessment item - Must submit this assessment to pass the course.

ASSESSMENTS

This course has 6 assessments. Each assessment is described in more detail in the sections below.

	Assessment Name	Due Date	Involvement	Weighting	Learning Outcomes
1	Discussion Board*	See Canvas	Individual	19%	1, 2, 3
2	Multiple Choice Quiz: Part 1*	See Canvas	Individual	19%	1, 2, 3
3	Multiple Choice Quiz: Part 2*	See Canvas	Individual	19%	1, 2, 3
4	Multiple Choice Quiz: Part 3*	See Canvas	Individual	19%	1, 2, 3
5	Multiple Choice Quiz: Part 4*	See Canvas	Individual	19%	1, 2, 3
6	Paper Upload and Summary*	See Canvas	Individual	5%	1, 2, 3

* This assessment has a compulsory requirement.

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 - Discussion Board

Assessment Type	Participation
Weighting	19%
Compulsory Requirements	Submit assessment item - Must submit this assessment to pass the course.
Due Date	See Canvas
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

Assessment 2 - Multiple Choice Quiz: Part 1

Assessment Type	Quiz
Weighting	19%
Compulsory Requirements	Submit assessment item - Must submit this assessment to pass the course.
Due Date	See Canvas
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

Assessment 3 - Multiple Choice Quiz: Part 2

Assessment Type	Quiz
Weighting	19%
Compulsory Requirements	Submit assessment item - Must submit this assessment to pass the course.
Due Date	See Canvas
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

Assessment 4 - Multiple Choice Quiz: Part 3

Assessment Type	Quiz
Weighting	19%
Compulsory Requirements	Submit assessment item - Must submit this assessment to pass the course.
Due Date	See Canvas
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

Assessment 5 - Multiple Choice Quiz: Part 4

Assessment Type	Quiz
Weighting	19%
Compulsory Requirements	Submit assessment item - Must submit this assessment to pass the course.
Due Date	See Canvas
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

Assessment 6 - Paper Upload and Summary

Assessment Type	Written Assignment
Weighting	5%
Compulsory Requirements	Submit assessment item - Must submit this assessment to pass the course..
Due Date	See Canvas
Opportunity to Reattempt	Students WILL NOT be given the opportunity to reattempt this assessment.

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

Each year feedback is sought from students and other stakeholders about the courses offered in the University for the purposes of identifying areas of excellence and potential improvement.

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>.

Please note Artificial Intelligence (AI) is not to be used to complete assessments in TRAU6001.

Use of AI is permitted as outlined here <https://libguides.newcastle.edu.au/AI-tools/uni>.

Adverse Circumstances

The University acknowledges the right of students to seek consideration for the impact of 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/respect-at-uni/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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