

# HLTH 3025 PARAMEDICINE TRAUMA CARE

**Credit Points** 10

**Description** This subject deals with pathophysiology and pathogenesis of traumatic injuries, conditions arising from uncompensated environmental exposures, and toxicological emergencies. Students are taught how to care for these patients in the out-of-hospital setting. Best patient outcomes are achieved when out-of-hospital care forms part of a trauma system. Therefore, paramedics are required to make decisions to achieve the provision of the right care and transfer to the right hospital in the right time. This unit aims to develop the knowledge and skills to safely and effectively care, treat and manage adult and paediatric patients who have sustained traumatic injury or injuries, conditions arising from uncompensated environmental exposures, and toxicological emergencies.

**School** Health Sciences

**Student Contribution Band** HECS Band 2 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 3 subject

## Restrictions

Students must be enrolled in 4790 Bachelor of Paramedicine.

## Assumed Knowledge

First and second year of the Bachelor of Paramedicine

## Learning Outcomes

1. Examine and appreciate the domestic and international incidence of a range of major traumatic injuries.
2. Link patient presentation to underlying pathophysiology and pathogenesis of traumatic injuries and environmental conditions.
3. Demonstrate and analyse evidence-based out-of-hospital management of major trauma, environmental emergencies and toxicological emergencies.
4. Describe effective integration of out-of-hospital care into a trauma system.
5. Apply clinical reasoning and problem-solving in complex patient presentations and situations.
6. Explain and apply principles of out-of-hospital trauma care to the paediatric population.
7. Apply relevant NSQHS standards to out-of-hospital trauma care provision.

## Subject Content

The subject covers the paramedic response to a range of major traumatic, environmental and toxicological emergencies. To achieve this the subject will cover the following topics:

- Human Factors, Non-Technical Skills and CRM in Out-of-Hospital Trauma Care
- Trauma Management Overview, including Trauma Systems
- Airway Management in the Trauma Patient
- Shock (advanced pathophysiology with focus on trauma-related types, i.e. haemorrhagic, neurogenic, obstructive, traumatic)
- Specific traumatic injuries to various body regions

- Burns
- Paediatric Trauma
- Environmental Emergencies
- Toxicological Emergencies
- Anaphylaxis