## Programme Content

### PMTM01 Trauma: the disease

<table>
<thead>
<tr>
<th>Year</th>
<th>Credits</th>
<th>Block Length</th>
<th>Assessment</th>
<th>Indicative Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20 ECT Credits</td>
<td>5 days</td>
<td>USWP, MSPE, Essay</td>
<td>This module will enable students to understand the unique injury pattern, the specific constraints and the optimum management strategies for the casualties of war and civilian war.</td>
</tr>
</tbody>
</table>

### PMMO2 Trauma: The Turning Point

<table>
<thead>
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<tr>
<td>1</td>
<td>20 ECT Credits</td>
<td>5 days</td>
<td>USWP, MSPE, Essay</td>
<td>Students will learn to apply the principles of extended resuscitation and damage control surgery. These are techniques developed to minimise the complications seen following major trauma, having an acute effect upon the patient's immune system. The students will also learn the details of complications following major injuries such as multiple organ failure and the current approach to intensive Care Management.</td>
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### PMTM03 Healing and Rehabilitation

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<tr>
<td>1</td>
<td>20 ECT Credits</td>
<td>5 days</td>
<td>USWP</td>
<td>The very first steps the body takes when injured not only limits the consequences of injury but also lays the foundation of healing. This module enables the students to understand healing from the level the injured tissue, to restoration of function, and ultimately the return to normal life. The students will be introduced to the foundations of healing.</td>
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### PMTM04 Regional Trauma - non-modified pathway

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<tr>
<td>1</td>
<td>20 ECT Credits</td>
<td>5 days</td>
<td>USWP, MSPE, Essay</td>
<td>Students will learn to assess such injuries rapidly and accurately, recognise and manage the immediate life-threatening injuries to the brain and trunk. This module will enable students to assess such injuries rapidly and accurately, recognise and manage the immediate life-threatening injuries encountered. Students will also focus on the principles of wound management and advanced surgical reconstruction.</td>
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### PMTM05 Definitive Reconstruction Trauma - non-modified pathway

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<tbody>
<tr>
<td>2</td>
<td>20 Credits</td>
<td>5 days</td>
<td>USWP, MSPE, Case Presentation</td>
<td>This module will enable students to understand the principles and skills acquired in the preceding modules as they apply to the planning and execution of surgical reconstruction. In this, the final clinical module of the taught component of the MSc, the emphasis will be placed upon consolidating knowledge acquired in the context of the disease pattern of war injuries. Students will also learn to reflect upon the quality of research upon which changes are made.</td>
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### PMMO6 Military Surgery 1 - Military pathway only

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<tbody>
<tr>
<td>2</td>
<td>20 ECT Credits</td>
<td>5 days</td>
<td>USWP, MSPE, Essay</td>
<td>Students will learn to apply the principles of extended resuscitation and damage control surgery. These are techniques developed to minimise the complications seen following major trauma, having an acute effect upon the patient's immune system. The students will also learn the details of complications following major injuries such as multiple organ failure and the current approach to intensive Care Management.</td>
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### PMMO7 Health Research Methods and dissertation preparation

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<tbody>
<tr>
<td>2</td>
<td>10 ECT Credits</td>
<td>3 days</td>
<td>Proposal suitable for a dissertation</td>
<td>This module prepares the student to undertake a clinical audit, service review, literature review/systematic review or health services research project suitable for a dissertation.</td>
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## The Award and Teaching Schedule

This programme is only available Part-time. Students will normally take 18 months to complete Part One and a further 12 months to complete Part Two. This is a modular Masters scheme, consisting of Part One (totalling 120 credits) and Part Two (60 credits). Completion of Part One with 120 credits will result in the award of Higher Education Postgraduate Diploma in Trauma Surgery for students who wish to exit at this point. The 18 months for Part One has been decided to fit into the career pathway and ensure that students are unable to complete due to competing pressures.

Please see our website for further information at www.medicine.swansea.ac.uk

## How to Apply

Online applications can be made by accessing www.swansea.ac.uk/applyonline

Application forms can be obtained from:

Postgraduate Admissions Office,
Swansea University, Singleton Park,
Swansea SA2 8PP,
Tel: +44(0)1792 295358

Programme Director: Mr Ian Pallister

To discuss the programme, Telephone: Ceri Davies, Programme Co-ordinator, MSc Trauma Surgery on +44(0)1792 703904 or Email: c.l.davies@swansea.ac.uk

**QUOTE FROM PUBLISHED ARTICLE BMJ CAREERS 12 JANUARY 2008**

In some cases you find that the knowledge and skills the MSc equips you with will outstrip those of more senior colleagues. The tutors are approachable and genuinely interested in all of the candidates developing their individual practice as well as passing the modules. There is a focus on teaching others the skills and concepts that we learn.
Introduction

Trauma care has evolved beyond recognition in recent years. The evolution of Critical Care, refinements in operative techniques, implant development and basic science research, have all played their part in the fragmentation of trauma care into a multi-disciplinary field. Morriston Hospital is one of only 7 centres in the United Kingdom housing all surgical specialities required to provide comprehensive care for trauma patients, and hence is the natural home for an MSc in Trauma Surgery. The shortening of medical training is placing greater emphasis upon post-graduate education. A Masters Degree embracing the principle surgical disciplines involved in UK Trauma care aims to set new standards in this field and lead into high quality research.

This innovative part-time programme commenced in September 2005 and has been expanded to include a new Military Surgery pathway, in association with the Academic Department of Military Surgery and Trauma (ADMST), Royal Centre for Defence Medicine, Birmingham and associated military facilities. The MSc Trauma Surgery (Military) aims to prepare Armed Forces Surgical Trainees for their future deployed role. All students complete the first four modules (70 credits) then those students on the military pathway will undertake two 20 credit Military Surgery modules. These modules will be delivered at the Academic Department of Military Surgery (ADMST), Royal Centre for Defence Medicine Birmingham and associated military facilities. All students will then complete the Health Research Methods and preparation for dissertation module.

Teaching and Learning Methods

The scheme is offered on a part-time basis, with candidates attending all-day education sessions at the School of Medicine, Morriston Hospital, Swansea, on a block basis. Self-directed learning using Blackboard to help direct pre-reading is essential. This core factual knowledge will be built upon with formal lectures and group discussions. This will enable students to explore salient points and allow knowledge to be placed in context, both with respect to clinical and research considerations.

Trauma surgery is a practical discipline, and much of the educational sessions will be given to Moulage scenarios and surgical skills simulations. These methods will be familiar to candidates, but the MSc programme will weave these experiences together into Moulage skills practicals. The experience gained in these simulations will cement the factual knowledge acquired, with its clinical application. Assessment in the clinical modules will be built around the development and demonstration of strategic thinking, with written assessment of core knowledge and its application in unseen written papers (USWP) and Moulage skills practical examinations (MSPE). Essays and portfolio preparation will supplement these core assessments.

Who is the Programme for?

MSc Trauma Surgery

Applications are invited from those pursuing a career in Trauma and Orthopaedic, Burns and Plastic, or Maxillo-facial surgery. Candidates for the programme must have obtained (or nearly completed) MRCS or equivalent (for Maxillo-facial surgery candidates), have ATLS and must be able to demonstrate a track record clearly indicating the intention to pursue a career in one of the above specialities.

MSc Trauma Surgery (Military)

For the Military pathway candidates will have obtained MRCS or equivalent and have ATLS and BATLS (Battlefield Trauma Life Support). The Military pathway applicants will be pursuing a career in surgical discipline within the Military. Those trainees in Trauma and Orthopaedics will be able to pursue the unmodified MSc Trauma Surgery. Military surgical trainees pursuing careers in General, Burns and Plastic or Maxillo-facial surgery will only be considered on recommendation of the Defence Consultant Advisors from the Armed Forces.

All applications will include a structured CV in order to assess the clinical experience and career pathway. Two references from Consultants in the relevant field of interest will be used to confirm clinical experience, career pathway as well as academic ability.

A limited number of Bursaries towards fees are available within the University, to assist candidates meet the programme fees. Details of how to apply will be given to successful applicants. Bursaries apply to EU/UK applicants only.

Modular Scheme

Please note that all modules detailed in this brochure are at postgraduate (M) level. The programme commences in October each year. All shortlisted applicants are interviewed, these interviews are scheduled for April and June each year and are competitive. All shortlisted applicants are required to produce a short piece of written work prior to interview.

Programme Aims

Upon successful completion of the Taught Component of the programme (Part 1), candidates should be able to:

- Critically evaluate the principles and relevant theory of Trauma Surgery, in relation to resuscitation, critical care, immediate life saving surgery and reconstructive surgery allied with the process of healing which underpin these;
- Critically review the skills to co-ordinate and, where appropriate, deliver or lead the management of the trauma patient from injury to recovery;
- Examine the evolution of Trauma Surgery and forecast possible perspectives on future developments;
- Discuss the knowledge, skills and competencies that are necessary, in conjunction with appropriate advice and support, to undertake their own research;
- Design an outline research protocol, identifying an appropriate research method and method of analysis for a health care research project.

Upon completion of the MSc Trauma Surgery and MSc Trauma Surgery (Military), the candidate should be able to produce a dissertation that demonstrates the student’s ability to:

- Formulate a clear project question with relevant aims and objectives;
- Critically evaluate and discuss health service research, health service review and clinical audit methodology;
- Critically evaluate and discuss the role of literature review and systematic reviews for the development of medical and healthcare knowledge;
- Select and use the most appropriate method/approach for the development of medical and healthcare knowledge;
- Critically analyse and discuss rigour, validity and reliability in healthcare projects.