CHIR903
Clinical Chiropractic 3
S1 Day 2015
Dept of Chiropractic

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http://unitguides.mq.edu.au/unit_offerings/48853/unit_guide/print
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Tutor
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Other
Aron Downie
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Credit points
4

Prerequisites
CHIR892

Corequisites

Co-badged status

Unit description
This unit has three aims: 1. The unit focuses on developing basic proficiency in Gonstead manual techniques and further developing proficiency in Diversified manual techniques. It covers indications and contraindications to manipulation and includes the clinical applications of these techniques. 2. The unit introduces students to the subject of electrophysical therapy: biophysical principles, dosimetry, indications for use, contra-indications for use, precautions, dangers and risks associated with use. A multidisciplinary and evidence-based approach to rehabilitation including functional restoration, pain and psychological management will be emphasised. 3. The unit provides an introduction to the assessment and management of musculoskeletal sports injuries within a chiropractic setting in Australia. Students will learn the basic principles of sports medicine and the regulatory framework within which sports injury management operates. A multidisciplinary team-based approach to the management of sports injuries will be emphasised.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at http://students.mq.edu.au/student_admin/enrolmentguide/academicdates/
Learning Outcomes

1. The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.

2. The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

3. A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.

4. The ability to choose and apply clinically appropriate electrophysical therapy.

5. The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

6. Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

General Assessment Information

ASSIGNMENT EXTENSIONS AND PENALTIES

All assignments are to be handed in by the due date. Late submissions without prior approval by the unit convenor will incur a penalty at the rate of 20% of the mark for the assignment for each week (or part thereof) the assignment is late up to a maximum of 40%. Assignments submitted after this period (i.e. greater than 2 weeks late) may not be accepted.

Extensions to the due date for an assignment are at the discretion of the unit convenor. A request for an extension must be submitted in writing to the unit convenor prior to the due date for the assignment. It is the responsibility of the student to prove to the convenor that there has been unavoidable disruption and that this disruption affected preparation of the assignment.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technique Assignment</td>
<td>10%</td>
<td>Various</td>
</tr>
<tr>
<td>EPT Practical exam</td>
<td>0%</td>
<td>Week 6</td>
</tr>
</tbody>
</table>

http://unitguides.mq.edu.au/unit_offerings/48853/unit_guide/print
<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gonstead Spot Test</td>
<td>10%</td>
<td>Week 6</td>
</tr>
<tr>
<td>Assignment</td>
<td>10%</td>
<td>Week 8</td>
</tr>
<tr>
<td>Diversified &amp; Sports Med OSCE</td>
<td>20%</td>
<td>Week 13</td>
</tr>
<tr>
<td>Gonstead OSCE</td>
<td>20%</td>
<td>Week 13</td>
</tr>
<tr>
<td>Theory Exam</td>
<td>30%</td>
<td>University examination period</td>
</tr>
</tbody>
</table>

**Technique Assignment**

Due: **Various**  
Weighting: **10%**

- TA1: 2.5%  
- TA2: 2.5%  
- TA3: 2.5%  
- TA4: 2.5%

This Assessment Task relates to the following Learning Outcomes:

- The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

**EPT Practical exam**

Due: **Week 6**  
Weighting: **0%**
Compulsory pass

This Assessment Task relates to the following Learning Outcomes:

• The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.

• The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

• A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.

• The ability to choose and apply clinically appropriate electrophysical therapy.

Gonstead Spot Test
Due: Week 6
Weighting: 10%

Practical assessment

This Assessment Task relates to the following Learning Outcomes:

• The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.

• The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

Assignment
Due: Week 8
Weighting: 10%

500 word written assignment

This Assessment Task relates to the following Learning Outcomes:

• A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to
dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.

- Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

**Diversified & Sports Med OSCE**

*Due: Week 13*

*Weighting: 20%*

**Practical assessment**

This Assessment Task relates to the following Learning Outcomes:

- The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

**Gonstead OSCE**

*Due: Week 13*

*Weighting: 20%*

**Practical assessment**

This Assessment Task relates to the following Learning Outcomes:

- The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

**Theory Exam**

*Due: University examination period*

*Weighting: 30%*

3 hour closed book written examination

This Assessment Task relates to the following Learning Outcomes:
The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Delivery and Resources

CLASSES

- Number and length of classes per week:
  - 3 x 1 hour lectures
  - 1 x 1 hour + 1 x 2 hour Gonstead tutorials
  - 2 x 1 hour Diversified tutorials
  - 1 x 1 hour EPT/Sports Medicine tutorial

- The timetable for classes can be found on the University web site at:
  http://www.timetables.mq.edu.au/

  **ONLY GONSTEAD AND EPT TUTORIALS WILL RUN IN WEEK 1.**

  ALL OTHER TUTORIALS START IN WEEK 2.

Please check iLearn for announcements.

- Tutorial attendance/participation is required and will be factored into the final grade.

TEXT


SUGGESTED READING


4. Anrig C, Plaugher G. Pediatric Chiropractic 2nd Ed LWW
6. Managing Low Back Pain: Kirkaldy Willis
7. Principle and Practice of Chiropractic: Haldeman
9. Chiropractic Management of Spine related disorders: Gatterman
10. Chiropractic Technique: Bergman & Lawrence
11. Therapeutic Exercise for Spinal Segmental Stabilization in Low Back Pain: Richardson and Jull

The unit is an internal offering.

- Students are expected to attend lectures and tutorials (tutorial minimum attendance 85%)
- iLearn is not a substitute for lecture attendance. Complex concepts are discussed as a group within the lecture format.
- Video assignments will be submitted by email.
- Written assignments will be submitted by Turnitin.

**Learning and Teaching Activities**

**Lecture**
Lecture/class discussion

**Tutorial**
Demonstration/tutorial

**Spot test**
In class practicum assessment
Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central. Students should be aware of the following policies in particular with regard to Learning and Teaching:


In addition, a number of other policies can be found in the Learning and Teaching Category of Policy Central.

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: [https://students.mq.edu.au/support/student_conduct/](https://students.mq.edu.au/support/student_conduct/)

Results

Results shown in iLearn, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au.

CHIROPRACTIC LABS RULES

E5A LEVEL 3
1. All students will display a professional and responsible attitude towards fellow students, staff and equipment of the Department of Chiropractic.

2. Observe the “No Food, Drink or Smoking” rule in the Laboratories.

3. Hand washing: please wash your hands before touching another person. Wash your hands frequently throughout the practicals. Wash your hands before you leave the laboratories.

4. Report an incident or accident during class to the Tutor immediately.

5. Ensure that you have a completed “Chiropractic Skills Participation Assessment” (SPA). A dynamically updated database of your SPA clearance status (or contra-indication status) will be available to technique teaching staff.

6. Report to the Convener/Tutor immediately all incidents or factors which may influence your ability to participate in classes.

7. On first entering this laboratory please make yourself aware of the location of the public toilets, the emergency exits and the evacuation collection points. This information can be found on charts located in the hallway of E5A level 3.

8. Do not practise unsupervised. The practice of chiropractic procedures must occur only under the supervision of a qualified tutor. Use the supervised practice sessions for additional practice.

9. Chiropractic adjusting must only occur with the permission of a tutor and under direct supervision.

10. Equipment cleaning/preparation procedure:
   - On entering the lab, students are to wipe down table and pillow with the single-use cleaning wipe from dispensers placed around the lab.
   - Place the used wipe in a bin before teaching/demonstration begins.
   - Ensure that you cover the chiropractic table with a towel, including a face piece before any use.

11. Bring a towel to all classes. A face cloth is a good option for the head piece. Observe the Tutorial Dress Code for every Technique Tutorial: shorts (not denim) and patient gown (shirt that opens in back) such that a fellow student will be able to make ‘skin-on-skin’ contact on relevant landmarks from the second sacral tubercle and above as well as the proximal 1/3 of the thigh and below.
12. Shoes and belts are to be removed and stowed away before using the chiropractic tables.

13. Maintain open pathways: Place all personal items in the cubicles so that the floor, tables and counter tops are clear of debris. Also keep chairs and other equipment clear from pathways and exits.

14. Do not operate the Audio Visual Equipment, or the monitor volume control. Only Tutors are permitted to do so.

15. Return the Chiropractic tables to their intended location at the end of your class. (Seek permission from the Tutor if you need to move a table during class.)

16. Restore the Laboratory to a clean and orderly state at the completion of each tutorial. Trash should be placed in the rubbish bins and equipment returned to its original location.

17. Return all equipment to its rightful location after use.

18. Please report anything that needs fixing e.g. ripped carpet, broken equipment, loose wiring etc. to the lab supervisor or to Chiropractic administration (sci.chiro-adm@mq.edu.au).

19. First Aid Boxes are located in all skills labs i.e. E5A310, 320, 330 and the C5C 365 Staff Tea Room. Please report to Chiropractic administration (sci.chiro-adm@mq.edu.au) any items that need replacing [MCR3]. The first aid officers for the Department of Chiropractic are Sophie Lennan: phone 9850 2300 email sophie.lennan@mq.edu.au and Christina Cassidy: phone 9850 6389 email christina.cassidy@mq.edu.au

20. In case of evacuation:

   • Follow the Emergency Procedures displayed in the hallway of E5A level 3 in the event of an emergency. Some important telephone numbers to note:
     
     ◦ Emergency 9999
     ◦ Security 7112 (All Security Officers are trained First Aiders)

   • When you hear the intermittent ‘beep beep’ siren (Alert Phase)
     
     ◦ Remain calm
     ◦ Stand-by to evacuate the building
     ◦ Start to shut off electrical points and close windows if safe to do so
• When you hear the ‘whoop whoop’ (Evacuation Phase):
  ◦ Leave the lab, taking only personal belongings
  ◦ Walk, do not run, to the nearest safe EXIT – turn right out of the lab and exit down the stairs
  ◦ Do NOT use the lifts
  ◦ Proceed to the assembly point (refer to placards in the building) – between E3A and E3B
  ◦ Return to the building only when instructed by a Warden or Security or the emergency service attending the incident declares that the building is safe for re-entry

• 21. Preparing for a potential threat

22. Reacting to a potential threat 1. If it is safe to do so, leave the area 2. If it is not safe to do so, find a place to hide.

Student Support
Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

Learning Skills
Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

• Workshops
• StudyWise
• Academic Integrity Module for Students
• Ask a Learning Adviser

Student Enquiry Service
For all student enquiries, visit Student Connect at ask.mq.edu.au
Equity Support
Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

IT Help
For help with University computer systems and technology, visit http://informatics.mq.edu.au/help/. When using the University’s IT, you must adhere to the Acceptable Use Policy. The policy applies to all who connect to the MQ network including students.

Graduate Capabilities
PG - Discipline Knowledge and Skills
Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

Learning outcomes
- The ability to perform spinal adjustments and mobilisations with the appropriate psychomotor skills at a clinically safe and competent level.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- The ability to choose and apply clinically appropriate electrophysical therapy.
- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Assessment tasks
- Technique Assignment
- EPT Practical exam
Learning and teaching activities

- Lecture/class discussion
- Demonstration/tutorial
- Written Assignment
- End of semester exam

PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

Learning outcomes

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

Assessment tasks

- Technique Assignment
- Assignment
- Theory Exam

Learning and teaching activities

- Lecture/class discussion
- Demonstration/tutorial
- Written Assignment
PG - Research and Problem Solving Capability

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

**Learning outcomes**

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- The ability to choose and apply clinically appropriate electrophysical therapy.
- Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

**Assessment tasks**

- Technique Assignment
- Assignment

**Learning and teaching activities**

- Demonstration/tutorial
- Assignment
- Written Assignment
- End of semester exam

PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:
Learning outcomes

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- The ability to choose and apply clinically appropriate electrophysical therapy.
- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

Assessment tasks

- EPT Practical exam
- Gonstead Spot Test
- Diversified & Sports Med OSCE
- Gonstead OSCE

Learning and teaching activities

- Demonstration/tutorial
- In class practicum assessment
- Assignment
- End of semester practicum

PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues.

This graduate capability is supported by:

Learning outcomes

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static
palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.

- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.
- Proficiency in research skills at the level of open inquiry within open guidelines as part of a research skills development (RSD) progression.

**Assessment task**

- EPT Practical exam

**Learning and teaching activity**

- Lecture/class discussion
- Demonstration/tutorial
- Assignment

**PG - Capable of Professional and Personal Judgment and Initiative**

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

**Learning outcomes**

- A thorough knowledge of the clinical anatomy, biomechanics, and pathomechanics for all joints of the body in order to: a) Understand the biomechanical effects of an adjustment or mobilisation and the indications for their use; b) Perform postural analysis in relation to dysfunction; c) Perform the relevant orthopaedic testing, motion palpation, static palpation, indications and contraindication testing for each technique and methods of modification to suit special populations/conditions.
- The ability to construct and apply an appropriate consultation, examination and management of acute musculoskeletal peripheral joint injuries commonly encountered by practitioners in the field.

**Assessment tasks**

- Technique Assignment
- EPT Practical exam
- Assignment
Learning and teaching activities

- Demonstration/tutorial
- Assignment
- Written Assignment

Achieving a pass in CHIR903

The relative weighting of the two parts of the assessment are as follows:

Part A (Theory): 40% of total mark
i. End of semester written exam 30%
ii. Written assignment 10%

Part B (Practical): 60% of total mark
i. EPT practical exam  Compulsory pass
ii. Gonstead Spot test 10%
iii. Diversified & Sports Med OSCE 20%
iv. Gonstead OSCE 20%
v. Technique assignments (4 x 2.5%) 10%

GRADES

HD  High Distinction  Denotes work of outstanding quality
D  Distinction  Denotes work of superior quality
Cr  Credit  Denotes work of predominantly good quality
P  Pass  Denotes work of satisfactory quality
F  Fail  Denotes a candidate has failed to complete unit satisfactorily

Achievement of grades will be based on the following criteria:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass (P)</td>
<td>A minimum raw overall mark of 50%</td>
</tr>
<tr>
<td></td>
<td>AND a passing grade in the EPT practical exam</td>
</tr>
<tr>
<td></td>
<td>AND a passing grade in EACH of the final technique OSCE’s</td>
</tr>
</tbody>
</table>
Credit (Cr)  A minimum raw overall mark of 65%
AND a passing grade in the EPT practical exam
AND a passing grade in EACH of the final technique OSCE’s

Distinction (D)  A minimum raw overall mark of 75%
AND a passing grade in the EPT practical exam
AND a passing grade in EACH of the final technique OSCE’s

High Distinction (HD)  A minimum raw overall mark of 85%
AND a passing grade in the EPT practical exam
AND a passing grade in EACH of the final technique OSCE’s

ASSESSMENT FEEDBACK
Feedback for each assessment task (except the OSCEs and end of semester written exam) will be provided as soon as is practically possible after the assessment task is performed or submitted. For the Spot Test and Technique assignments (TA 1-4), feedback will be given as soon as possible after each test and for the written assignment due in week 8, feedback will be given by week 12.

IMPORTANT NOTES
Attendance is expected at lectures and tutorials. 85% attendance is the expected requirement for tutorials. Attendance will be recorded and will be taken into consideration when compiling a student’s final grade for the unit.

Pass the EPT component of CHIR903
The EPT component of this unit has a PASS/FAIL grade attached to it. To pass CHIR 903, a student must pass the EPT component. To pass the EPT component a student needs to achieve a minimum mark of 50% in the practical exam held in week 6. If a student does not achieve the minimum mark in the week 6 exam they will be offered a supplementary EPT practical exam in week 7. If the student does not achieve the minimum mark in the supplementary exam in week 7 they will be deemed to have failed the EPT component and therefore the unit as a whole.

Pass the technique component of CHIR903
Passing the technique portion of this unit means:
  o  Passing the unit as a whole
  o  Passing each of the final technique OSCE’s (Gonstead & Diversified)
If the student achieves an overall pass, but does not pass one or more of the technique OSCE’s, they may be offered a supplementary OSCE. Supplementary OSCE(s) will be held during the written examination period for semester one. The highest grade achieved in this scenario will be a PASS grade regardless of the student’s overall score in the unit.