Unit Outline

MEDI1000 Foundations of Biomedical Science
Semester 1, 2016

<table>
<thead>
<tr>
<th>Unit study package code:</th>
<th>MEDI1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode of study:</td>
<td>Internal</td>
</tr>
<tr>
<td>Tuition pattern summary:</td>
<td>Note: For any specific variations to this tuition pattern and for precise information refer to the Learning Activities section. Lecture: 1 x 2 Hours Weekly Science Laboratory: 1 x 2 Hours Weekly This unit does not have a fieldwork component.</td>
</tr>
<tr>
<td>Credit Value:</td>
<td>25.0</td>
</tr>
<tr>
<td>Pre-requisite units:</td>
<td>Nil</td>
</tr>
<tr>
<td>Co-requisite units:</td>
<td>Nil</td>
</tr>
<tr>
<td>Anti-requisite units:</td>
<td>Nil</td>
</tr>
<tr>
<td>Result type:</td>
<td>Grade/Mark</td>
</tr>
<tr>
<td>Approved incidental fees:</td>
<td>Information about approved incidental fees can be obtained from our website. Visit fees.curtin.edu.au/incidental_fees.cfm for details.</td>
</tr>
<tr>
<td>Unit coordinator:</td>
<td></td>
</tr>
<tr>
<td>Title:</td>
<td>Mr</td>
</tr>
<tr>
<td>Name:</td>
<td>Adrian Paxman</td>
</tr>
<tr>
<td>Phone:</td>
<td>+618 9266 4316</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:A.Paxman@curtin.edu.au">A.Paxman@curtin.edu.au</a></td>
</tr>
<tr>
<td>Location:</td>
<td>Building: 308 - Room: 203</td>
</tr>
<tr>
<td>Teaching Staff:</td>
<td></td>
</tr>
<tr>
<td>Name:</td>
<td>Dr Brian Brestovac</td>
</tr>
<tr>
<td>Phone:</td>
<td>9266 7474</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:B.Brestovac@exchange.curtin.edu.au">B.Brestovac@exchange.curtin.edu.au</a></td>
</tr>
<tr>
<td>Location:</td>
<td>Building: 308 - Room: 201b</td>
</tr>
<tr>
<td>Name:</td>
<td>Dr Paul Costantino</td>
</tr>
<tr>
<td>Phone:</td>
<td>9266 7485</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:P.Costantino@curtin.edu.au">P.Costantino@curtin.edu.au</a></td>
</tr>
<tr>
<td>Location:</td>
<td>Building: 308 - Room: 222</td>
</tr>
<tr>
<td>Name:</td>
<td>Dr Alina Miranda</td>
</tr>
<tr>
<td>Phone:</td>
<td>9266 7518</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:Alina.Miranda@curtin.edu.au">Alina.Miranda@curtin.edu.au</a></td>
</tr>
<tr>
<td>Location:</td>
<td>Building: 308 - Room: 202</td>
</tr>
<tr>
<td>Administrative contact:</td>
<td></td>
</tr>
<tr>
<td>Name:</td>
<td>Betty Verhelst</td>
</tr>
<tr>
<td>Phone:</td>
<td>+618 9266 3328</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:B.Verhelst@curtin.edu.au">B.Verhelst@curtin.edu.au</a></td>
</tr>
<tr>
<td>Location:</td>
<td>Building: 400 - Room: 205</td>
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</tbody>
</table>
Acknowledgement of Country
We respectfully acknowledge the Indigenous Elders, custodians, their descendants and kin of this land past and present.

Syllabus
This unit is an introduction to the theory and application of disciplines in the biomedical sciences: microbiology, immunology, histopathology, haematology, biochemistry and molecular genetics. Themes include the basic theory of the cellular and molecular components that form the foundations of biomedical science, the investigation of disease and infectious agents, occupational health considerations, the use of specialized equipment and testing of biological samples in a professional manner. The role and function of medical and research laboratories will also be explored.

Introduction
Welcome to the Foundations of Biomedical Science unit!

The area of biomedical science is an exciting and fascinating field for anyone interested in biological science, medicine or laboratory work. This unit will introduce you to biomedical science including the theory, the significance and the application of activities performed in diagnostic or medical research laboratories. You will be provided with the opportunity to develop Curtin graduate attributes both as an independent learner and as part of a team with other students and the University staff involved in Foundations of Biomedical Science. You will be strongly encouraged to “think” and “act” like a professional Biomedical Scientist throughout this unit. Students taking this unit include those studying courses in Laboratory Medicine/Medical Science, Nutrition, Human Biology, Oral Health Therapy and Molecular Genetics and Biotechnology however the material is applicable to any Health Science or Biology degree.

Unit Learning Outcomes
All graduates of Curtin University achieve a set of nine graduate attributes during their course of study. These tell an employer that, through your studies, you have acquired discipline knowledge and a range of other skills and attributes which employers say would be useful in a professional setting. Each unit in your course addresses the graduate attributes through a clearly identified set of learning outcomes. They form a vital part in the process referred to as assurance of learning. The learning outcomes tell you what you are expected to know, understand or be able to do in order to be successful in this unit. Each assessment for this unit is carefully designed to test your achievement of one or more of the unit learning outcomes. On successfully completing all of the assessments you will have achieved all of these learning outcomes.

Your course has been designed so that on graduating we can say you will have achieved all of Curtin’s Graduate Attributes through the assurance of learning process in each unit.

<table>
<thead>
<tr>
<th>On successful completion of this unit students can:</th>
<th>Graduate Attributes addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Categorize and explain characteristics of microorganisms and relate their interactions with humans and the environment</td>
<td></td>
</tr>
<tr>
<td>2. Describe and explain the basic components and function of the human immune system, blood and selected tissues</td>
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<tr>
<td>3. Propose and evaluate measures for the prevention of the spread of pathogens in laboratory and clinical settings</td>
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<tr>
<td>4. Perform selected laboratory techniques competently and safely</td>
<td></td>
</tr>
</tbody>
</table>
Curtin’s Graduate Attributes

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apply discipline knowledge</td>
<td>Use analytical skills to solve problems</td>
</tr>
<tr>
<td>Communication skills</td>
<td>Technology skills</td>
</tr>
<tr>
<td>International perspective</td>
<td>Cultural understanding</td>
</tr>
<tr>
<td>Thinking skills</td>
<td>Information skills</td>
</tr>
<tr>
<td>(value the perspectives of others)</td>
<td>(confidence to investigate new ideas)</td>
</tr>
<tr>
<td>Learning how to learn</td>
<td>Learning how to learn</td>
</tr>
<tr>
<td>(apply principles learnt to new situations)</td>
<td>(confidence to tackle unfamiliar problems)</td>
</tr>
<tr>
<td>Professional Skills</td>
<td>(work independently and as a team)</td>
</tr>
<tr>
<td>(plan own work)</td>
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</tbody>
</table>

Find out more about Curtin’s Graduate attributes at the Office of Teaching & Learning website: ctl.curtin.edu.au

Learning Activities

Learning outcomes listed above will be achieved through an integrated program of lectures and laboratory sessions.

**Lectures** will provide core content in this unit and will be complemented by Powerpoint slides on Blackboard. Recordings of lecture sessions will be available as iLectures to give students additional access for revision. Where possible, lectures may be interactive with students encouraged to ask questions. Students can provide feedback about their understanding of the material during lectures. This allows lecturing staff to customize lecture delivery by gauging areas where students would benefit from additional detail or expansion of concepts. Student attendance at lectures is expected.

**Laboratory sessions** will comprise a series of experiments and exercises in appropriate biomedical laboratory facilities particularly relevant to the discipline being considered. The practical exercises will illustrate concepts discussed in lectures and give students an opportunity to gain hands-on practical skills in important aspects of laboratory medicine. Student attendance at laboratory sessions is compulsory.

**Tutorial sessions** as optional sessions may be scheduled near the end of semester if there is sufficient student interest. These optional tutorial sessions may discuss the results of practical exercises and provide students with the opportunity to clarify concepts raised in the unit.

**The UniPASS Program** has become available for this unit. This is an excellent program and ALL STUDENTS in the unit are very strongly encouraged to use this learning activity. It is expected that the UniPASS program will help all levels of students to improve their understanding and performance in this unit. Please see below for additional information about the UniPASS program:

**UniPASS (University Peer Assisted Study Success)**
You are lucky enough to have UniPASS support in this unit. Regular attendees at UniPASS can improve their grades by over 10%! That could mean improving from a Fail to a Pass, or a Credit to a Distinction, or a Distinction to a High Distinction! No matter where you start, UniPASS can help you ‘level-up’ and maximise your grades.

**UniPASS is:**
- Weekly structured, informal, study groups
- Led by a successful senior student
- Review unit content and actively embed concepts and ideas
- Improve grades and study skills
- Interactive study session with friends or make new ones — connect to others in your course!
- Free!

**UniPASS is NOT:**
- A replacement for lectures or tutorials – you must attend your scheduled lectures and laboratory classes.
- A rote learning environment or one-on-one tutoring
Why go to UniPASS?

- **Save time**: 1 hour of UniPASS 3 hours studying by yourself!
- 2015 regular attendees averaged an **12% grade increase**
- Opportunity to **make new friends**
- Your facilitator has aced this unit, they have **great tips and tricks**!
- Learn **study skills** that will help with ALL your units
- Attend 5 times or more and get invited to a **special revision session** at the end of semester!
- You may regret it if you don’t go: 59% of students surveyed who didn’t go, said they wished they had gone regularly!*

Where do I sign up?!

- No registration – just turn up!
- Timetables will be posted on Blackboard by the end of week 1, sessions commence in week 2
- Follow the UniPASS link from your Blackboard unit list to find the room number and time
- Choose a session time and come along (bring a friend!) Be early – places are limited

**Student comments on the positive aspects of UniPASS: (from “UniPASS student survey, 2015 S2)**

“Great relaxed atmosphere and a very worthwhile class to attend”

“...very well structured and provided a different, more interesting and involved way of learning the content”

“It promotes interprofessional practice, builds cultural competency and members learn from their colleagues”

“Encourages discussion so that you are sure you understand the concepts”

“Great way to meet other students and a great forum to ask questions and expand your knowledge”

“Increase grades and gain more holistic knowledge of unit”

**Questions?** Contact Adrian or email **Unipass unipass@curtin.edu.au**
Learning Resources
Recommended texts

You do not have to purchase the following textbooks but you may like to refer to them.

- **This unit does not have an essential textbook.** A single text covering all discipline areas in this unit is not available at this point. **STUDENTS ARE STRONGLY ADVISED TO ATTEND THE UNIT ORIENTATION SESSION BEFORE PURCHASING ANY TEXTBOOKS FOR THIS UNIT.** During this orientation session students will be given an indication of the merits of the texts listed below and the suitability of these texts for the requirements of different students.

  Students may find it helpful to refer to a text that provides an introduction to microbiology. Three textbooks that provide this information are listed below (*Burton's Microbiology* or *Bailey & Scott's Diagnostic Microbiology* or *Prescott's Microbiology*).

  Some students may also wish to refer to a text that provides an introduction to the other (non microbiology) disciplines. If you would like recommendations for such a textbook then please email the Unit Coordinator.

- **Engelkirk and Engelkirk (2014) Burton's Microbiology for the Health Sciences. 10th edition.** Lippincott Williams & Wilkins PA. Or other edition. (A relatively simple introduction to the area of microbiology. This text may be useful to Oral Health Therapy, Human Biology Preclinical, Nutrition, Sciences & Engineering students.)
  
  (ISBN/ISSN: 9781451186345)

- **Patricia M. Tille (2014) Bailey & Scott’s Diagnostic Microbiology. 13th edition. Mosby. St Louis.** Or other edition. (A detailed, medical based, microbiology text that might be useful for subsequent units taken by Laboratory Medicine students.)
  
  (ISBN/ISSN: 978-0323083300)

  
  (ISBN/ISSN: 978-1259281594)
Assessment

Assessment schedule

<table>
<thead>
<tr>
<th>Task</th>
<th>Value %</th>
<th>Date Due</th>
<th>Unit Learning Outcome(s) Assessed</th>
</tr>
</thead>
</table>
| Theory test               | 15 percent | Week: 7  
Day: On the day that you have booked  
Time: At the time that you have booked | 1,3 |
| Lab test                  | 20 percent | Week: Week 6  
Day: On the day of your normal lab session  
Time: At the time of your normal lab session | 1,3,4 |
| Final lab test            | 20 percent | Week: 14  
Day: Friday  
Time: 8:00-10:00am (in the LECTURE timeslot and venue) | 1,3,4 |
| Final theory examination  | 45 percent | Week: Examination Fortnight  
Day: Please check exam timetable.  
Time: Please check the exam timetable. | 1,2,3,4 |

Detailed information on assessment tasks

1. **eTest.**

Your “eTest” will be in Week 7 and will cover the first 3 weeks of lecture material in this unit. It will be run through the “Assessment Centre” located in the Library. It will consist of 30 multi-choice questions. You will have 40 minutes to complete the test. This is a closed book assessment.

You must make your own booking for this assessment.

You must have made your booking before the registration window closes.

Students should receive a notification from the Janison system when booking registration opens. You should then promptly book your eTest. It is the student’s responsibility to make their eTest booking and to then attend that booking.

Students that need help to alter their FBMS eTest booking can contact the FBMS TSO, Betty Verhelst. Note that changes to bookings are not always possible.

This assessment will contribute to 15% of your overall unit mark.

Please bring your student ID card with you to your eTest.

2. The first Lab Test (Laboratory Test / Practical Test / Prac Test) will be laboratory based and done in your laboratory class in Week 6.

It will be microbiology focused and consist of performing a gram stain of bacteria, viewing the gram stain using a microscope that you will set up appropriately, reporting on that gram stain, plating out for single
colonies and performing an aseptic dilution. These manipulations will be taught in the first 4 laboratory sessions of this unit.

Students must adhere to safe laboratory practice at all time in the laboratory, including during Lab Tests. If a student is considered to be operating unsafely during a Lab Test then that student may be asked to leave the laboratory immediately and may subsequently be awarded a mark of zero for that assessment.

This assessment will contribute to 20% of your overall unit mark.

Please bring your student ID card with you to your Lab Test.

3. The third assessment is also a laboratory-based assessment and will focus primarily on the laboratory work done after Week 6. This will include methods based on the immunology, haematology, histopathology, biochemistry and molecular biology components of this unit.

The format of this assessment is NOT the same as the first Lab Test. The Final Lab Test will assess the information from the laboratory sessions but it is a “dry” theoretical test, not a “wet” or “hands on” test. The assessment will be held in the lecture venue, in the lecture time slot. Students will be permitted to bring their Laboratory Manual into the test. Please consult the second section of the laboratory manual for additional information about this assessment.

This assessment will contribute to 20% of your overall unit mark.

Please bring your student ID card with you to your Final Lab Test.

4. The final assessment task will be the final theoretical exam done during the examination period at the end of semester. It will focus on the lecture material after week 3 (that is the lecture material not tested in the eTest). It will be a 2 hour written exam and consist of multiple-choice and short answer questions.

This assessment will contribute to 45% of your overall unit mark.

Please bring your student ID card with you to your Final Theory Exam.

Pass requirements

Students are expected to complete all pieces of assessment. Students are expected to pass both the theoretical and laboratory components of the unit. Students must achieve an overall grade of at least 50% to pass the unit.

Students are expected to attend all laboratory classes. As a professional practice requirement, students are expected to contact the laboratory class supervisor where there are extenuating circumstances that prevent attendance. Students must provide supporting evidence for their absence. For example:

- Compassionate grounds (certificate from an appropriate Curtin counselor, minister of religion, medical practitioner or other appropriately qualified person).
- Medical grounds (certificate from a medical practitioner).
- Psychological grounds (certificate from a registered psychologist/psychiatrist).
- Other grounds of significance not listed.

Students are strongly encouraged to attend all lecture sessions for this unit.

Students should note that a mark of 50% or more in BOTH the theoretical AND practical component of the unit is required in order to secure a pass. Failure in any one area MAY result in an overall failure in this unit regardless of the total marks accrued. That is, a pass in the practical component but failure in the theory (or vice versa) MAY lead to a fail grade for the unit, even though the student’s total mark may exceed 50%.

Fair assessment through moderation
Moderation describes a quality assurance process to ensure that assessments are appropriate to the learning outcomes, and that student work is evaluated consistently by assessors. Minimum standards for the moderation of assessment are described in the Assessment and Student Progression Manual, available from policies.curtin.edu.au/policies/teachingandlearning.cfm

Late assessment policy
This ensures that the requirements for submission of assignments and other work to be assessed are fair, transparent, equitable, and that penalties are consistently applied.

1. All assessments students are required to submit will have a due date and time specified on this Unit Outline.
2. Students will be penalised by a deduction of ten percent per calendar day for a late assessment submission (e.g., a mark equivalent to 10% of the total allocated for the assessment will be deducted from the marked value for every day that the assessment is late). This means that an assessment worth 20 marks will have two marks deducted per calendar day late. Hence if it was handed in three calendar days late and given a mark of 16/20, the student would receive 10/20. An assessment more than seven calendar days overdue will not be marked and will receive a mark of 0.

Assessment extension
A student unable to complete an assessment task by/on the original published date/time (e.g., examinations, tests) or due date/time (e.g., assignments) must apply for an assessment extension using the Assessment Extension form (available from the Forms page at students.curtin.edu.au/administration/) as prescribed by the Academic Registrar. It is the responsibility of the student to demonstrate and provide evidence for exceptional circumstances beyond the student’s control that prevent them from completing/submitting the assessment task.

The student will be expected to lodge the form and supporting documentation with the unit coordinator before the assessment date/time or due date/time. An application may be accepted up to five working days after the date or due date of the assessment task where the student is able to provide an acceptable explanation as to why he or she was not able to submit the application prior to the assessment date. An application for an assessment extension will not be accepted after the date of the Board of Examiners’ meeting.

Deferred assessments
If your results show that you have been granted a deferred assessment you should immediately check your OASIS email for details.

Supplementary assessments
Supplementary assessments, if granted by the Board of Examiners, will have a due date or be held between 14/07/2016 and 14/07/2016. Notification to students will be made after the Board of Examiners’ meeting via the Official Communications Channel (OCC) in OASIS.

It is the responsibility of students to be available to complete the requirements of a supplementary assessment. If your results show that you have been granted a supplementary assessment you should immediately check your OASIS email for details.

Referencing style
The referencing style for this unit is Chicago.

More information can be found on this style from the Library web site: http://libguides.library.curtin.edu.au/referencing.

Copyright
© Curtin University. The course material for this unit is provided to you for your own research and study only. It is subject to copyright. It is a copyright infringement to make this material available on third party websites.
Academic Integrity (including plagiarism and cheating)

Any conduct by a student that is dishonest or unfair in connection with any academic work is considered to be academic misconduct. Plagiarism and cheating are serious offences that will be investigated and may result in penalties such as reduced or zero grades, annulled units or even termination from the course.

Plagiarism occurs when work or property of another person is presented as one’s own, without appropriate acknowledgement or referencing. Submitting work which has been produced by someone else (e.g. allowing or contracting another person to do the work for which you claim authorship) is also plagiarism. Submitted work is subjected to a plagiarism detection process, which may include the use of text matching systems or interviews with students to determine authorship.

Cheating includes (but is not limited to) asking or paying someone to complete an assessment task for you or any use of unauthorised materials or assistance during an examination or test.

From Semester 1, 2016, all incoming coursework students are required to complete Curtin’s Academic Integrity Program (AIP). If a student does not pass the program by the end of their first study period of enrolment at Curtin, their marks will be withheld until they pass. More information about the AIP can be found at: https://academicintegrity.curtin.edu.au/students/AIP.cfm

Refer to the Academic Integrity tab in Blackboard or academicintegrity.curtin.edu.au for more information, including student guidelines for avoiding plagiarism.

Information and Communications Technology (ICT) Expectations

Curtin students are expected to have reliable internet access in order to connect to OASIS email and learning systems such as Blackboard and Library Services.

You may also require a computer or mobile device for preparing and submitting your work.

For general ICT assistance, in the first instance please contact OASIS Student Support: oasisapps.curtin.edu.au/help/general/support.cfm

For specific assistance with any of the items listed below, please contact The Learning Centre: life.curtin.edu.au/learning-support/learning_centre.htm

- Using Blackboard, the I Drive and Back-Up files
- Introduction to PowerPoint, Word and Excel

Additional information

Enrolment

It is your responsibility to ensure that your enrolment is correct - you can check your enrolment through the eStudent option on OASIS, where you can also print an Enrolment Advice.

Student Rights and Responsibilities

It is the responsibility of every student to be aware of all relevant legislation, policies and procedures relating to their rights and responsibilities as a student. These include:

- the Student Charter
- the University’s Guiding Ethical Principles
- the University’s policy and statements on plagiarism and academic integrity
- copyright principles and responsibilities
- the University’s policies on appropriate use of software and computer facilities

Information on all these things is available through the University’s “Student Rights and Responsibilities” website at: students.curtin.edu.au/rights.
Student Equity

There are a number of factors that might disadvantage some students from participating in their studies or assessments to the best of their ability, under standard conditions. These factors may include a disability or medical condition (e.g. mental illness, chronic illness, physical or sensory disability, learning disability), significant family responsibilities, pregnancy, religious practices, living in a remote location or another reason. If you believe you may be unfairly disadvantaged on these or other grounds please contact Student Equity at eesi@curtin.edu.au or go to http://eesi.curtin.edu.au/student_equity/index.cfm for more information

You can also contact Counselling and Disability services: http://www.disability.curtin.edu.au or the Multi-faith services: http://life.curtin.edu.au/health-and-wellbeing/about_multifaith_services.htm for further information.

It is important to note that the staff of the university may not be able to meet your needs if they are not informed of your individual circumstances so please get in touch with the appropriate service if you require assistance. For general wellbeing concerns or advice please contact Curtin’s Student Wellbeing Advisory Service at: http://life.curtin.edu.au/health-and-wellbeing/student_wellbeing_service.htm

Recent unit changes

Students are encouraged to provide unit feedback through eVALUate, Curtin's online student feedback system. For more information about eVALUate, please refer to evaluate.curtin.edu.au/info/.

To view previous student feedback about this unit, search for the Unit Summary Report at https://evaluate.curtin.edu.au/student/unit_search.cfm. See https://evaluate.curtin.edu.au/info/dates.cfm to find out when you can eVALUate this unit.

Recent changes to this unit include:

The UniPASS program was rolled out for this unit in Semester 2 of 2015. Following on from the success of this program and due to the positive feedback from students the UniPASS program for FBMS has been expanded for Semester 1 in 2016, including an additional UniPASS facilitator. All students are strongly encouraged to make use of the online UniPASS as well as attending the facilitator lead face-to-face sessions.
<table>
<thead>
<tr>
<th>Week Number</th>
<th>Week Begin Date</th>
<th>Lecture</th>
<th>Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientation Week 22nd Feb</td>
<td></td>
<td>Biomedical Science 100 Unit Orientation</td>
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<td></td>
<td></td>
<td>Only attend one of these FBMS Unit Orientations</td>
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<td></td>
<td></td>
<td>Oral Health Therapy, Mol Gen &amp; Biotech</td>
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<tr>
<td></td>
<td></td>
<td>and any other student that can not attend the alternative session:</td>
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<tr>
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<td>Monday 22nd Feb in 307.103</td>
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<td>Human Biology, Laboratory Medicine</td>
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<tr>
<td></td>
<td></td>
<td>and any other student that can not attend the alternative session:</td>
<td></td>
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<td></td>
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<td>Tuesday 23rd Feb in 210.102</td>
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</tr>
<tr>
<td>1</td>
<td>29th Feb</td>
<td>Introduction to the Biomedical Sciences: role of the laboratory in diagnostic pathology. Basic requirements for Laboratory Safety. Introduction to Microbiology. (AP / PC)</td>
<td>Practical 1 Lab Orientation, Safety &amp; Techniques</td>
</tr>
<tr>
<td>3</td>
<td>14th Mar</td>
<td>An introduction to mycology, virology and parasitology. (BB)</td>
<td>Practical 3 Microbial Ubiquity &amp; Cultivation</td>
</tr>
<tr>
<td>4</td>
<td>21st Mar</td>
<td>No face-to-face lecture due to Friday public holiday. Use resources on Blackboard (from PC) to study: Control of microorganisms: the role of disinfection, sterilisation and antimicrobial chemotherapy. Asepsis and safe handling of microbes.</td>
<td>Practical 4 Bacterial Classification &amp; Identification</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Tuition free week</td>
<td></td>
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<tr>
<td>6</td>
<td>4th Apr</td>
<td>Host–microbe interactions. Host defences: non-specific defences. Foundations of immunology: the immune system and specific host defences (BB)</td>
<td>Practical Assessment at usual lab time and venue</td>
</tr>
<tr>
<td>7</td>
<td>11th Apr</td>
<td>Applied bioscience: microbiology of foods. Microbes and the environment. Microbial biotechnology (BB) Introduction to Haematology (AP)</td>
<td>Practical 6 Immunology</td>
</tr>
</tbody>
</table>

*Also:*

Remember to take your eTest in the Assessment Centre at the time and day that you have booked
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Tuition Free Week</th>
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<tbody>
<tr>
<td>8</td>
<td></td>
<td></td>
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</tbody>
</table>
| 9    | 25<sup>th</sup> Apr | Foundations of Anatomical Pathology  
- Histopathology  
- Diagnostic Cytology. (AM)  
No Practical (note Monday public holiday) |
| 10   | 2<sup>nd</sup> May | Introduction to Bio-molecules. Introduction to Biochem.  
Intro to instrumentation (Spectro). (AP)  
Practical 7 Haematology |
| 11   | 9<sup>th</sup> May | Fundamentals of Molecular Biology.  
(AP)  
Practical 8 Histopathology |
| 12   | 16<sup>th</sup> May | Laboratory molecular diagnostic methods.  
Continuation - laboratory instrumentation.  
(AP)  
Practical 9 Clinical Biochemistry |
| 13   | 23<sup>rd</sup> May | End of semester overview & exam info  
(AP)  
Practical 10 Molecular Biology |
| 14   | 30<sup>th</sup> May | **Practical Assessment**  
*In lecture timeslot, in lecture venue.* |
| 15   | 8<sup>th</sup> Jun | Study Week |
| 16 + | 15<sup>th</sup> Jun | **Examinations** |

AP - Mr Adrian Paxman  
PC - Dr Paul Costantino  
BB - Dr Brian Brestovac  
AM – Dr Alina Miranda

February 2016.  
Please note that updated versions of the Program Calendar may be added to the Unit Information link on the unit Blackboard site.