

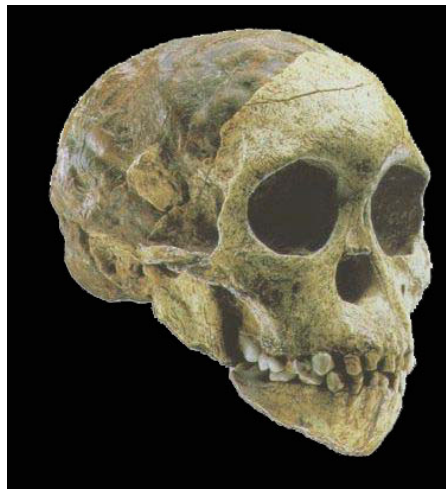


Australia's  
Global  
University

Faculty of Medicine & Health  
School of Medical Sciences

# ANAT2521

## Biological Anthropology: Principles and Practices



TERM 2, 2021  
COURSE OUTLINE

CRICOS Provider Code 00098G

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Please read this manual/outline in conjunction with the following pages on the [School of Medical Sciences website](#):

- [Advice for Students](#)
- [Learning Resources](#)

(or see "STUDENTS" tab at [medicalsciences.med.unsw.edu.au](http://medicalsciences.med.unsw.edu.au) )

## Course Staff

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**Associate Prof. Goran Štrkalj**

Office: Room 214, Level 2 West, Wallace Wurth Building

Email: [g.strkalj@unsw.edu.au](mailto:g.strkalj@unsw.edu.au)

Appointments with the convenor should be arranged **via email**. Please email from your **official UNSW student account**, include your **student number, course code** and state the **subject** clearly. Content questions preferably should be posted in the Moodle Forum.

## Course Aims

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The aims of this course are to:

1. Provide the student with an understanding of the major biological (physical and evolutionary) attributes of humans.
2. Assist the student to develop a deeper appreciation of the place of humans in the natural world.
3. Provide the student with some knowledge and skills from the field of biological anthropology.
4. Help the student to appreciate the importance and relevance of the study of human origins for an understanding of modern human variation, development and disease

## Student Learning Outcomes

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At the completion of this course, students should be able to:

1. Demonstrate an understanding of the fundamental concepts, methods and ethical principles of biological anthropology.
2. Apply the basic principles of evolutionary theory in the context of primate evolution and diversity.
3. Correlate the anatomy of non-human primates and modern humans and apply this in interpreting the evidence for human evolution.
4. Apply the biosocial approach to interpret human biological diversity, its effect on human diet and disease and relate this to modern human societies.
5. Apply knowledge of human anatomy and diversity to forensic and bioarchaeological contexts.

## Prerequisites

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There are no prerequisites for the course because all necessary knowledge (e.g. elementary genetics and principles of evolution) is included within the course structure. This has been done to make the course appropriate for students with diverse educational backgrounds.

## Course Structure

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It is strongly recommended that students attend all lectures and practicals. The workflow of a typical week includes the following activities:

1. **Preparatory activities** – activities available via Moodle (readings etc.) should be completed prior to attending face-to-face activities in each week.
2. **Online lectures**
3. **Online practical sessions**

## Attendance

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Your attendance at lectures and practicals is IMPORTANT, including Week 1, in which key information such the course structure and assessments, laboratory safety, ethical considerations and procedures will be discussed. Attendance in all activities is highly recommended and our expectation is that **all** practical sessions will be attended.

Please note that should you be unable to attend your practical class for any reason, you will not be able to do “make-up” labs. **In case if you miss any part of your assessment** due to misadventure or illness, an application for **Special Consideration** should be lodged **online** with **Student Central** within three days.

## Resources for Students

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### Prescribed Text:

Kottak P. 2018. *Anthropology: Appreciating Human Diversity*, 18<sup>th</sup> Edition, McGraw Hill.

### Other additional useful texts:

Stanford C, Allen JS, Antón SC. 2016. *Exploring Biological Anthropology: The Essentials*, 4th Edition, Pearson.

White TD, Folkens PA. 2005. *The Human Bone Manual*, Elsevier Inc.

**Learning Resources:** additional learning resources are available through course moodle page.

Below are some useful links to the resources and services that may support your learning and improve your learning experience:

Key Dates: <https://student.unsw.edu.au/dates>

UNSW Student Life Hub: <https://student.unsw.edu.au/hub#main-content>

Student Support and Development: <https://student.unsw.edu.au/support>

IT, eLearning and Apps: <https://student.unsw.edu.au/elearning>

Student Support and Success Advisors: <https://student.unsw.edu.au/advisors>

Equitable Learning Services: <https://student.unsw.edu.au/els>

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# Assessment

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1. Projects	20%
2. Test 1	20%
3. Test 2	20%
4. Theory exam	40%

## Continuous assessment

There are two small research projects: 1. Individual written submitted in week four and 2. Group delivered as an oral presented to the class in week 9. Each of the two is worth 10% of the final mark.

## Tests 1 and 2

Tests 1 and 2 are each worth 20%. The tests assess knowledge learned and skills obtained during lectures and practicals. Test 1 covers the content of the first half of the term while Test 2 focuses on the second half of the term. The format and location of the Tests will be posted on Moodle.

## Theory Exam

A single 2-hour written exam worth 40% will held during the formal examination period. It assesses student knowledge of course content and deeper understanding (such as the ability to make connections between ideas or to assess capacity for problem-solving). The written exam comprises multiple choice questions and short answer questions and will test knowledge obtained from lectures and practicals. Final exam period for Term 2, 2021 is Friday, 13 August to Thursday, 26 August. Supplementary exam period for Term 2, 2021 is Monday, 6 September to Friday, 10 September.

## Failure to complete an assessment

If you miss any part of an assessment due to misadventure or illness, an application for Special Consideration should be lodged online in myUNSW before the assessment is due.

Failure to sit a test or exam without lodgement of an application for Special Consideration will lead to automatic failure of the test. An absence from a test or exam must be supported by a medical certificate or other document that clearly indicates you were unable to be present. That certificate should be dated the same day as the examination.

See <https://student.unsw.edu.au/special-consideration>

**ANAT2521- course schedule – T2-2021**

Week	Dates	Pre-class Work	Lecture (2 x 1hr each)	Practical (1 x 2 hrs)
1	31/05-06/06	Textbook: chapter 2.4 Lab Manual: week 1	Introduction to Biological Anthropology: Methods and Practices	Osteology / Osteology
2	07/06-13/06	Textbook: chapter 2.5 Lab Manual: week 2	Genetics and Evolutionary Theory	Evolutionary Theory / Osteometry 1
3	14/06-20/06	Textbook: chapter 2.6 Lab Manual: week 3	Human Variation and Adaptation	Human Variation / Osteometry 2
4	21/06-27/06	Textbook: chapter 2.7 Lab Manual: week 4	Primatology	Primate Comparative Anatomy
5	28/06-04/07	Textbook: chapters 2.1-4 Lab Manual: weeks 1-4	Bipedalism and Revision	Test 1
6	05/07-11/07		Flexibility week	Test 1 Feedback
7	12/07-18/07	Textbook: chapter 2.8 Lab Manual: week 7	Early Hominins	Fossil Hominins 1
8	19/07-25/07	Textbook: chapter 2.9 Lab Manual: week 8	The Genus <i>Homo</i>	Fossil Hominins 2
9	26/07-01/08	Textbook: chapter 2.10 Lab Manual: week 9	The Origin and Spread of Modern Humans	Project Presentations / Anatomically Modern Humans
10	02/08-08/08	Lab Manual: week 10	Forensic Anthropology	Forensic Anthropology
	10/08-12/08		Self-study	
	13/08-26/08		Test 2, Exam	
	06/09-10/09		Supplementary Exams	

# Continual Course Improvement

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For course evaluation, feedback is been gathered at the completion of the course, using among other means, UNSW's Course and Teaching Evaluation and Improvement Process and myExperience. Student feedback is taken seriously, and continual improvements are made to the course based, in part, on such feedback.

This course has been significantly redesigned based on not only student feedback but also on best practices in learning and teaching. The changes to the course included:

- The delivery in this course was online due to COVID-9 restrictions. In 2021 all laboratory practicals will be delivered in the "face-to-face" mode in the anatomy laboratory.
  - A prescribed textbook has been changed to accommodate to a 10-week delivery.
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Hazards	Risks	Controls
<p><b>Physical</b> Cold temperature (16°C) Sharp bone/plastic</p> <p><b>Biological</b> Fungi, bacteria (tetanus), hepatitis B and C</p> <p><b>Chemical</b> Formaldehyde Methylated spirits 2-phenoxyethanol</p>	<p>Cold</p> <p>Penetrating wound of foot</p> <p>Infection</p> <p>Corrosive/Flammable Flammable Irritant</p>	<ul style="list-style-type: none"> <li>Wear laboratory coat over appropriate warm clothing</li> <li>Wear enclosed shoes with full coverage of the dorsum of the foot</li> <li>Wear protective eyewear</li> <li>Wear face mask (if required)</li> <li>Have appropriate immunisation</li> <li>Do not eat, drink or smoke in the Anatomy Lab</li> <li>Do not place anything (e.g. pens, pencils) into your mouth</li> <li>Use disposable gloves when handling wet specimens and do not cross-contaminate models or bones with wet specimens</li> <li>Use disinfectant and wipes for cleaning models</li> <li>Always wash hands with liquid soap and dry thoroughly with disposable paper towel before leaving (hand sanitisers also available)</li> <li>Low concentrations of chemicals used</li> <li>Chemicals used in well ventilated area</li> <li>Safety Data Sheets for chemicals available</li> </ul>

**Personal Protective Equipment required**

				
Lab. Coat	Closed in footwear	Safety Glasses	Gloves	Mask

**Emergency Procedures**

In the event of an alarm sounding, stop the practical class and wait for confirmation to evacuate from demonstrators. Then wash your hands and pack up your bags. Follow the instructions of the demonstrators (and/or fire wardens) regarding exits and assembly points.

**Clean up and waste disposal**

- Cover wet specimens with the towels provided. Make sure that towels do not hang over the edge of the table, because this allows fluid to drip onto the floor. Fluids on the floor are a major safety hazard and should be reported to staff immediately.
- Replace stools under the tables in your cubicle (if applicable).
- Remove your gloves and dispose in the biowaste bins provided.
- Wash your hands and instruments thoroughly with the soap and dry your hands with paper towel.
- Remove your laboratory coat when you leave the dissecting room.

**Ethics Approval**

This type of practical has been previously considered and approved by the UNSW Human Research Ethics Advisory Panel (HC180115).

**Declaration**

I have read and understand the safety requirements for this practical class, and I will observe these requirements.

Signature:..... Date:.....

Student number: .....