Temporal Bone Dissection Course

The course offers a step-wise learning process starting with 2D illustrations, followed by a progressive introduction to the third dimension, to finally achieving a virtual dissection of the temporal bone, with optional drilling on an artificial bone.

Prior to drilling the temporal bone to expose the middle ear structures, an excellent understanding of the locations and spatial relationships of key anatomical structures is needed. Hands-on learning is also available via virtual or artificial simulation.

The course consists of three components:

- Course 1: Online surgical anatomy course integrating virtual anatomy of the temporal bone
- Course 2: Virtual reality temporal bone dissection on a surgical simulator (attendance in your own time at University of Melbourne)
- Course 3 (Optional): PHACON Artificial temporal bone dissection simulation (completion in your own time)

Online learning will be included for all three courses, however the two simulation courses will have additional content related to how to perform the simulation exercises, as well as a reflective log to document the simulation practice.

The course is suitable for people exposed to ear surgery such as surgeons, trainees, nurses, medical students, engineers, audiologists, clinical representatives and other interested parties.

For more information, visit go.unimelb.edu.au/tf96
COURSE OUTLINE

The course provides theoretical knowledge, instructional videos and integrates two simulator training programs on how to perform temporal bone dissection. After completing course 1 and 2, you will be able to:

• Understand the basic surgical anatomy of the temporal bone
• Identify the landmarks and relationships between key anatomical structures in the space that guides a surgeon in performing temporal bone surgery
• Learn to drill and expose the middle ear structures through a step-by-step surgical approach
• Learn specific surgical tips to improve surgical dissection and help minimise complications

Course 1: Online Learning

• Anatomical and surgical guide for transmastoid approach, including knowledge to guide the student in a step-by-step manner on how to perform a standard operation and understand the surgical anatomy.
• Knowledge to understand difficult cases and strategies for success.
• Reinforcement through case studies on a range of surgical presentations (10 cases).

Course 2: Virtual Reality Temporal Bone Surgery Simulator

• Knowledge on how to use the simulator and the objectives of simulator learning.
• Reflective logbook on the simulator exercises with teacher feedback.

Course 3: PHACON Artificial Bones Simulator (optional)

• Knowledge on how to use the artificial bones and the objectives of artificial bone dissection.
• Verification – upload photos of dissection for teacher feedback and evaluation.
• Dissection practice in own time and location.

Course Duration

Completion of all 3 courses requires up to 20 hours of elearning.

Course 1: Online learning (10-15 hours of learning)
Course 2: Virtual reality temporal bone surgery simulation - booking required at designated location (1-2 hours of learning)
Course 3: Drilling of artificial temporal bones

Course fees

Course 1 Full Fee: AUD $550 (inc. of GST)
Course 2 Full Fee: AUD $330 (inc. of GST)
Course 3 Full Fee: AUD $165 (inc. of GST) plus the purchase of bones direct from the supplier which can be found here.

Course 1, 2 and 3 Bundle Discount: AUD $940.50 (inc. of GST with 10% discount) plus the purchase of bones direct from the supplier which can be found here.

How to apply

Go to go.unimelb.edu.au/tf96

Get in touch

► medicine.unimelb.edu.au/mlu
✉ mobile-learning@unimelb.edu.au
📞 +61 3 8344 5673