

University of Alberta

Friday, November 20th, 2026

WORKSHOP CATALOGUE

Code	Title	Description	AM	PM	Coordinator/Presenters (Department) and Location
A01	Introduction to Kinesiology and Sport Injury	In this workshop you will receive an introduction to the field of kinesiology and a brief overview of the kinesiology program at the University of Alberta. The presentation will then focus on how kinesiology students use their knowledge and skills in the world of sport injury. The workshop will include hands-on practical experience in several sport injury-related tasks such as splinting, taping and concussion assessment.	22		Matt Yaworski (Kinesiology, Sport and Recreation)
A02	Occupational Therapy, Physical Therapy and Speech Language Pathology	Join us for tours and activities with the Departments of Physical Therapy, Occupational Therapy and Communication Sciences & Disorders. Learn about what rehabilitation medical professionals do on a day-to-day basis.	20		Mark Hall (OT, PT, SLP)
A03	Family Medicine, Geriatric Medicine and Hospital Medicine	In this workshop students will get the opportunity to take a look into the fascinating world of family medicine and its role in our society!	15	15	Kourosh Dinyari (Family Medicine)
A04	Med School 101	In the Med School 101 workshop, you will hear from current medical students about the University of Alberta MD Program and the process of applying to medical school. This includes topics such as courses to take prior to medical school, MCAT preparation, and supports/unique admission pathways for applicants from underrepresented backgrounds. After the presentation, you will have the opportunity to ask questions and then participate in two clinical workshops on suturing and physical exam skills.	50	60	Andrew Cunningham Christina Ingram Tyson Keddie (Medical School)
A05	The Path to Ophthalmology	In this workshop, we will discuss different eye health professionals including Ophthalmologists (Eye surgeons) and the pathway to becoming one. We will also talk about how to assess someone's eye health and have hands-on demonstrations on how to take different eye related measurements including visual acuity, intra-ocular pressure and pupil measurements.	22		Carolyn Aizouki Charley Cai Yousef Sefau (Ophthalmology)
A06	Augmented Renal Clearance: When Kidneys Work Overtime	This presentation will provide students with a basic understanding of the kidneys and their role as major drug-eliminating organs, while introducing the concept of augmented renal clearance. It will also provide a brief introduction to pharmacy research and how clinical research	20		Maged Kharouba (Pharmacy and Pharmaceutical Sciences)

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		can help us understand and address challenges in medication therapy.			
A07	Observing Neurons in the Developing Animal Brain	Students will use microscopes to observe brain development in fruit flies, one of the most widely used laboratory animals in the world. Students will use surgical microdissection to isolate the central nervous system (brain) from juvenile fruit fly larvae where the neurons have been modified to glow under UV light (Green Fluorescent Protein). They will have the opportunity to observe and photograph the isolated brains under advanced microscopes. Additionally, tours of advanced microscope and behavioral laboratories that study fruit flies will also be possible (time permitting).	12	12	Qiumin Tan Sarah Hughes Deniz Top Andrew Simmonds (Neuroscience)
A08	From Atoms to Anatomy: Exploring the Field of Medical Physics	In this workshop, you'll explore the physics principles behind medical imaging and radiation therapy. You'll examine real diagnostic images and radiation therapy treatment plans.	22	30	Lauren Smart Patricia Oliva Zachary Cox
A09	Making Muscles Twitch for Science and Surgery: How We Monitor the Nervous System	How do we know whether the nervous system is working properly? In this interactive workshop, students will explore how clinical neurophysiologists and researchers use small electrical signals to test nerves, muscles, spinal cord pathways, and brain function. We will demonstrate how stimulating a nerve can make a muscle twitch, how those responses can be recorded and measured, and how similar techniques are used in research on neurodegenerative diseases such as ALS. Students will also learn how intraoperative neurophysiologists monitor the nervous system during surgery to help surgeons protect important pathways in real time. The workshop will introduce students to an exciting area of health science that combines physiology, medicine, technology, data analysis, and patient care.	15	15	Kelvin Jones (Kinesiology, Sport, & Recreation)
A10	Radiation Therapy 101	An introduction to this specialized health care profession where compassionate care meets cutting-edge technology. Learn about the profession of radiation therapy, participate in a mock treatment of an oncology patient and discover your pathway to becoming a student in the University of Alberta's Radiation Therapy program.		15	Leslie Wutzke (Department of Oncology, Radiation Therapy Program)
A11	Precision Medicine: Finding the Optimal Antibiotic Dose in the Neuro-ICU	In the intensive care unit, finding the right antibiotic dose for patients with severe brain injuries and infections is a critical challenge. This presentation explores how clinicians use precision medicine, combining human biology, math, and pharmacology, to tailor exact drug doses for the unique environment of the neuro-ICU, ensuring treatments are strong enough to	22		Asma Aboelezz (Pharmacy and Pharmaceutical Sciences)

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		fight infection without causing harm.			
A13	The Ever-Expanding Role of the Pharmacist	In this workshop, you'll explore the physics principles behind medical imaging and radiation therapy. You'll examine real diagnostic images and radiation therapy treatment plans.		20	Dylan Moulton (Pharmacy and Pharmaceutical Science)
A14	The Interaction of Our Genetic Make-up with Health: Solving the Mystery	In this workshop, you will get to learn the roles of a clinical genetic doctor, genetic counselor, and molecular lab technologist. You will work through scenarios of rare genetic diagnosis in the media		15	Shailly Jain (Medical Genetics)
A15	Brains, Muscles and Human Movement	This interactive workshop will provide an introduction into how the nervous system controls human movement. We will talk about the brain, spinal cord and muscles and how they work together to make us move. There will be an opportunity to get hands on experience recording the electrical activity muscles give off when they contract, using electrical stimulation to activate human nerves and muscles and using a transcranial magnetic stimulator to activate the map of the human body in the "motor cortex" in the human brain. In the end students will gain a better understanding of how humans move, learn a bit about what happens after a spinal cord injury and get an introduction to techniques researchers use to better understand human movement.	20	20	David Collins Alex Ley (Kinesiology, Sport, and Recreation)
A16	Could You Be an Anesthesiologist ?	Follow an operating room case from start to finish to discover what anesthesiologists do before, during, and after surgery. Explore the science, teamwork, decision-making, and career pathway involved in becoming an anesthesiologist—and see if it could be the career for you.	20	30	Amanda Krysler Liam Thompson