

University of Manitoba
Friday, November 1, 2019

WORKSHOP CATALOGUE

Code	Title	Description	AM	PM	Presenters
A01	Nursing Skills with Injections and Ostomies	In this workshop, you will gain hands-on experience preparing and administering intramuscular injections to a simulated patient. You will also learn about ostomies (an ostomy is a surgically created opening in the colon) and get the opportunity to change the collection device on a simulated patient. This workshop is led by College of Nursing instructors.	0	30	Wanda Falk Whitley Schamber Danielle Yaffe (College of Nursing)
A02	Biosystems Engineering: Assistive Technologies Design Challenge	We will give a brief overview of the Biosystems Engineering program, with special emphasis on the biomedical specialization. For the majority of the time, students will get to experience the role played by an engineer in the development of assistive technologies for individuals with disabilities by participating in a design challenge. Students will build and test a device.	25	25	Dr. Jason Morrison Sarah Slagerman (Biosystems Engineering) Brodie 204
A03	Tour of Canada's Only Level 4 Containment Laboratory	This workshop is an exclusive opportunity to visit Canada's only Level 4 containment lab facility! This world-class laboratory is at the forefront of infectious disease diagnostics, research, surveillance and emergency response in Canada and around the world. Researchers and technicians work with human and animal pathogens ranging from E-coli to Ebola, Avian Influenza to Foot-and-Mouth Disease. Participants will also get an inside view of the incident command centre and see the positive pressure suit worn in the level 4 lab. SPECIAL NOTES: Close-toed shoes are mandatory, bring photo ID, do not wear scented products and cameras and photos are prohibited.	30	0	Joy Stadnichuk Marie Tichborne (National Microbiology Laboratory) Canadian Science Centre for Human and Animal Health
A04	Exposure to Clinical Psychology: Who we are & what we do	We will describe how to become a clinical psychologist, our current positions, and the various career opportunities in clinical psychology. Students will participate in several hands-on experiences with assessment tasks and psychotherapy techniques.	0	20	Dr. Heather MacKenzie Dr. Sayma Malik (Clinical Health Psychology)
A05	What's Psychiatry All About?	In this workshop you will learn about the many aspects of the medical field of Psychiatry: What do Psychiatrists do? What mental illnesses do they treat? How can I help fight stigma and look out for my peers and myself? You will also have the opportunity to try some of the tests Psychiatrists use!	25	25	Dr. Lauren Turner Dr. Dorothy Yu (Psychiatry) PZ487

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A06	Occupational Therapy: Skills for the Job of Living	Have you ever thought about how you might make a meal with the use of one hand, safely move around your home in a wheelchair, or manage at work with mental health issues? Come see (and try out) some of the ways occupational therapists can help people to live more independent and satisfying lives.	0	24	Lisa Mendez (Occupational Therapy) Rehabilitation Sciences R224
A07	Introduction to Respiratory Therapy	In this workshop we will have hands-on displays featuring equipment used by Respiratory Therapists and information on what Respiratory Therapy is, duties and responsibilities, career outlook and how to apply for the degree program including course requirements etc.	0	20	Alison Paqsuyuin (Respiratory Therapy) Rehabilitation Sciences R236
A08	Mathematics in Neuroscience: How math helps our understanding of our brains	Learn how mathematics is used in current neuroscience research (e.g., brain imaging and brain stimulation) to broaden our understandings on the human brain. Volunteering students may have opportunity to be stimulated by our brain stimulator (NB. the stimulation will be applied to the hands as a demonstration, not to the brain).	15	0	Stella Choi Dr. Ji Hyun Ko Natalie Wright (Human Anatomy and Cell Science) SR415 (Kleysen Institute)
A09	What Happens To My Appendix When They Remove It?	In this workshop you will see a presentation that shows what happens to your appendix after it is removed. You will have a chance to embed tissues into wax molds and will see how sections are cut on a microtome and made into glass slides for a pathologist to read.	0	10	Dr. Marc Dupré Dr. Gabor Fischer Lisa Manning Jenna Parkin Marijay Umali (Diagnostic Services Manitoba) Theatre A Brodie 401
A10	Balance and Motor Function Testing	Walking and balancing in everyday life is a complex function. In a laboratory setting, testing specific reflexes and reactions while walking on a treadmill will be demonstrated as a way to assess motor function. You will be walking on a treadmill and perform virtual-reality augmented exercises.	15	15	Katrina Armstrong Dr. Kristine Cowley Mona Nazzal Dr. Katinka Stecina (Physiology and Pathophysiology) BMSB 407
A11	Being a Researcher in the Media: Let's play journalist!	This workshop will begin with a presentation of the do's and don'ts of a media interview when talking about science. Working in groups of 3, you will then receive a science based news item/article and write an interview, which must be accurate and clear enough for the public to understand. One student in each group will then act out the script with the presenter who will play the role of the host. The interviews will be filmed and reviewed by the group for performance, clarity and attitude.	0	15	Dr. Jean-Eric Ghia (Immunology)
A12	Nursing in Canada's Remote North: 'Feet Don't Fail Me Now' and 'For Your Eyes Only'	We will include a brief slideshow on two Northern Health Nursing Programs: The Diabetic Foot Care Program and the Diabetic Retinal Screening Program. The workshop will discuss the challenges and triumphs of working with those living with diabetes in Northern Manitoba as well as offer hands-on experience working with a Foot Doppler and a Retinal Screening camera.	10	10	Anastasia Chmielowicz Ava Halpin Kimberly Hrycaiko (Community Health Sciences) Brodie 208

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A13	A Day in the Life of a Microbiologist	Do you think medical research may be for you? This workshop will expose you to a day in the life of a medical microbiologist where you will visit an HIV and anti-microbial resistance lab. You will gain hands-on experience in various lab techniques used in the study of HIV and anti-microbial resistance and tour a Level 2 Containment Laboratory where research is being conducted on viruses such as HIV and Flu.	20	0	Dr. Denice Bay Dr. Keith Fowke Natasha Hollett (Medical Microbiology and Infectious Diseases) BMSB 540B
A14	Neuroanatomy: Exploring the Brain	In this workshop held in the new Dr. George Yee Laboratory of Anatomical Sciences, students will have the opportunity to see and handle human brain specimens. With the assistance of the presenters, students will learn to identify different parts of the brain, their functions, and how they are affected by disease.	20	20	Dr. Sari Hannila (Human Anatomy & Cell Science) BMSB Dr. George Yee Laboratory of Anatomical Sciences
A15	Radiosurgery with the Gamma Knife and Edge Linear Accelerator	Students will be shown how brain, lung, and spine tumours and other benign abnormalities can be treated with multiple beams of radiation, as well as an explanation of standard radiation treatments. Computerized treatment planning will be demonstrated.	10	10	Dr. Anita Berndt Dr. Jim Butler Olive Cotroneo Charles Schroeder Eleanor Topacio (CancerCare Manitoba) HSC GH186
A16	Extracellular Vesicles: The cell's email system	All cells talk to each other. They do so by secreting tiny vehicles full of information known as extracellular vesicles (EVs). Think of them as emails. Just like an email can have a picture, text or video inside, EVs contain different biological materials. You will learn about EVs and their role in conditions of health and disease. During the hands-on workshop you will use size exclusion chromatography to separate colourful biomolecules from each other. This technique is used to separate small EVs from big ones.	32	0	Ben Bydak Patience Obi Dr. Taiana Pierdoná Martins Dr. Ayesha Saleem (Children's Hospital Research Institute of Manitoba)
A17	Women: Medical marvels, dramatic deliveries, virally vigilant	This workshop is in three parts: explore what makes a woman biologically female with our mini-anatomy sessions; help deliver a baby with our hands-on models and take part in the miracle of life; compete in Human Papilloma Virus Jeopardy and learn how it affects you and your friends.	36	0	Joanna McDonald Dr. Jenna McNaught Dr. Adelia Yu (Obstetrics, Gynaecology & Reproductive Sciences)
A18	Preventing Diseases with Everyday Life	In this workshop you will examine methods to prevent the spread of infectious disease from cell phones, hands and water. You will also examine the kind of microorganisms that are a huge part of our everyday lives now here in Winnipeg that are resistant to medications intended to kill them. You will participate in a learning activity related to hand hygiene.	0	25	Cindy Isaak-Ploegman (Dr. Gerald Niznick College of Dentistry) Dentistry Building Hamilton Theatre, D16
A19	Dentistry: A career in oral health	In this workshop, we will discuss the evolving dental profession and the requirements for entry into the program. The participants will then have a short tour of the College of Dentistry followed by a pre-clinical activity which includes "filling" a tooth.	0	20	Dr. Vanessa Hunzinger (Dr. Gerald Niznick College of Dentistry) Brass Lab

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A20	Your mouth: More than just teeth	In this workshop you will see the effects that bacteria in dental plaque have on the health of your teeth, gums and body. You will move through stations where you will get hands on experience on how to protect your teeth and gums from bacteria to keep your mouth and body healthy.	25	25	Prof. Mary Bertone Prof. Kathy Yerex (School of Dental Hygiene) Hart Lab
A21	Just Another Day at the Office	A hands-on workshop that demonstrates the variety of things family physicians see every day, including suturing, x-rays and a variety of clinical skills. SPONSORED BY: Manitoba Healthcare Providers Network.	30	30	Dr. Holly Hamilton (Family Medicine) Skills Lab
A22	We Can Fix Three (or Four) of Your Five Senses!	Students will experience first hand what a typical clinic visit is like for an Ear, Nose and Throat surgeon. After getting an overview of what to should look for, you'll carry out clinical examinations on a variety of simulation dummies. Your diagnosis will be reviewed by the surgeons - just as if you were medical school residents.	24	0	Rob Ranson (Otolaryngology - Head & Neck Surgery)
A23	Physical Therapy: It'll move you!	In this workshop, you will be introduced to the different facets of a career in physical therapy. Physical therapy, or physiotherapy, is about exercise, motivation, independence and helping people optimize their movement potential. If it's physical, it's therapy!	0	24	Roland Lavallée (Physical Therapy)

The following two workshops are taking place at the St. Boniface Research Centre Youth BIOLab. Participants will travel by school bus from the Brodie Centre to the lab following the keynote lecture, remain at the lab for lunch and then return to the Brodie at 2:30. When registering online for either B01 (MORNING) or B02 (AFTERNOON) PLEASE DO SO FOR BOTH. Do not select these if you have any concerns about remaining at the lab for both sessions.

B01	Neuroscience and Cardiovascular Research at St. Boniface Hospital	In our morning workshop you will see how neuroscientists study memory and brain diseases such as Alzheimer's. You will get to dissect a real brain, view cells and tissues under the microscope and witness memory experiments that we use to understand brain function.			Dr. Benedict Albeni Dr. Mike Czubryt Stephen Jones Meghan Kynoch (St. Boniface Hospital Albrechtsen Research Centre)
B02	Neuroscience and Cardiovascular Research at St. Boniface Hospital	In our afternoon session, you will see how cardiovascular scientists study heart disease from the molecular and cellular level to the whole organism. You will see live heart cells in the microscope, dissect a pig's heart to see how heart attacks happen and learn about how our scientists investigate stem cells for use in future therapies. We will tour our research floors and meet scientists and students who work on these problems every day.		25	SBRC Youth BioLab, RL016

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<p>The following workshop is taking place at Red River College in the afternoon only. Participants will travel by school bus from the Brodie Centre to the college after lunch (12:40 p.m.) and leave the college at 2:30 p.m. to return to the Brodie. Please do not select this workshop if you have any concerns about being offsite during this time.</p>					
C01	Allied Health Science Programs at Red River College	Allied Health programs provide information about the programs/professions and tours through lab spaces.	0	30	Allan Cadger Shaun Lysak Heather Mauthe Lesley McGuirk Kathleen Scribner (Allied Health Sciences) Red River College, Building A
<p>The following workshop is taking place at Misericordia Hospital in the morning only. Participants will travel by school bus from the Brodie Centre to the hospital after the keynote lecture (10:10 a.m.) and leave the hospital at noon to return to the Brodie. Please do not select this workshop if you have any concerns about being offsite during this time.</p>					
D01	I SPY with your little EYES	This workshop will include interesting case finds, review of pictures, education requirements, equipment demos, as well as a tour of the Ophthalmology Department and Wet Lab.	20	0	Patty Darvill Dr. Alanna Flynn Dr. Danica Kindrachuk Pamela Lowe (Ophthalmology) Buhler Eye Care Centre