

1-UNIT COURSES AVAILABLE TO ALL BIOCHEMISTRY AND MOLECULAR BIOLOGY as well as MEDICAL SCIENCES GRADUATE STUDENTS*

There are a total of 20 x 1-unit courses (formerly called modules). In any given year, at least 14 x 1-unit courses will be offered. 11 will be offered annually, and 9 biennially (i.e. once every 2 years). Of the 9 biennial 1-unit courses (which are somewhat more specialized), 5 are offered on even number years and the other 4 on odd numbered years.

THE NINE 1-Unit COURSES HIGHLIGHTED IN DARK COLOURS BELOW ARE INTENDED AS THE REPLACEMENT FOR MDSC 721, AND BMB PROGRAM STUDENTS SHOULD TAKE ≥2 OF THESE AS PART OF THEIR CORE CURRICULUM, ON TOP OF THE MANDATORY MDGE 721 OUTLINED BELOW. (As a reminder: PhD students need to take courses totalling 9 units, and MSc students need to take courses totalling 6 units)

FALL SEMESTER	CODE	MONTH	F2021	F2022	F2023	F2024	TITLE	LECTURERS	TOTAL	START	END	DAYS
	MDGE 620	Sept-Oct	✓	✓	✓	✓	Essentials of Cancer Science	TBA	8 lectures	10:00:00 AM	11:30:00 AM	T/R
	MDGE 622	Oct-Nov	✗	✓	✓	✗	Principles and Applications of Proteomics	Dr. David Schriemer	8 lectures	10:00:00 AM	11:30:00 AM	T/R
	MDGE 623	Nov-Dec	✗	✓	✗	✓	Tumour Immunology and Immunotherapy	Dr. Douglas Mahoney	8 lectures	10:00:00 AM	11:30:00 AM	T/R
	MDGE 632	Sept-Oct	✓	✓	✓	✓	Principles of Light Microscopy	Drs. Pina Colarusso & Grant Gordon	8 lectures	13:30:00 PM	15:30:00 PM	M/W
	MDGE 633	Nov-Dec	✓	✓	✓	✓	Advanced Techniques in Optical Microscopy	Drs. Pina Colarusso & Grant Gordon	8 lectures	13:00:00 PM	15:30:00 PM	M/W
	MDGE 722	Sept-Oct	✓	✓	✓	✓	Nucleic Acids, DNA Replication, Transcription and RNA Signalling	Drs. Susan Lees-Miller & George Chaconas	8 lectures	15:00:00 PM	16:30:00 PM	T/R
	MDGE 723	Oct-Nov	✓	✓	✓	✓	Translation, Protein Folding and Post-Translational Modification	Drs. Savraj Grewal & Justin MacDonald	8 lectures	15:00:00 PM	16:30:00 PM	T/R

WINTER SEMESTER	CODE	MONTH	W2022	W2023	W2024	W2025	TITLE	LECTURERS	TOTAL	START	END	DAYS
	MDGE 624	Jan-Feb	✓	✓	✓	✓	Cell Cycle Regulation and Aging	Drs. Tara Beattie & Karl Riabowol	8 lectures	10:00:00 AM	11:30:00 AM	T/R
	MDGE 625	Feb-Mar	✓	✗	✓	✗	Epigenetics and Chromatin Dynamics	Drs. Jennifer Cobb & Aaron Goodarzi	8 lectures	10:00:00 AM	11:30:00 AM	T/R
	MDGE 626	Mar-Apr	✓	✗	✓	✗	DNA Damage Signalling & Repair	Drs. Susan Lees-Miller & Gareth Williams	8 lectures	10:00:00 AM	11:30:00 AM	T/R
	MDGE 628	Feb-Mar	✓	✗	✓	✗	Tumour Microenvironment Dynamics	Drs. Paul Beaudry & Antoine Dufour	8 lectures	10:00:00 AM	11:30:00 AM	M/W
	MDGE 629	Mar-Apr	✗	✓	✗	✓	Molecular Cancer Signalling Networks	Drs. Shirin Bonni & Tim Shutt	8 lectures	10:00:00 AM	11:30:00 AM	M/W
	MDGE 630	Jan-Feb	✓	✓	✓	✓	Anti-Cancer Therapeutics and Clinical Trials	Drs. Aru Narendran and Paola Neri	8 lectures	10:00:00 AM	11:30:00 AM	M/W
	MDGE 631	Feb-Mar	✗	✓	✗	✓	Fundamentals of Brain Development, Physiology and Disease	Drs. Minh Dang Nguyen & Guang Yang	8 lectures	10:00:00 AM	11:30:00 AM	M/W
	MDGE 634	Mar-Apr	✓	✓	✓	✓	Digital Image Analysis for Optical Microscopy	Drs. Pina Colarusso & Grant Gordon	8 lectures	10:00:00 AM	11:30:00 AM	M/W
	MDGE 635	Feb-Mar	✗	✓	✗	✓	Hereditary and Environmental Causes of Cancer	Drs. Jennifer Corcoran & Aaron Goodarzi	8 lectures	10:00:00 AM	11:30:00 AM	T/R
MDGE 724	Jan-Feb	✓	✓	✓	✓	Introduction to Bioinformatics Resources	Drs. Sorana Morrisey & Laura Sycuro	8 lectures	15:00:00 PM	16:30:00 PM	T/R	
MDGE 725	Feb-Mar	✓	✓	✓	✓	Applied Genomics	Drs. Maja Tarailo-Graovac & Marco Gallo	8 lectures	15:00:00 PM	16:30:00 PM	T/R	
MDGE 726	Mar-Apr	✗	✓	✗	✓	Applied Structural Biology	Drs. David Schriemer & Gareth Williams	8 lectures	15:00:00 PM	16:30:00 PM	T/R	

The SPRING SEMESTER MDGE 721 is mandatory for all BMB program students

SPRING	CODE	MONTH	S2021	S2022	S2023	S2024	TITLE	LECTURERS	TOTAL	START	END	DAYS
	MDGE 721	May	✓	✓	✓	✓	Biochemistry and Molecular Biology: Scientific Method, Data Analysis & Communication	Drs. Jennifer Cobb, Aaron Goodarzi, Sarah Childs, Savraj Grewal	8 lectures	15:00:00 PM	16:30:00 PM	T/R

* Graduate Students in other programs can take these by request and permission from the coordinator (pending availability)

IMPORTANT: THESE DETAILS ARE TRUE AS OF FALL 2021. IT IS POSSIBLE THAT THERE WILL BE CHANGES IN FUTURE YEARS, BUT THIS IS THE PROJECTED PLAN AS OF RIGHT NOW. REGISTRATION FOR MODULES WILL BECOME AVAILABLE IN JULY-AUGUST OF A GIVEN YEAR.

