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

There are a total of 18 x 1-unit courses (formerly called modules). In any given year, 14 x 1-unit courses will be offered. 10 will be offered annually, and 8 biennially (i.e. once every 2 years).

Of the biennial 1-unit courses (which are are somewhat more specialized), 4 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)

	CODE	MONTH	F2019	F2020	F2021	E2022	TITLE	LECTURERS	TOTAL	START	END	DAYS
FALL SEMESTER	MDGE 621	Sept-Oct	12019 ✓	12020 ✓	12021 ✓	12022	Anti-tumour Drug Discovery and Current Cancer Therapies	Dr. Aru Narendran	8 lectures	10:00:00 AM	11:30:00 AM	T/R
	MDGE 622	Oct-Nov	<b>√</b>	×	<b>√</b>	×	Proteomics & Metabolomics	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 722	Sept-Oct	✓	✓	✓	✓	Nucleic Acids, DNA Replication, Transcription and RNA Signalling	Drs. James McGhee & Susan Lees-Miller	8 lectures	15:00:00 PM	16:30:00 PM	T/R
	MDGE 723	Oct-Nov	✓	✓	✓	✓	Translation, Protein Folding and Post-Transational Modification	Drs. Savraj Grewal & Justin MacDonald	8 lectures	15:00:00 PM	16:30:00 PM	T/R
	MDGE 631	Nov-Dec	×	✓	×	✓	Introduction to Nervous System Development	Drs. Minh Dang Nguyen & Guang Yang	8 lectures	15:00:00 PM	16:30:00 PM	T/R
	MDGE 632	Oct-Nov	✓	✓	✓	✓	Principles of Light Microscopy	Drs. Pina Colarusso & Grant Gordon	8 lectures	13:00:00 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
WINTER SEMESTER	CODE	MONTH	W2020	W2021	W2022	W2023	3 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 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	✓	$\checkmark$	✓	✓	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
	MDGE 627	Jan-Feb	✓	✓	✓	✓	Cancer Cell Biology - Fundamentals and Current Topics	Drs. Shirin Bonni & Donna Senger	8 lectures	10:00:00 AM	11:30:00 AM	M/W
	MDGE 628	Feb-Mar	✓	×	$\checkmark$	×	Cancer Cell Invasion, Metastasis and Angiogenesis	Dr. Paul Beaudry	8 lectures	10:00:00 AM	11:30:00 AM	M/W
	MDGE 629	Mar-Apr	×	✓	×	✓	Signal Transduction Pathways and Cancer	Drs. Shirin Bonni & Morley Hollenburg	8 lectures	10:00:00 AM	11:30:00 AM	M/W
The SPRING SEMESTER MDGE 721 is now mandatory for all future BMB program students and current students WHO HAVE **NOT** ALREADY TAKEN MDSC 721												
, n <sup>(c)</sup>	CODE	MONTH	S2019	S2020	S2021	S2022		LECTURERS	TOTAL	START	END	DAYS
SPRING	MDGE 721	May	✓	✓	✓	✓	Biochemistry and Molecular Biology: Scientific Method, Data Analysis & Communication	Drs. Jennifer Cobb, Aaron Goodarzi, Sarah Childs	8 lectures	15:00:00 PM	16:30:00 PM	T/R

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

IMPORTANT: THESE DETAILS ARE NEARLY FINALIZED FOR 2019-2020. IT IS POSSIBLE THAT THERE WILL BE CHANGES IN FUTURE YEARS, BUT THIS IS THE PROJECTED PLAN AS OF RIGHT NOW. MORE INFORMATION ON ALL MODULES WILL BECOME AVAILABLE AND WILL BE POSTED ONLINE BY JUNE 2019. REGISTRATION FOR FALL 2019 MODULES WILL BECOME AVAILABLE IN JULY-AUGUST OF 2019.