

**GRADUATE SCHOOL OF BIOMEDICAL SCIENCES  
FALL 2023 COURSE OFFERINGS**

**BIOCHEMISTRY AND MOLECULAR BIOLOGY**

CRN #	Catalog #	Credits	Title/Instructor	Day	Time	Location
14851	BCHM 1010	4	<b>General Biochemistry I</b> <i>Dr. Kristina H. Petersen</i>	Tues. & Thurs.	4:00-5:50 pm	Hybrid: In-Person and Online
17206	BCHM 1011	3	<b>Selected Topics in Biochemistry I</b> <i>Dr. Kristina H. Petersen</i>	Tues. & Thurs.	4:00-5:50 pm	Hybrid: In-Person and Online
17207	BCHM 2330	2	<b>Vitamins and Minerals</b> <b>CANCELLED</b> <i>Dr. John Pinto</i>	Monday	4:00-5:50 pm	Hybrid: In-Person and Online
17208	BCHM 7010	1	<b>Directed Readings in Specialized Topics</b> <i>Topic and Instructor - To Be Arranged</i> <i>Dr. Victor Fried</i>		To Be Arranged	
17209	BCHM 8020	1	<b>Departmental Seminar and Journal Club</b> <i>Dr. Victor Fried</i>	TBD		

**RESEARCH AND THESIS COURSES**

CRN #	Catalog #	Credits	Title/Instructor
17210	BCHM 8311	1	<b>Teaching Assistance in Biochemistry and Molecular Biology</b> Dr. Victor Fried
17211	BCHM 8312	2	<b>Teaching Assistance in Biochemistry and Molecular Biology</b> Dr. Victor Fried
17212	BCHM 9110	1	<b>Research Rotation in Biochemistry &amp; Molecular Biology*</b> Dr. Victor Fried
17213	BCHM 9200	1	<b>Research Techniques in Biochemistry &amp; Molecular Biology*</b> Dr. Victor Fried
17215	BCHM 9800	1-5	<b>Master's Thesis Research</b> Dr. Victor Fried
17216	BCHM 9900	1	<b>Doctoral Dissertation Research*</b> Dr. Victor Fried

\*Open to PhD Students Only

**CELL BIOLOGY**

CRN #	Catalog #	Credits	Title/Instructor	Day	Time	Location
14855	CBAM 1320	3	<b>Lectures in Histology</b> <i>Dr. Ken Lerea (Limit = 50)</i>	Mon. & Wed.	4:30-5:50 pm	In-Person: Chouake
14856	CBAM 1330	2	<b>Laboratory in Histology</b> <i>Dr. Ken Lerea</i> <b>(Enrollment Limit = 20; co-req CBAM 1320)</b>	Mon. & Wed.	6:00-7:50 pm	In-Person: MEC 309
17217	CBAM 1420	6	<b>Medical Histology-Cell Biology</b> <i>Dr. Ken Lerea &amp; staff</i> <b>(PHD students only)</b>	Medical School course; follows different schedule		
17218	CBAM 8020	1	<b>Research Seminar</b> <i>Dr. Victor Fried</i>	Wednesday	2:00-2:50 pm	In-Person: BSB 210
17219	CBAM 7101	1	<del><b>Novel Mechanisms in Protein Synthesis</b></del> <i>Dr. Victor A. Fried</i> <del><i>Enrollment Limit = 18</i></del> <del><b>(second year MS or Ph.D. students only;</b></del> <del><b>Biochem I required)</b></del> <b>CANCELLED</b>	Friday	11:00-1:00 pm	In-Person: BSB 210

**RESEARCH AND THESIS COURSES**

CRN #	Catalog #	Credits	Title/Instructor
17220	CBAM 8311	1	Teaching Assistance in Cell Biology and Anatomy Dr. Victor Fried
17221	CBAM 8312	2	Teaching Assistance in Cell Biology and Anatomy Dr. Victor Fried
17222	CBAM 8320	2	Teaching Assistance Histology Dr. Ken Lerea
17223	CBAM 9110	1	Research Rotation in Cell Biology & Neuroscience* Dr. Joseph Etlinger
17224	CBAM 9200	1	Research Techniques in Cell Biology* Dr. Victor Fried
17226	CBAM 9800	1-5	Master's Thesis Research Dr. Victor Fried
17227	CBAM 9900	1	Doctoral Dissertation Research* Dr. Victor Fried

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**MICROBIOLOGY AND IMMUNOLOGY**

CRN #	Catalog #	Credits	Title/Instructor	Day	Time	Location
17228	MCRM 1010	4	<b>General Microbiology I</b> <i>Dr. S. Bakshi, Dr. R. Tiwari &amp; staff</i>	Mon. & Wed.	4:00-5:50 pm	Hybrid: BSB 307 and Online
17231	MCRM 2010	2	<b>Basic Immunology</b> <i>Drs. Raj Tiwari, Jan Geliebter &amp; Carl Hamby</i>	Tuesday	4:00-5:50 pm	Hybrid: BSB 307 and Online
17238	MCRM 7010	1-2	<b>Directed Readings in Microbiology</b> <i>Topic and Instructor - To Be Arranged</i> <i>Dr. S. Bakshi</i>		To Be Arranged	
<del>17239</del>	<del>MCRM 7200</del>	2	<del><b>Current Topics in Microbiology &amp; Immunology: Systems Approaches to</b></del> <del><i>Dr. Dana Mordue</i></del> <b>CANCELLED</b>	Thursday	4:00-5:50 pm	Hybrid: BSB 307 and Online
17240	MCRM 8020	1	<b>Departmental Seminar</b> <i>Dr. Raj Tiwari</i>	Friday	12:00-12:50 pm	Hybrid: BSB 307 and Online
<del>17241</del>	<del>MCRM 7101</del>	1	<del><b>Selected Topics in Microbiology &amp; Immunology: Systems Approaches to Infectious Diseases</b></del> <b>CANCELLED</b> <del><i>Dr. Dana Mordue</i></del> <del><i>Enrollment Limit = 18</i></del>	Thursday	4:00-5:50 pm	Hybrid: BSB 307 and Online

**RESEARCH AND THESIS COURSES**

CRN #	Catalog #	Credits	Title/Instructor
17242	MCRM 8311	1	Teaching Assistance in Microbiology and Immunology Dr. Raj Tiwari
17243	MCRM 8312	2	Teaching Assistance in Microbiology and Immunology Dr. Raj Tiwari
17244	MCRM 9110	1	Research Rotation in in Microbiology and Immunology * Dr. Raj Tiwari
17245	MCRM 9200	1	Research Techniques in in Microbiology and Immunology * Dr. Raj Tiwari
17247	MCRM 9800	1-5	Master's Thesis Research Dr. Raj Tiwari
17248	MCRM 9900	1	Doctoral Dissertation Research* Dr. Raj Tiwari

\*Open to PhD Students Only

**PATHOLOGY**

CRN #	Catalog #	Credits	Title/Instructor	Day	Time	Location
17262	PATM 1050	2	<b>Conceptual Pathology</b> <i>Dr. Tetyana Cheairs</i> <i>(PhD students &amp; MS students (with instructor's permission only); co-req PATM 1080 )</i>		TBD	In-Person: BSB 414
17263	PATM 1080	3	<b>Introduction to Pathology</b> <i>Dr. Tetyana Cheairs</i>	Thursday	4:30-7:20	Hybrid: BSB 414
17264	PATM 1110	3	<b>Fundamentals of Animal Research</b> <i>Dr. Sulli Popilskis</i> <i>(\$515 Lab Fee; Enrollment Limit = 12)</i>	Mon. & Wed.	5:00-7:50 pm	In-Person: BSB 711, 712
17265	PATM 7010	1-2	<b>Directed Readings in Pathology</b> <i>Topic and Instructor - To Be Arranged</i> <i>Dr. Tetyana Cheairs</i>		To Be Arranged	
17266	PATM 8010	1	<b>Journal Club*</b> <i>Dr. Tetyana Cheairs</i>	Wednesday	1:00 - 1:50 pm	Hybrid: Classroom TBD
17267	PATM 7101	1	<b>Selected Topics in Cancer Biology</b> <i>Dr. Dazhong Xu</i> <i>Enrollment Limit = 18</i>	Tuesday	6:00 -7:50 pm	In Person: BSB 414

**RESEARCH AND THESIS COURSES**

CRN #	Catalog #	Credits	Title/Instructor
17268	PATM 8311	1	<b>Teaching Assistance in Pathology</b> Dr. Tetyana Cheairs
17269	PATM 8312	2	<b>Teaching Assistance in Pathology</b> Dr. Tetyana Cheairs
17270	PATM 9110	1	<b>Research Rotation in in Pathology *</b> Dr. Tetyana Cheairs
17271	PATM 9200	1	<b>Research Techniques in in Pathology *</b> Dr. Tetyana Cheairs
17273	PATM 9800	1-5	<b>Master's Thesis Research</b> Dr. Tetyana Cheairs
17274	PATM 9900	1	<b>Doctoral Dissertation Research*</b> Dr. Tetyana Cheairs

\*Open to PhD Students Only

**PHARMACOLOGY**

<b>CRN #</b>	<b>Catalog #</b>	<b>Credits</b>	<b>Title/Instructor</b>	<b>Day</b>	<b>Time</b>	<b>Location</b>
17278	PHRM 1010	4	<b>Pharmacology I</b> <i>Dr. Charles T. Stier</i>	Tues. & Thurs.	4:00-5:50 pm	Hybrid: BSB 511 and Online
17276	PHRM 2110	2	<b>Selected Topics In Neuropharmacology</b> <i>Dr. C. Andrew Powers</i>	Monday	4:00-5:50 pm	Hybrid: BSB 511 and Online
17277	PHRM 7010	1-2	<b>Directed Readings in Pharmacology</b> <i>Topic and Instructor - To Be Arranged</i> <i>Dr. Charles T. Stier</i>		To Be Arranged	
17279	PHRM 7101	1	<b>Selected Topics in Pharmacology</b> <i>Dr. Austin Guo</i> <i>Enrollment Limit = 12</i>	Thursday	2:00-3:50 pm	In-Person: Room 511
17280	PHRM 8010	1	<b>Journal Club</b> <i>Dr. Sachin Gupte</i>	Wednesday	3:00-3:50 pm	Hybrid: BSB Room 511 and Online

**RESEARCH AND THESIS COURSES**

<b>CRN #</b>	<b>Catalog #</b>	<b>Credits</b>	<b>Title/Instructor</b>	
17281	PHRM 8311	1	<b>Teaching Assistance in Pharmacology</b>	<b>Dr. Sachin Gupte</b>
17282	PHRM 8312	2	<b>Teaching Assistance in Pharmacology</b>	<b>Dr. Sachin Gupte</b>
17283	PHRM 9110	1	<b>Research Rotation in in Pharmacology *</b>	<b>Dr. Sachin Gupte</b>
17284	PHRM 9200	1	<b>Research Techniques in in Pharmacology *</b>	<b>Dr. Sachin Gupte</b>
17286	PHRM 9800	1-5	<b>Master's Thesis Research</b>	<b>Dr. Charles T. Stier</b>
17287	PHRM 9900	1	<b>Doctoral Dissertation Research*</b>	<b>Dr. Sachin Gupte</b>

\*Open to PhD Students Only

**PHYSIOLOGY**

CRN #	Catalog #	Credits	Title/Instructor	Day	Time	Location
17288	PHYM 1010	4	<b>Mammalian Physiology I</b> <i>Dr. Marcello Rota, Dr. Brian Ratliff</i>	Mon. & Wed.	4:00-5:50 pm	Hybrid: Online and In-Person (Cooke)
14873	PHYM 1015	4	<b>Mammalian Physiology I - AMP</b> <b>Open to AMP Students Only</b> <i>Dr. Marcello Rota, Dr. Brian Ratliff</i>	Mon. & Wed.	4:00-5:50 pm	Hybrid: Online and In-Person (Cooke)
17290	PHYM 7010	1-2	<b>Directed Readings in Physiology</b> <i>Topic and Instructor - To Be Arranged</i> <i>Dr. Carl Thompson</i>		To Be Arranged	
17291	PHYM 8010	1	<b>Journal Club</b> <i>Dr. Christopher Leonard</i>	Monday	12:00-12:50 pm	Hybrid: BSB 609 and Online
17292	PHYM 8020	1	<b>Seminar/Research Rounds *</b> <i>Dr. Carl Thompson</i>		To Be Arranged	

**RESEARCH AND THESIS COURSES**

CRN #	Catalog #	Credits	Title/Instructor
17293	PHYM 8311	1	<b>Teaching Assistance in Physiology</b> Dr. Carl Thompson
17294	PHYM 8312	2	<b>Teaching Assistance in Physiology</b> Dr. Carl Thompson
17295	PHYM 9110	1	<b>Research Rotation in Physiology*</b> Dr. Carl Thompson
17296	PHYM 9200	1	<b>Research Techniques in Physiology*</b> Dr. Carl Thompson
17298	PHYM 9800	1-5	<b>Master's Thesis Research</b> Dr. Carl Thompson
17299	PHYM 9900	1	<b>Doctoral Dissertation Research*</b> Dr. Carl Thompson

\*Open to PhD Students Only

**BASIC MEDICAL SCIENCES**

CRN #	Catalog #	Credits	Title/Instructor	Day	Time	Location
17301	BMSM 3510	2	<b>Life in Biomedical Research I</b> <i>Dr. Jonathan Fisher</i> <i>(PhD students only)</i> PERMISSION OF INSTRUCTOR REQUIRED FOR ALL OTHER STUDENTS	Tuesday	10:00-11:50 am	Hybrid: BSB 609 and Online
14853	BMSM 8030	1	<b>Scientific Writing</b> Linked to BMSM 8041 and PERMISSION OF INSTRUCTOR REQUIRED COURSE BEGINS IN JULY	TBD	TBD	Hybrid: BSB 609 and Online
14854	BMSM 8041	1	<b>Critical Analysis</b> <i>Dr. John Pinto &amp; Ms. Amy Stermer</i> PERMISSION OF INSTRUCTOR REQUIRED COURSE BEGINS IN JULY	TBD	TBD	Hybrid: BSB 609 and Online
17302	BMSM 8050	1	<b>Graduate Research Workshop</b> <i>Dr. Victor Fried &amp; Dr. Ken Lerea</i> PERMISSION OF INSTRUCTOR REQUIRED Open to MS Track B Thesis Students Only	TBD	TBD	Hybrid: BSB 210 and Online
17303	BMSM 8400	3	<b>Internship in the Biomedical Sector</b> (PSM students only) <i>Dr. Dana Mordue</i> PERMISSION OF INSTRUCTOR REQUIRED		To Be Arranged	

**RESEARCH AND THESIS COURSES**

CRN #	Catalog #	Credits	Title/Instructor
17304	BMSM 9110	1	<b>Research Rotation (1st year IPP students)*</b> Dr. Tetyana Cheairs
17306	BMSM 9800	1-5	<b>Master's Thesis Research</b> Dr. Austin Guo
17307	BMSM 9920	1	<b>Research for Exchange Students</b> Dr. Marina K. Holz

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**MAINTENANCE OF MATRICULATION**

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<b>CRN #</b>	<b>Catalog #</b>	<b>Credits</b>	<b>Title/Instructor</b>	<b>Day</b>	<b>Time</b>	<b>Room</b>
17300	BMSM 1000	0	\$100 plus appropriate registration fees			