

## SPRING SEMESTER ELECTIVES

### Biochemistry and Molecular Biology

<b>Course Name and Number</b>	<b>Credit Hrs</b>
Biochem & Molec Bio Seminar (GBCH 6020)*	1
Principles of Genetics (GBCH 7170)	4
Medical Metabolic Biochem (GBCH 7520)	5
Molecular Basis Pediatric Disease (GBCH 6110) <sup>1</sup>	1
Topics in Pediatric Research (GBCH 4060) <sup>2</sup>	1
Introduction to Bioinformatics (GBCH-7230)	3
Cases in Research Ethics (GBCH 7590)	2
Methods Biochem/Mol Biol (GBCH-7580)	2

### Structural and Cellular Biology

<b>Course Name and Number</b>	<b>Credit Hrs</b>
Signal Transduction/Hormone (ANAT 7560)	2
Anatomy Research Sem II (ANAT-7130) <sup>3</sup>	1
Advances in Anatomical Sci II (ANAT 7250) <sup>3</sup>	1
Graduate Neuroscience (ANAT 7575)*	6
Graduate Histology (ANAT 7055) <sup>4</sup>	5

### Microbiology and Immunology

<b>Course Name and Number</b>	<b>Credit Hrs</b>
Advanced Immunology (MIIM 7620) <sup>5</sup>	2
Topics in Microbiology (MIIM 7030)*	1
Responsible Conduct Res (MIIM 7400)	2
Advanced Research Methods (MIIM 7220) <sup>5</sup>	2
Medical Parasitology (MIIM 7750)*	3
Vaccine Biology (MIIM 7250) <sup>5</sup>	3
Advanced Virology (MIIM 7120) <sup>5</sup>	4
At the Interface: Immunol. Microb. (MIIM xxxx) <sup>5</sup>	3

### Pathology and Laboratory Medicine

<b>Course Name and Number</b>	<b>Credit Hrs</b>
Advances in Pathology Research (PATH 6200) <sup>7</sup>	1
Mechanism of Disease II (PATH 6310) <sup>7</sup>	5
Molecular and Cellular Pathobiology (PATH 6400) <sup>7</sup>	4

### Pharmacology

<b>Course Name and Number</b>	<b>Credit Hrs</b>
Advances in Pharmacology (GPHR 7220)*	1
Medical Pharmacology (GPHR 7260)*	4
Principles of Pharmacology (GPHR 7240)*	2
Pharmacology Seminar (GPHR 7200)*	1
Neuropharmacology (GPHR 7040)*	2
Environ Pharm & Medicine (GPHR 7160)*	2
Cellular Control Mechanisms (GPHR 7050)*	2
Endocrine Pharmacology (GPHR 7060)*	2

### Physiology

<b>Course Name and Number</b>	<b>Credit Hrs</b>
Renal Physiology (GPSO 7320) <sup>6</sup>	3
Vascular Physiology (GPSO 7600) <sup>6</sup>	3
Membrane Physiology (PHYS 6250) <sup>6</sup>	2
Translational Physiology II (GPSO 7650-01)	2
Signal Transduction/Hormone (PHYS 7560)	2

(Two semester course, but not required to take both courses)  
(cross-listed as ANAT 7560)

\* Enrollment restricted to students in the Track of the Department offering the course

<sup>1</sup> An extensive 11-week course that meets M-F from 8-5.

<sup>2</sup> Requires clinic time at Lakefront (student must provide their own transportation; early registration required for scheduling clinic time; students should contact Department of Biochemistry by November 30<sup>th</sup> if they are interested. Students must attend all Medicine Grand Rounds (Wed 12-1p), an elective Grand Rounds (times vary am and pm week-to-week) and a discussion (Fridays 1-2p)

<sup>3</sup> Classes and labs begin in Fall 2018, but enrollment is in Spring. Priority given to MS Anatomy students because this course is a core requirement for their degree. Contact Dr. Ettarh.

<sup>4</sup> SCB Students have priority; open to BMS students if space is available. Contact course instructor.

<sup>5</sup> Classes and labs begin in Fall 2018, but enrollment is in Spring. Priority given to MS Anatomy students because this course is a core requirement for their degree. Contact Dr. Ettarh.

<sup>6</sup> Micro students have priority; open to BMS students if space is available. Contact course instructor.

<sup>7</sup> Physiology students have priority; open to BMS students if space is available. Contact course instructor.

<sup>8</sup> Pathology and Laboratory Medicine students have priority. Open to BMS students if space is available. Contact course instructor.