

CURRICULUM FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY MASTERS PROGRAM

Fall 1	Credits
G715 Biomedical Science I – Biochemical Basis of Biological Processes	3
G716 Biomedical Science II – Molecular Biology and Genetics	3

Spring 1	
G655 Research/Communication/Seminar	1

*Students must take at least **two of the six** 2-credit Biochemistry “core” courses (G805, 807, 817, 848, 852, 825) shown below (from the Spring year 1 IBMG modular electives or offered in Fall 2).*

<u>Spring</u>	
G817 Molecular basis of cell structure and function	2
G852 Concepts of cancer biology	2
G807 Structural and chemical biology	2
G848 Bioinformatic applications to proteomics and genomics	2

<u>Fall 2</u>	
G805 Diabetes and obesity	2
G825 Advanced molecular biology	2

Fall 2	
G505 Responsible Conduct of Research	1
G855 Experimental Design and Research Biostatistics	1
Seminar B890	2

Total credits of coursework	15 credits
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B855 Research project	15 credits
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Work in the field of the candidate's thesis.

Emphasis on ability to pursue research with relative independence and responsibility.

TOTAL CREDITS for DEGREE	30 credits
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Notes:

- *Students will be enrolled for credit in B890 in year 2 in which they will present a seminar as well as attend all student and faculty seminars. Student seminars will generally be of a "journal club" format, where current, published work in the field of biochemistry is presented.*
- *After choosing a laboratory for thesis research a thesis advisory committee consisting of at least 3 faculty members, of which at least one must be from the Department of Biochemistry and Molecular Biology will be formed with the approval of the thesis advisor and departmental chairperson.*
- *A thesis will be written and successfully defended to the thesis committee.*