

**Anatomy and Cell Biology Graduate Program  
Course Requirements by Track**

Cancer Biology Track			Developmental and Stem Cell Biology Track			Molecular Medicine and Gene Therapy Track		
Course #	Course Name	Semester Hours	Course #	Course Name	Semester hours	Course #	Course Name	Semester Hours
<b>Fall 1st Year - Biosciences Curriculum</b>								
156:201	Principles in Molecular and Cell Biology	4	156:201	Principles in Molecular and Cell Biology.	4	156:201	Principles in Molecular and Cell Biology	4
060:216	Mechanisms of Cell Growth and Development (Cell Bio II)	3	060:216	Mechanisms of Cellular Organization (Cell Bio I)	3	060:216	Mechanisms of Cellular Organization (Cell Bio I).	3
156:265	Biosciences Seminar	1	156:265	Biosciences Seminar	1	156:265	Biosciences Seminar	1
156:302	Biosciences Research (Lab Rotations)		156:302	Biosciences Research (Lab Rotations)		156:302	Biosciences Research (Lab Rotations)	
<b>Spring 1st Year - Biosciences Curriculum</b>								
060:225	Mechanisms of Cell Growth and Development (Cell Bio II)	3	060:225	Mechanisms of Cell Growth and Development (Cell Bio II)	3	060:225 OR 142:215	Mechanisms of Cell Growth and Development (Cell Bio II) - OR Molecular Biology of Gene Expression	3
156:265	Biosciences Seminar	1	156:265	Biosciences Seminar	1	156:265	Biosciences Seminar	1
156:302	Biosciences Research (Lab Rotations)		156:302	Biosciences Research (Lab Rotations)		156:302	Biosciences Research (Lab Rotations)	
650:270	Responsible Conduct in Research	1	650:270	Responsible Conduct in Research	1	650:270	Responsible Conduct in Research	1
069:270	Elective - Preferred: Pathogenesis of Major Human Diseases	3		Elective **	3	069:270	Elective - Preferred: Pathogenesis of Major Human Diseases	3
<b>* Summer 1st Year - Anatomy and Cell Biology Curriculum</b>								
060:206	Graduate Research in Anatomy and Cell Biology	arr	060:206	Graduate Research in Anatomy and Cell Biology	arr	060:206	Graduate Research in Anatomy and Cell Biology	arr
060:203	Gross Human Anatomy for Graduate Students (Optional)		060:203	Gross Human Anatomy for Graduate Students (Optional)		060:203	Gross Human Anatomy for Graduate Students (Optional)	
<b>Fall 2nd Year - Anatomy and Cell Biology Curriculum</b>								
060:204	Survival Skills for a Research Career	1	060:204	Survival Skills for a Research Career	1	060:204	Survival Skills for a Research Career	1
060:224	Graduate Student Seminar	1	060:224	Graduate Student Seminar	1	060:224	Graduate Student Seminar	1
060:206	Graduate Research in Anatomy and Cell Biology	arr	060:206	Graduate Research in Anatomy and Cell Biology	arr	060:206	Graduate Research in Anatomy and Cell Biology	arr
060:230	Molecular Basis of Vertebrate Development (odd years)	2	060:230	Molecular Basis of Vertebrate Development (odd years)	2	072:153 OR 061:208	Graduate Human Physiology (5 sh) OR Immunology I (3 s.h.) & Elective ** (3 s.h.)	5-6
	Elective **	3	127:150	Elective - Preferred: Genetic Analysis of Biological Systems.	3			
<b>Spring 2nd Year - Anatomy and Cell Biology Curriculum</b>								
060:224	Graduate Student Seminar	1	060:224	Graduate Student Seminar	1	060:224	Graduate Student Seminar	1
060:206	Graduate Research in Anatomy and Cell Biology	arr	060:206	Graduate Research in Anatomy and Cell Biology	arr	060:206	Graduate Research in Anatomy and Cell Biology	arr
142:215	Molecular Biology of Gene Expression	3	142:215	Molecular Biology of Gene Expression	3	060:205	General Histology for Graduate Students ***	4

\* Students interested in studying or teaching Gross Anatomy (\$1,200 added to stipend per semester) should take:  
Gross Human Anatomy for Graduate Students (Course #: 060:203; 6 semester hours) during the summer of their first or second year

\*\* Unspecified electives: Visit <http://www.medicine.uiowa.edu/biosciences/curriculum/electives.html> for further information on electives that may be chosen.

\*\*\* Students may wish to take Human Organ Systems (050:240) in place of Graduate Human Physiology (072:153) and Graduate Histology for Graduate Students (060:205)