

# B.S. HEALTH SCIENCES

## Medical Genomics and Counseling Advisement Area

1/17 JKN

<p><b>Health Science Core Requirements</b> (26 cr hrs)</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Biology 114</td><td>Concepts in Biology 1</td><td>4</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 173</td><td>Anatomy &amp; Physiology 1</td><td>4</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 174</td><td>Anatomy &amp; Physiology 2</td><td>4</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 208</td><td>Medical Terminology</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 242</td><td>Microbiology</td><td>4</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 271</td><td>Cell Biology</td><td>4</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 233</td><td>Human Genetics</td><td>3</td><td><input type="checkbox"/></td></tr> </table>	Biology 114	Concepts in Biology 1	4	<input type="checkbox"/>	Biology 173	Anatomy & Physiology 1	4	<input type="checkbox"/>	Biology 174	Anatomy & Physiology 2	4	<input type="checkbox"/>	Biology 208	Medical Terminology	3	<input type="checkbox"/>	Biology 242	Microbiology	4	<input type="checkbox"/>	Biology 271	Cell Biology	4	<input type="checkbox"/>	Biology 233	Human Genetics	3	<input type="checkbox"/>	<p><b>Related Core Requirements</b> (11cr hrs)</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Chem 115</td><td>Chem for Sciences 1</td><td>4</td><td><input type="checkbox"/></td></tr> <tr><td>Chem 116</td><td>Chem for Sciences 2</td><td>4</td><td><input type="checkbox"/></td></tr> <tr><td>Math 141</td><td>Intro Statistics</td><td>3</td><td><input type="checkbox"/></td></tr> </table>	Chem 115	Chem for Sciences 1	4	<input type="checkbox"/>	Chem 116	Chem for Sciences 2	4	<input type="checkbox"/>	Math 141	Intro Statistics	3	<input type="checkbox"/>																																																								
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<p><b>Health Science Electives</b> (15 cr hr)</p> <p><b>For the Medical Genomics &amp; Counseling Certificate select courses indicated with *</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Biology 332</td><td>*Genetics</td><td>3</td><td><input type="checkbox"/></td><td>Biology 361</td><td>Comp. Vert. Anatomy</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 333</td><td>*Molecular Biology</td><td>3</td><td><input type="checkbox"/></td><td>Biology 364</td><td>Vertebrate Histology</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 435</td><td>*Bioinformatics</td><td>3</td><td><input type="checkbox"/></td><td>Biology 411</td><td>Radiation Biology</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 489</td><td>*Topics-Medical Genetics</td><td>3</td><td><input type="checkbox"/></td><td>Biology 431</td><td>Developmental Biology</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 390</td><td>*Research in Biology OR</td><td>3</td><td><input type="checkbox"/></td><td>Biology 442</td><td>Virology</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 490</td><td>Internship in Bio.</td><td></td><td></td><td>Biology 445</td><td>Pharmacology for HS</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td></td><td></td><td></td><td></td><td>Biology 470</td><td>Medical Parasitology</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td></td><td></td><td></td><td></td><td>Biology 472</td><td>Animal Cell Physiology</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td></td><td></td><td></td><td></td><td>Biology 473</td><td>Cancer Biology</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td></td><td></td><td></td><td></td><td>Biology 476</td><td>Neurophysiology</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 342</td><td>Medical Microbiology</td><td>3</td><td><input type="checkbox"/></td><td>Biology 480</td><td>Comp. Animal Physiology</td><td>3</td><td><input type="checkbox"/></td></tr> <tr><td>Biology 343</td><td>Immunology</td><td>3</td><td><input type="checkbox"/></td><td></td><td></td><td></td><td></td></tr> </table>		Biology 332	*Genetics	3	<input type="checkbox"/>	Biology 361	Comp. Vert. Anatomy	3	<input type="checkbox"/>	Biology 333	*Molecular Biology	3	<input type="checkbox"/>	Biology 364	Vertebrate Histology	3	<input type="checkbox"/>	Biology 435	*Bioinformatics	3	<input type="checkbox"/>	Biology 411	Radiation Biology	3	<input type="checkbox"/>	Biology 489	*Topics-Medical Genetics	3	<input type="checkbox"/>	Biology 431	Developmental Biology	3	<input type="checkbox"/>	Biology 390	*Research in Biology OR	3	<input type="checkbox"/>	Biology 442	Virology	3	<input type="checkbox"/>	Biology 490	Internship in Bio.			Biology 445	Pharmacology for HS	3	<input type="checkbox"/>					Biology 470	Medical Parasitology	3	<input type="checkbox"/>					Biology 472	Animal Cell Physiology	3	<input type="checkbox"/>					Biology 473	Cancer Biology	3	<input type="checkbox"/>					Biology 476	Neurophysiology	3	<input type="checkbox"/>	Biology 342	Medical Microbiology	3	<input type="checkbox"/>	Biology 480	Comp. Animal Physiology	3	<input type="checkbox"/>	Biology 343	Immunology	3	<input type="checkbox"/>				
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**General Education Points (tentative)**

<p><b>Goal 1: Communication (7 GEPs, 3 departments)</b></p> <p><u>ENG 101</u> Foundations of Coll Writing 3</p> <p><u>BIOL208</u> Medical Terminology 1</p> <p><u>CHEM341</u> Biochemistry 1</p> <p>_____</p>	<p><b>Goal 6: Social Sciences (5 GEPs, 2 departments)</b></p> <p><u>PSYCH101</u> General Psychology 3</p> <p><u>SOC 211</u> Principles of Sociology 3</p>
<p><b>Goal 2: Information Literacy (2 GEPs, 1 dept.)</b></p> <p>_____</p> <p>_____</p>	<p><b>Goal 7: Arts &amp; Humanities (5 GEPs, 2 depts.)</b></p> <p>_____</p> <p>_____</p> <p>_____</p>
<p><b>Goal 3: Analytical/Quantitative (5 GEPs, 2 dept)</b></p> <p><u>BIOL 114</u> Concepts of Biology 1</p> <p><u>MATH 123</u> Essentials Calculus 3</p> <p><u>MATH 141</u> Intro to Statistics 3</p>	<p><b>Goal 8: Second Language (2 GEPs, 1 dept.)</b></p> <p><u>BIOL 208</u> Medical Terminology 2</p>
<p><b>Goal 4: Cultures &amp; Diversity (5 GEPs, 2 depts.)</b></p> <p><u>PHIL290</u> Medical Ethics 3</p> <p>_____</p> <p>_____</p>	<p><b>Goal 9: Healthy Living (2 GEPs, 1 dept.)</b></p> <p><u>BIOL 205</u> Intro to Nutrition 2</p>
<p><b>Goal 5: Natural Sciences (5 GEPs, 2 depts.)</b></p> <p><u>BIOL 114</u> Concepts of Biology 1 3</p> <p><u>CHEM 115</u> Chem for the Sciences 1 3</p>	<p><b>Goal 10: Citizenship (2 GEPs, 1 dept.)</b></p> <p>_____</p> <p>_____</p>

**Electives + Total Credit Accounting**

Total number of credit hours must be at least 120.

**Required Credits from Page 1 = 63**

List non-core courses that count for General Education above + all electives

<u>ENG 101</u> Foundations of Col Writing	3	_____	_____
_____	_____	_____	_____
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**Other Credits From Table Above = \_\_\_\_\_**