

**Springfield College**  
**Academic Advising Center**  
**413/748-3379 ▼ Administration 112**

**Choosing a Natural Sciences General Education Course (2009 – 2010)**

Choosing a Natural Sciences General Education course is an important decision based on your major (or the major you hope to pursue) and your abilities. Generally speaking, science courses at Springfield College can be classified according to three levels of intensity or difficulty: basic, moderate, and high. Use the information listed below to help you choose the most appropriate course. All of the courses listed, combined with the corresponding laboratory, fulfill the Natural Sciences General Education Program category. As you can see, though, some majors require a specific course or courses. While your major may require a full-year sequence, only one semester is required to fulfill the General Education category. Note that some courses may not be offered each semester.

*rev. 6/4/09*

<i>Course Title</i>	<i>Intensity/ Difficulty</i>	<i>Who the Course Is Appropriate For</i>
BIOL 101, Basic Concepts of Modern Biology <ul style="list-style-type: none"> <li>• <i>Corresponding lab is BIOL 102</i></li> </ul>	Basic/ Introductory	Can be taken any semester by students simply wishing to fulfill their science requirement
CHEM 101, Chemistry Survey <ul style="list-style-type: none"> <li>• <i>Corresponding lab is CHEM 102</i></li> </ul>	Basic/ Introductory	Can be taken any semester by students simply wishing to fulfill their science requirement  Required for the following majors: <ul style="list-style-type: none"> <li>• Applied Exercise Science</li> <li>• Athletic Training</li> <li>• Health Studies</li> </ul> A selective requirement for Communication Disorders majors and most Occupational Therapy dual degree students
PHSC 105, Physical Science and the Environment <i>(lecture and lab)</i>	Basic/ Introductory	Required for Recreation Management majors who choose the Camp Management option  Can be taken any semester by students simply wishing to fulfill their science requirement  PHSC 105 or PHSC 110 is required for all students completing early childhood education or elementary and special education teacher licensure programs. If it works for your schedule, PHSC 110 is the recommended choice.
PHSC 110, Earth Science <i>(lecture and lab)</i>	Basic/ Introductory	Can be taken any semester by students simply wishing to fulfill their science requirement.  PHSC 105 or PHSC 110 is required for all students completing early childhood education or elementary and special education teacher licensure programs. If it works for your schedule, PHSC 110 is the recommended choice.

<i>Course Title</i>	<i>Intensity/ Difficulty</i>	<i>Who the Course Is Appropriate For</i>
BIOL 130, Anatomy & Physiology Concepts I BIOL 131, Anatomy & Physiology Concepts II <ul style="list-style-type: none"> <li>• <i>Corresponding labs are BIOL 132 and BIOL 133</i></li> <li>• <i>BIOL 130 is only offered in the fall, and is a prerequisite for BIOL 131</i></li> </ul>	Moderate	Generally taken 1 <sup>st</sup> year by: <ul style="list-style-type: none"> <li>• Applied Exercise Science majors</li> <li>• Athletic Training majors</li> <li>• Dance majors</li> <li>• Emergency Medical Services Mgt. majors</li> <li>• Health Sciences – General Studies</li> <li>• Movement and Sports Studies majors (including physical education teacher preparation)</li> <li>• Students interested in pursuing one of the above majors</li> </ul> Taken 1 <sup>st</sup> or 2 <sup>nd</sup> year by: <ul style="list-style-type: none"> <li>• Health Studies majors</li> <li>• Majority of Occupational Therapy dual degree students</li> <li>• Recreation Management majors who choose the Therapeutic Recreation option</li> <li>• Communication Disorders majors</li> <li>• Many Rehabilitation and Disability Studies majors (depending on concentration)</li> <li>• Students in other majors who wish to fulfill their science requirement</li> </ul>
PHYS 205, Physics for Movement Science <ul style="list-style-type: none"> <li>• <i>Corresponding labs for MOST/PED are PHYS 206 &amp; MOSK 206</i></li> <li>• <i>For AEXS, ATRN, and other majors, the lab is PHYS 207</i></li> </ul>	Moderate	Generally taken 2 <sup>nd</sup> year by: <ul style="list-style-type: none"> <li>• Applied Exercise Science majors</li> <li>• Movement and Sports Studies majors (including physical education)</li> <li>• Athletic Training majors</li> </ul> A selective option for Occupational Therapy dual degree students (1 <sup>st</sup> or 2 <sup>nd</sup> year) <i>Prerequisite: MATH 115, College Algebra (or MATH 125, 131, 140, or 142)</i>
BIOL 121, Bioscience I BIOL 122, Bioscience II <ul style="list-style-type: none"> <li>• <i>Corresponding labs are BIOL 123 and BIOL 124</i></li> <li>• <i>BIOL 121 is only offered in the fall, and is a prerequisite for BIOL 122</i></li> </ul>	High	Generally taken 1 <sup>st</sup> year by: <ul style="list-style-type: none"> <li>• Biology and Sports Biology majors</li> <li>• Physical Therapy majors</li> <li>• Physician Assistant majors</li> <li>• Students interested in pursuing one of the above majors</li> </ul> <ul style="list-style-type: none"> <li>• Students preparing for medical school</li> <li>• Other students who have a strong science background <i>and</i> a serious interest in the course or a major for which the course is required</li> </ul>
CHEM 121, General Chemistry I CHEM 122, General Chem. II <ul style="list-style-type: none"> <li>• <i>Corresponding labs are CHEM 123 and CHEM 124</i></li> <li>• <i>CHEM 121 is only offered in the fall, and is a prerequisite for CHEM 122</i></li> </ul>	High	Generally taken 1 <sup>st</sup> year by: <ul style="list-style-type: none"> <li>• Biology and Sports Biology majors</li> <li>• Physical Therapy majors</li> <li>• Physician Assistant majors</li> <li>• Students interested in pursuing one of the above majors</li> </ul> <ul style="list-style-type: none"> <li>• Students preparing for medical school</li> <li>• Students preparing for the nutrition minor</li> <li>• Other students who have a strong science background <i>and</i> a serious interest in the course or a major for which the course is required</li> </ul> <p style="text-align: center;"><i>Note: Strong mathematic skills are required for success in General Chemistry</i></p>
PHYS 210, General Physics I PHYS 211, General Physics II <ul style="list-style-type: none"> <li>• <i>Corresponding labs are PHYS 210L and 211L</i></li> <li>• <i>Must be begun in the fall</i></li> </ul>	High	Generally taken 2 <sup>nd</sup> or 3 <sup>rd</sup> year by: <ul style="list-style-type: none"> <li>• Biology and Sports Biology majors</li> <li>• Physical Therapy majors</li> <li>• Students preparing for medical school</li> </ul> <i>Prerequisite: MATH 125, Precalculus (or MATH 125, 131, 140, or 142)</i>