

**Springfield College**  
**Office of Academic Advising**  
**413/748-3379 ▼ Administration Building 112**

## Choosing a Quantitative Reasoning General Education Course (2007 – 2008)

Choosing a Quantitative Reasoning General Education course is an important decision based on your major (or the major you hope to pursue) and your abilities. Use the information listed below to help you choose the most appropriate course. Any of the courses listed below fulfill the Quantitative Reasoning category, but as you can see, some majors require that you take a specific course or courses. If your major is not listed, select whichever course is most appropriate for your background. Note that some courses may not be offered each semester, and some courses may be already be filled when you register.

*rev. 5/30/07*

<b>Course Title:</b>	<b>Prerequisite:</b>	<b>Specifically Required For:</b>
MATH 103, Sports Statistics <i>This course is an introduction to statistics, using examples from various sports.</i>	One of the following prerequisites is <b>highly</b> recommended: <ul style="list-style-type: none"> <li>• Math SAT score of 480 or higher</li> <li>• Mathematics assessment recommendation</li> <li>• MATH 90* or equivalent</li> </ul>	
MATH 105, Survey of Mathematics <i>This course is a college-level introduction to algebra, consumer mathematics, geometry, and probability and statistics.</i>	One of the following prerequisites is <b>highly</b> recommended: <ul style="list-style-type: none"> <li>• Math SAT score of 480 or higher</li> <li>• Mathematics assessment recommendation</li> <li>• MATH 90* or equivalent</li> </ul>	<ul style="list-style-type: none"> <li>• American Studies/Elementary Education</li> <li>• English/Elementary Education</li> <li>• Psychology/Early Childhood Education</li> </ul> <p><i>Students in these majors who have already taken MATH 115 or a higher level math course can request approval to substitute that course for 105.</i></p>
MATH 115, College Algebra	One of the following prerequisites is <b>highly</b> recommended: <ul style="list-style-type: none"> <li>• Math SAT score of 480 or higher</li> <li>• Mathematics assessment recommendation</li> <li>• MATH 90* or equivalent</li> </ul>	<ul style="list-style-type: none"> <li>• Applied Exercise Science (because it's a prerequisite for PHYS 205)</li> <li>• Athletic Training (because it's a prerequisite for PHYS 205)</li> <li>• Movement and Sports Studies (because it's a prerequisite for PHYS 205)</li> <li>• Occupational Therapy 5<sup>th</sup>-year programs</li> <li>• Physician Assistant (or MATH 125)</li> </ul> <p><i>All majors that require MATH 115 will accept MATH 125, MATH 131, or MATH 140 instead.</i></p>
MATH 120, Business Math	One of the following prerequisites is <b>highly</b> recommended: <ul style="list-style-type: none"> <li>• Math SAT score of 480 or higher</li> <li>• Mathematics assessment recommendation</li> <li>• MATH 90* or equivalent</li> </ul>	<ul style="list-style-type: none"> <li>• Computer and Information Sciences/Information Systems Concentration (in addition to MATH 131 and MATH 215)</li> </ul> <p><i>Strongly recommended for:</i></p> <ul style="list-style-type: none"> <li>• Business Management</li> </ul>

<b>Course Title:</b>	<b>Prerequisite:</b>	<b>Specifically Required For:</b>
MATH 125, Precalculus Mathematics	Required: <ul style="list-style-type: none"> <li>• MATH 115 or equivalent; <b>or</b></li> <li>• Math SAT score of 480 or higher, with two years of high school algebra (B+ or better) and one year of geometry (B+ or better)</li> </ul>	<ul style="list-style-type: none"> <li>• Physician Assistant (or MATH 115)</li> <li>• One of the options for Biology or Sports Biology (total of two MATH courses required)</li> </ul> <p><i>MATH 125 can also be used for any major that requires MATH 115.</i></p>
MATH 131, Introduction to Calculus with Applications <i>Note: MATH 131 will <u>not</u> prepare you for Calculus II. MATH 131 is generally offered in the fall only.</i>	Required: <ul style="list-style-type: none"> <li>• MATH 125 or equivalent; <b>or</b></li> <li>• Math SAT score of 480 or higher, with B+ or better in high school precalculus or trigonometry</li> </ul>	<ul style="list-style-type: none"> <li>• Computer and Information Sciences/Information Systems Concentration</li> <li>• Physical Therapy (or MATH 140)</li> <li>• One of the options for Biology or Sports Biology (total of two MATH courses required)</li> </ul> <p><i>MATH 131 can also be used for any major that requires MATH 115 or 125.</i></p>
MATH 140, Calculus I <i>Generally offered in the fall only.</i>	Required: <ul style="list-style-type: none"> <li>• MATH 125 or equivalent; <b>or</b></li> <li>• Math SAT score of 480 or higher, with B+ or better in high school Precalculus or trigonometry</li> </ul>	<ul style="list-style-type: none"> <li>• Computer and Information Sciences/Software Development or Game Programming</li> <li>• Mathematics</li> <li>• Mathematics and Computer Technology</li> <li>• One of the options for Biology or Sports Biology (total of two MATH courses required)</li> </ul> <p><i>MATH 140 can also be used for any major that requires MATH 115, 125, or 131.</i></p>
MATH 142, Calculus II <i>Generally offered in the spring only.</i>	Required: <ul style="list-style-type: none"> <li>• MATH 140 or equivalent</li> </ul>	<ul style="list-style-type: none"> <li>• Computer and Information Sciences/Software Development or Game Programming</li> <li>• Mathematics</li> <li>• Mathematics and Computer Technology</li> <li>• One of the options for Biology or Sports Biology (total of two MATH courses required)</li> </ul>
MATH 215, Probability and Statistics	Required: <ul style="list-style-type: none"> <li>• MATH 115 or equivalent; <b>or</b></li> <li>• Math SAT score of 480 or higher, with two years of high school algebra (B+ or better) and one year of geometry (B+ or better)</li> </ul>	<p>The following majors require MATH 215, <b>in addition to</b> other MATH courses:</p> <ul style="list-style-type: none"> <li>• Computer and Information Sciences/Information Systems Concentration</li> <li>• Mathematics</li> <li>• Mathematics and Computer Technology</li> <li>• Physical Therapy (or PSYC 211)</li> <li>• Physician Assistant (or PSYC 211)</li> </ul> <p>MATH 215 is also one of the options for Biology or Sports Biology (total of two MATH courses required).</p>

\* MATH 90 is a non-credit math course designed to prepare you for MATH 103, 105, 115, or 120. It does **not** fulfill the Quantitative Reasoning General Education category. It is generally only offered in the fall.

*For more information about mathematics courses, contact the Math/Physics/Computer Science Department at 413/748-3117, the Academic Advising Office at 413/748-3379, or your advisor.*