

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

Choosing a Quantitative Reasoning General Education Course (2009 – 2010)

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. Keep in mind that some courses may not be offered each semester.

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Course Title:	Prerequisite:	Specifically Required For:
MATH 103, Sports Statistics	One of the following prerequisites is highly recommended: <ul style="list-style-type: none"> • Math SAT score of 480 or higher • Mathematics assessment recommendation • MATH 90* or equivalent 	
MATH 105, Survey of Algebra and Geometry	One of the following prerequisites is highly recommended: <ul style="list-style-type: none"> • Math SAT score of 480 or higher • Mathematics assessment recommendation • MATH 90* or equivalent 	<ul style="list-style-type: none"> • Elementary and special education teacher licensure students majoring in American Studies or English • Early childhood education teacher licensure students <p><i>MATH 105 will not satisfy the requirement for any majors or courses that specifically require MATH 115, College Algebra.</i></p>
MATH 120, Business Mathematics	One of the following prerequisites is highly recommended: <ul style="list-style-type: none"> • Math SAT score of 480 or higher • Mathematics assessment recommendation • MATH 90* or equivalent 	<ul style="list-style-type: none"> • Computer and Information Sciences/Information Systems Concentration (in addition to MATH 131 and MATH 215) <p><i>MATH 120 is numbered higher than MATH 115, College Algebra, but is actually taught at a more introductory level than MATH 115. Students from any major that does not specifically require another MATH course are welcome.</i></p>
MATH 115, College Algebra	One of the following prerequisites is highly recommended: <ul style="list-style-type: none"> • Math SAT score of 480 or higher • Mathematics assessment recommendation • MATH 90* or equivalent 	<ul style="list-style-type: none"> • Applied Exercise Science (because it is a prerequisite for PHYS 205) • Athletic Training (because it is a prerequisite for PHYS 205) • Communication Disorders • Health Science – General Studies • Movement and Sports Studies (because it is a prerequisite for PHYS 205) • Occupational Therapy dual degree programs • Physician Assistant (or MATH 125) • This course (or MATH 120, Business Math) is recommended for the Business Management and Health Services Administration majors. <p><i>All majors that require MATH 115 will accept MATH 125, MATH 131, or MATH 140 instead.</i></p>

Course Title:	Prerequisite:	Specifically Required For:
MATH 125, Precalculus Mathematics	Required: <ul style="list-style-type: none"> • MATH 115 or equivalent; or • 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) 	<ul style="list-style-type: none"> • Physician Assistant (or MATH 115) • One of the options for Biology or Sports Biology (total of two MATH courses required) <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"> • MATH 125 or equivalent; or • Math SAT score of 480 or higher, with B+ or better in high school precalculus or trigonometry and one year of geometry (B+ or better) 	<ul style="list-style-type: none"> • Computer and Information Sciences/Information Systems Concentration • Physical Therapy • One of the options for Biology or Sports Biology (total of two MATH courses required) <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"> • MATH 125 or equivalent; or • Math SAT score of 480 or higher, with B+ or better in high school Precalculus or trigonometry and one year of geometry (B+ or better) 	<ul style="list-style-type: none"> • Computer and Information Sciences/Software Development or Game Programming • Mathematics • Mathematics and Computer Technology • One of the options for Biology or Sports Biology (total of two MATH courses required) <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"> • MATH 140 or equivalent 	<ul style="list-style-type: none"> • Computer and Information Sciences/Software Development or Game Programming • Mathematics • Mathematics and Computer Technology • One of the options for Biology or Sports Biology (total of two MATH courses required)
MATH 201, Contemporary Applications of Math	Required: <ul style="list-style-type: none"> • MATH 115 or equivalent; or • 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) 	The following majors and programs require MATH 215, in addition to other MATH courses: <ul style="list-style-type: none"> • Mathematics • Mathematics and Computer Technology • All elementary and special education teacher licensure programs
MATH 215, Probability and Statistics	Required: <ul style="list-style-type: none"> • MATH 115 or equivalent; or • 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) 	The following majors require MATH 215, in addition to other MATH courses: <ul style="list-style-type: none"> • Computer and Information Sciences/Information Systems Concentration • Mathematics • Mathematics and Computer Technology • Physical Therapy (or PSYC 211) • Physician Assistant (or PSYC 211) <p>MATH 215 is also one of the options for Biology or Sports Biology (total of two MATH courses required).</p>

* MATH 90, Introductory College Mathematics, is a non-credit course designed to prepare you for MATH 103, 105, 120, or 115. 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 Center at 413/748-3379, or your advisor.