

## Math Level Placement Guide

The following is to a guide to which mathematics course(s) you need to take to fulfill not only the University Core, but the requirements of your major. After taking the Math Placement Test and receiving your Math Placement Level, find your Placement Level (1 to 5) and your major in the grid below. There you will see the course you need to take to fulfill your major requirement and a strongly suggested sequence of courses that will help you fulfill your requirement in the most efficient manner.

If you are undeclared follow the advice of what you consider to be your most likely major at this point; it might be wise to postpone your decision to the spring of your first year.

Deviations from the plan below are possible. Make sure you consult with your adviser or department chair before doing so. If you wish to know more about math courses and math placement, please e-mail Lisa Hollman at [Lisa.Hollman@qu.edu](mailto:Lisa.Hollman@qu.edu); if you wish to know more about majoring or minoring in mathematics, please e-mail Jill Shahverdian at [Jill.Shahverdian@qu.edu](mailto:Jill.Shahverdian@qu.edu).

Many of the courses listed below (MA 107, MA 110, MA 140, MA 141, MA 151, MA 170, MA 275) are also taught during summer sessions. MA 107, MA 110, MA 140, MA 170, and MA 275 are available on-line.

Please note the following. MA 106 is a corequisite course for MA 107, MA 109 is a corequisite course for MA 110, and MA 169 is a corequisite course for MA 170. You will need to take both courses at the same time if you received a placement level of a 1 and have the option to do it with a placement level of a 2, if the student feels they can benefit from more support in mathematics. The credits for MA 107 do not fulfill the University Core requirement. MA 107 is a review of algebra designed to prepare you for more advanced Mathematics courses. The courses that do fulfill the University Core requirement are MA 110 (Contemporary Mathematics), MA 140 (Pre-Calculus), MA 170 (Probability and Data Analysis), MA 176 (Baseball and Statistics), MA 141 (Calculus I), MA 151 (Calculus I), MA 206 (Statistics for Behavioral Sciences), MA 229 (Linear Algebra) and MA 275 (Biostatistics). It is possible to receive AP credit for MA 151 (MA 141 can be substituted) and MA 275 with a 4 or 5 on the AP exam in Calculus or Statistics.

## Math Placement Level: 5

Major	Course Sequencing	Core Requirement
<b>COLLEGE OF ARTS AND SCIENCES</b>		
Math, Data Science	MA 151 (Fall First Year), MA 229 (Spring First Year)	MA 151
Chemistry, Biochemistry Biology	MA 141 or MA 151(Fall 1st Year) Additional MA courses recommended, consult your adviser.  MA 141or MA 275 (Fall Second Year)	MA 141
Interdisciplinary Studies (IDS)  Environmental Studies, Environmental Science, Sustainability and Environmental Policy	MA 110 or MA 141 or MA 170 or MA 176 or MA 206 or MA 229 or MA 275 (Spring First Year) The major requires three math courses. One from the list above, one above MA 110 and another at a 200 level or higher.  MA 275	MA 110 Or Higher  MA 275
Psychology Behavioral Neuroscience	MA 170 or MA 176 or MA 141 (Fall First Year) followed by PS 206 (Spring First Year)  MA 141 or MA 151(Pre-Health Track) MA 170 (Self-Directed, Psychological Science)	MA 170
Economics	MA 170 or MA 176 (Fall First Year)	MA 170
All other CAS majors: Criminal Justice, English Gerontology, Justice & Community Engagement, Health, Medicine, & Society, History Game Design and Development, Law In Society, Political Science, Philosophy, Sociology, Hispanic & Latin American Studies	MA 110 or MA 141 or MA 170 or MA 176 or MA 206 or MA 229 or MA 275 (Spring First Year) MA 110 does not prepare you for further study in math. If you plan to complete additional coursework in math you should take MA 141 instead of MA 110. Criminal Justice, Sociology, Political Science, Justice and Community Engagement, and Gerontology recommend MA 206. Health, Medicine, & Society recommends MA 206 or MA 275 If there is a possibility that you will change your major to business, you should take MA 170 or MA 176 instead of MA 110. If you might change to a major in a science, see the requirements below.	MA 110 Or Higher
<b>SCHOOL OF BUSINESS</b>		
3+1 Business Students Accounting, Applied Business, Business Analytics, CIS CIS/Accounting, Finance, Financial Tech, Sport & Entertainment Management, Supply Chain Management, Marketing , Biomedical Marketing Entrepreneurship International Business Business Undeclared	MA 170 (or MA 176 with permission of your adviser) (Fall First Year)       MA 170 (or MA 176 with permission of your adviser) (Spring First Year)	MA 170 or MA 176
<b>SCHOOL OF COMPUTING AND ENGINEERING</b>		
Engineering Civil, Industrial, Mechanical  Software  Computer Science	MA 151 (Fall First Year), unless you have AP credit, in that case take the next calculus class you qualify for. MA 141 (Fall First Year), unless you have AP credit, in that case consult with the Software Engineering program coordinator or your adviser.  BA - MA 141 (Fall First Year) or MA 229 (Spring First Year) BS – MA 141 (Fall First Year)	MA 151  MA 141  MA 141 or MA 229
<b>SCHOOL OF COMMUNICATIONS</b>		
All Majors	MA 110 or MA 141 or MA 170 or MA 176 or MA 206 or MA 229 or MA 275 (Spring First Year) MA 110 does not prepare you for further study in math. If you plan to complete additional coursework in math you should take MA 141 instead of MA 110. If there is a possibility that you will change your major to business or minor in business, you should take MA 170 or MA 176 instead of MA 110.	MA 110 Or Higher
<b>SCHOOL OF HEALTH SCIENCES</b>		
Physical Therapy, AT/PT, Physician Assistant	MA 141 (Fall First Year)	MA 141
Biomedical Sciences, Microbiology/Immunology	MA 140 or MA 141 (Fall First Year)	MA 140 or Higher
Occupational Therapy, Radiologic Sciences, Diagnostic Medical Sonography Athletic Training Health Science Studies, Health Science Undeclared	MA 275 (Fall First Year) except for Athletic Training. Athletic Training takes MA 275 (Fall Second Year) Health Science Studies and Health Science Undeclared can take MA 275 (Fall of First Year or Spring of First Year)	MA 275
<b>SCHOOL OF NURSING</b>		
Nursing	MA 275 (Fall First Year)	MA 275

## Math Placement Level: 4

Major	Course Sequencing	Core Requirement
<b>COLLEGE OF ARTS AND SCIENCES</b>		
Math, Data Science	MA 140 (Fall First Year), MA 151 and MA 229 (Spring First Year)	MA 151
Chemistry, Biochemistry	MA 140 (Fall First Year), MA 141 or MA 151 (Spring First Year) Additional MA courses recommended – consult with your academic adviser	MA 141
Biology	MA 140 (Spring First Year), MA 141 or MA 275 (Fall Second Year)	
Interdisciplinary Studies (IDS)	MA 110 or MA 140 or MA 170 or MA 176 or MA 206 or MA 229 or MA 275 (Spring First Year) The major requires three math courses. One from the list above, one above MA 110 and another at a 200 level of higher.	MA 110 Or Higher
Environmental Studies, Environmental Science, Sustainability and Environmental Policy	MA 275	MA 275
Psychology	MA 170 or MA 176 or MA 140 (Fall First Year) followed by PS 206 (Spring First Year)	MA 110
Behavioral Neuroscience	MA 140 (Pre-Health Track, Self-Directed, Psychological Science)	
Economics	MA 170 or MA 176 (Fall First Year)	MA 170
All other CAS majors: Criminal Justice, Justice & Community Engagement, English, Gerontology, Health, Medicine, & Society, History, Game Design and Development, Law in Society, Political Science, Philosophy, Sociology, Hispanic & Latin American Studies	MA 110 or MA 140 or MA 170 or MA 176 or MA 206 or MA 229 or MA 275 (Spring First Year)  Criminal Justice, Justice & Community Engagement, Sociology, Political Science, and Gerontology recommend MA 206. Health, Medicine, & Society recommends MA 206 or MA 275  MA 110 does not prepare you for further study in math. If you plan to complete additional coursework in math you should take MA 140 instead of MA 110. If there is a possibility that you will change your major to business, you should take MA 170 or MA 176 instead of MA 110. If you might change to a major in a science, see the requirements below.	MA 110 Or Higher
<b>SCHOOL OF BUSINESS</b>		
3+1 Business Students Accounting, Applied Business, Business Analytics, CIS CIS/Accounting, Finance, Financial Tech, Sport & Entertainment Management, Supply Chain Management, Marketing Biomedical Marketing	MA 170 (or MA 176 with permission of your adviser) (Fall First Year)	MA 170 or MA 176
Entrepreneurship International Business Business Undeclared	MA 170 (or MA 176 with permission of your adviser) (Spring First Year)	
<b>SCHOOL OF COMPUTING AND ENGINEERING</b>		
Engineering Civil, Industrial, Mechanical	MA 140 (Fall First Year), MA 151 (Spring First Year)	MA 151
Software	MA 140 (Fall First Year), MA 141 (Spring First Year)	MA 141
Computer Science	BA - MA 140 (Fall First Year), MA 141 or MA 229 (Spring First Year) BS - MA 140 (Fall First Year), MA 141 (Spring First Year)	MA 141 or higher
<b>SCHOOL OF COMMUNICATIONS</b>		
All Majors	MA 110 or MA 140 or MA 170 or MA 176 or MA 206 or MA 229 or MA 275 (Spring First Year)  MA 110 does not prepare you for further study in math. If you plan to complete additional coursework in math you should take MA 140 instead of MA 110. If there is a possibility that you will change your major to business or minor in business, you should take MA 170 or MA 176 instead of MA 110.	MA 110 Or Higher
<b>SCHOOL OF HEALTH SCIENCES</b>		
Physical Therapy, AT/PT, Physician Assistant	MA 140 (Fall First Year), MA 141 (Spring First Year)	MA 141
Biomedical Sciences, Microbiology/Immunology	MA 140 (Fall First Year)	MA 140
Occupational Therapy, Radiologic Sciences, Diagnostic Medical Sonography Athletic Training Health Science Studies, Health Science 360	MA 275 (Fall First Year) except for Athletic Training. Athletic Training takes MA 275 (Fall Second Year) Health Science Studies and Health Science Undeclared can take MA 275 (Fall of First Year or Spring of First Year)	MA 275
<b>SCHOOL OF NURSING</b>		
Nursing	MA 275 (Fall First Year)	MA 275

## Math Placement Level: 3

Major	Course Sequencing	Core Requirement
<b>COLLEGE OF ARTS AND SCIENCES</b>		
Math, Data Science	MA 140 (Fall First Year) , MA 151 and MA 229 (Spring First Year)	MA 151
Chemistry, Biochemistry	MA 140 (Fall First Year), MA 141 or MA 151(Spring First Year) Additional MA courses recommended – consult with your academic adviser.	MA 141
Biology	MA 140 (Spring First Year) , MA 141 or MA 275 (Fall Second Year)	
Interdisciplinary Studies (IDS)	MA 110 or MA 140 or MA 170 or MA 176 or MA 206 (Spring First Year) The major requires three math courses. One from the list above, one above MA 110 and another at a 200 level of higher.	MA 110 Or Higher
Environmental Studies, Environmental Science, Sustainability and Environmental Policy	MA 107 (Fall First Year) MA 275 (Spring First Year)	MA 275
Psychology	MA 170 or MA 176 or MA 140 (Fall First Year) followed by PS 206 (Spring First Year)	MA 110
Behavioral Neuroscience	MA 140 (Pre-Health Track, Self-Directed, Psychological Science)	
Economics	MA 170 or MA 176 (Fall First Year)	
All other CAS majors: Criminal Justice English, Justice & Community Engagement, Gerontology, Health, Medicine, & Society, History, Game Design and Development Law in Society Political Science Philosophy Sociology, Hispanic & Latin American Studies	MA 110 or MA 140 or MA 170 or MA 176 or MA 206 (Spring First Year)  MA 110 does not prepare you for further study in math. If you plan to complete additional coursework in math you should take MA 140 instead of MA 110.  Criminal Justice, Sociology, Health, Medicine, & Society, Justice & Community Engagement, Political Science, and Gerontology recommend MA 206.  If there is a good possibility that you will change your major to business, you should take MA 170 or MA 176 instead of MA 110. If you might change to a major in a science, see the requirements below.	MA 110 Or Higher
<b>SCHOOL OF BUSINESS</b>		
3+1 Business Students Accounting, Applied Business, Business Analytics, CIS CIS/Accounting Finance, Financial Tech, Sport & Entertainment Management, Supply Chain Management ,Marketing Biomedical Marketing Entrepreneurship International Business Business Undeclared	MA 170 (or MA 176 with permission of your adviser) (Fall First Year)       MA 170 (or MA 176 with permission of your adviser) (Spring First Year)	MA 170 or MA 176
<b>SCHOOL OF COMPUTING AND ENGINEERING</b>		
Engineering Civil, Industrial, Mechanical	MA 140 (Fall First Year), MA 151 (Spring First Year)	MA 151
Software Computer Science	MA 140 (Fall First Year), MA 141 (Spring First Year) BA - MA 140 (Fall First Year) , MA 141 or MA 229 (Spring First Year) BS - MA 140 (Fall First Year) , MA 141 (Spring First Year)	MA 141 MA 141 or higher
<b>SCHOOL OF COMMUNICATIONS</b>		
All Majors	MA 110 or MA 140 or MA 170 or MA 176 or MA 206 (Spring First Year)  MA 110 does not prepare you for further study in math. If you plan to complete additional coursework in math you should take MA 140 instead of MA 110. If there is a good possibility that you will change your major to business or minor in business, you should take MA 170 or MA 176 instead of MA 110.	MA 110 Or Higher
<b>SCHOOL OF HEALTH SCIENCES</b>		
Physical Therapy, AT/PT, Physician Assistant	MA 140 (Fall First Year), MA 141 (Spring First Year)	MA 141
Biomedical Sciences, Microbiology/Immunology	MA 140 (Fall First Year)	MA 140 Or Higher
Occupational Therapy Radiologic Sciences, Diagnostic Medical Sonography Athletic Training Health Science Studies, Health Science Undeclared	MA 107 (Fall First Year) MA 275 (Spring First Year) MA 170 (Fall First Year) MA 275 (Spring First Year)  MA 170 (Fall First Year) and MA 275 (Fall of 2 <sup>nd</sup> Year) MA 107 (Fall First Year) and MA 275 (Spring First Year)	MA 275
<b>SCHOOL OF NURSING</b>		
Nursing	MA 206 (Fall First Year)	MA 206

## Math Placement Level: 2

Major	Course Sequencing	Core Requirement
	<b>COLLEGE OF ARTS AND SCIENCES</b>	
Math, Data Science	MA 107 (Fall First Year), MA 140 (Spring First Year), MA 151 (Fall Second Year)	MA 151
Chemistry, Biochemistry Biology	MA 107 (Fall First Year), MA 140 (Spring First Year), MA 141 or MA 151 (Fall 2 <sup>nd</sup> Year), <u>Additional MA courses recommend— consult with academic adviser.</u> MA 107 (Fall First Year), MA 140 (Spring First Year), MA 141 or MA 275 (Fall Second Year)	MA 141
Interdisciplinary Studies (IDS)  Environmental Studies , Environmental Science, Sustainability and Environmental Policy	MA 110 (Spring First Year) MA 170 or MA 176 (Fall Second Year) MA 206 or MA 275(Spring Second Year) <u>Major requires 3 math courses. MA 110, MA 170 or MA 176, &amp; 200 level or higher.</u> MA 107 (Fall First Year) MA 275 (Spring First Year)	MA 110 Or Higher  MA 275
Psychology  Behavioral Neuroscience	MA 170 or MA 176(Fall First Year) followed by PS 206 (Spring First Year)  MA 107(Fall First Year), MA 140 (Spring First Year)	MA 110
Economics	MA 170 or MA 176(Fall First Year)	
All other CAS majors: Criminal Justice English, Gerontology, Health, Medicine, & Society, History Game Design and Development Law in Society Political Science Philosophy, Sociology, Hispanic & Latin American Studies, Justice & Community Engagement,	MA 110 (Spring First Year)  MA 110 does not prepare you for further study in math. If you plan to complete additional coursework in math you should take MA 107 instead of MA 110.  Sociology, Health, Medicine, & Society, Justice & Community Engagement., and Gerontology should take MA 110. Should you take MA 206 after MA 110, MA 206 will replace your major requirement of SO 382/GT 382  If there is a possibility that you will change your major to business, you should take MA 170 or MA 176 instead of MA 110. If you might change to a major in a science, see the requirements below.	MA 110 Or Higher
	<b>SCHOOL OF BUSINESS</b>	
3+1 Business Students Accounting, Applied Business, Business Analytics, CIS CIS/Accounting Finance, Financial Tech, Sport & Entertainment Management, Supply Chain Management, Marketing Biomedical Marketing Entrepreneurship International Business Business Undeclared	MA 170 (or MA 176 with permission of your adviser) (Fall First Year)          MA 170 (or MA 176 with permission of your adviser) (Spring First Year)	
	<b>SCHOOL OF COMPUTING AND ENGINEERING</b>	
Engineering  Computer Science	MA 107 (Fall First Year) MA 140 (Spring First Year). Consult with the Chair of Engineering or your adviser.  BA - MA 107 (Fall First Year), MA 140 (Spring First Year), MA 141 (Fall Second Year) or MA 229 (Spring Second Year) BS - MA 107 (Fall First Year), MA 140 (Spring First Year), MA 141 (Fall Second Year)	MA 141 or higher
	<b>SCHOOL OF COMMUNICATIONS</b>	
All Majors	MA 110 or MA 170 or MA 176 (Spring First Year)  MA 110 does not prepare you for further study in math. If you plan to complete additional coursework in math you should take MA 107 instead of MA 110. If there is a possibility that you will change your major to business or minor in business, you should take MA 170 or MA 176 instead of MA 110.	MA 110 Or Higher
	<b>SCHOOL OF HEALTH SCIENCES</b>	
Physical Therapy, AT/PT, Physician Assistant	MA 107 (Fall First Year), MA 140 (Spring First Year), MA 141 (Fall Second Year)	MA 141
Biomedical Sciences, Microbiology/Immunology	MA 107 (Fall First Year), MA 140 (Spring First Year)	MA 140 Or Higher
Occupational Therapy Diagnostic Medical Sonography Athletic Training Health Science Studies Health Science Undeclared Radiologic Science	MA 107 (Fall First Year) MA 275 (Spring First Year) MA 170 (Fall First Year) MA 275 (Spring First Year)  MA 170 (Fall First Year) and MA 275 (Fall of 2 <sup>nd</sup> Year) MA 107 (Fall First Year) and MA 275 (Spring First Year)	MA 275
	<b>SCHOOL OF NURSING</b>	
Nursing	MA 107 (Fall First Year) MA 275 or MA 206 (Spring First Year)	MA 275 or MA 206

## Math Placement Level: 1

Your math placement level is based on the grades you earned in your high school math courses, your math score on the SAT, and your performance on the math placement test.

Based on your math placement level, you must take a corequisite course, MA 106, MA 109, or MA 169 to give the student more support in mathematics. The extra class time allows for more contact with the professor and more feedback and discussion with peers. Refer to the chart below for the math requirement and course sequencing information specific to your major

Major	Course Sequencing	Core Requirement
<b>COLLEGE OF ARTS AND SCIENCES</b>		
Math, Data Science	MA 106 and MA 107-01 (Fall First Year). Consult with the Chair of your department or your adviser	MA 141
Chemistry, Biochemistry Biology	MA 106 and MA 107-01 (Fall First Year). Consult with the Chair of Chemistry and Physical Sciences or your adviser MA 106 and MA 107-01 (Fall First Year). Consult with the Chair of Biology or your adviser	MA 141
Interdisciplinary Studies (IDS)	MA 110 and MA 109 (Spring First Year), MA 170 and MA 169 (Fall Second Year) MA 206 (Spring Second Year) The major requires three math courses. MA 110, MA 170, and another at a 200 level or higher.	MA 110 Or Higher
Environmental Studies, Environmental Science, Sustainability and Environmental Policy	MA 106 and MA 107-01 (Fall First Year) and MA 275 (Spring First Year)	MA 275
Psychology	MA 170 and MA 169 (Spring First Year) followed by PS 206	MA 110
Behavioral Neuroscience	A 107 and MA 106 (Fall First Year), Consult with director of Behavioral Neuroscience or your adviser.	
Economics	MA 169 and MA 170(Spring First Year)	
All other CAS majors: Criminal Justice English, Gerontology, Health, Medicine, & Society, History, Justice & Community Engagement, Game Design and Development Law in Society Political Science Philosophy Sociology, Hispanic & Latin American Studies	MA 109 and MA 110 (Spring First Year)  MA 110 does not prepare you for further study in math. If you plan to complete additional coursework in math you should take MA 107 and MA 106 instead of MA 110 and MA 109.  Sociology, Health, Medicine, & Society, Justice & Community Engagement, and Gerontology should take MA 110. Should you take MA 206 after MA 110, MA 206 will replace your major requirement of SO 382/GT 382  If there is a possibility that you will change your major to business or minor in business, you should take MA 169, MA 170 instead of MA 110. If you might change to a major in a science, see the requirements below.	MA 110 or Higher
<b>SCHOOL OF BUSINESS</b>		
All Majors	MA 169 and MA 170 (Spring First Year)	MA 170 or MA 176
<b>SCHOOL OF COMPUTING AND ENGINEERING</b>		
Engineering Computer Science	MA 106 and MA 107-01 (Fall First Year). Consult with the Chair of Engineering of your adviser. MA 106 and MA 107-01 (Fall First Year). Consult with the Chair of Computer Sciences or your adviser.	MA 141 or higher
<b>SCHOOL OF COMMUNICATIONS</b>		
All Majors	MA 109 and MA 110 (Spring First Year)  MA 110 does not prepare you for further study in math. If you plan to complete additional coursework in math you should take MA 106 and MA 107 instead of MA 110.  If there is a possibility that you will change your major to business, you should take MA 169 and MA 170 instead of MA 110.	MA 110 Or Higher
<b>SCHOOL OF HEALTH SCIENCES</b>		
Physical Therapy, AT/PT, Physician Assistant	MA 106 and MA 107-01 (Fall First Year). Consult with chair of your department or adviser.	MA 141
Biomedical Sciences, Microbiology/Immunology	MA 106 and MA 107-01 (Fall First Year), MA 140 (Spring First Year)	MA 140 Or Higher
Occupational Therapy Radiologic Sciences, Diagnostic Medical Sonography Athletic Training Health Science Studies, Health Science Undeclared	MA 106 and MA 107-01 (Fall First Year), MA 275 (Spring 1st Year) MA 169 and MA 170 (Spring First Year) MA 275 (Fall 2nd Year)  MA 169 and MA 170 (Spring First Year) MA 275 (Fall 2nd Year) MA 106 and MA 107-01 (Fall First Year), MA 275 (Spring First Year)	MA 275
<b>SCHOOL OF NURSING</b>		
Nursing	MA 106 and MA 107-01 (Fall First Year), MA 275 or MA 206 (Spring First Year)	MA 275 or 206