**COLLEGE CURRICULA MATHEMATICS REQUIREMENTS (Effective Jan. 1, 2010)**

**A. Mathematics Sequence by Curriculum.**

After identifying your curriculum (major) below from the list on the left, see the COMPASS Cut-Off Scores for Mathematics Placement Chart to determine the first mathematics course you need to take in the mathematics sequence for your choice of curriculum.

**NOTE:** The old sequence MTH 03 → MTH 04 (not offered after Sp 2010) can replace MTH 05 anywhere below.

<table>
<thead>
<tr>
<th>Code - Curricula</th>
<th>Required Mathematics Courses Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>002 Accounting Curriculum A.A.S. Degree</td>
<td>12** or 01 → 05 → 06 → 30 (→ 31)*#</td>
</tr>
<tr>
<td>008 Business Administration A.S. Degree</td>
<td>01 → 05 → 06 → 30 (→ 31#)</td>
</tr>
<tr>
<td>009 Automotive Mechanics Certificate Program</td>
<td>None</td>
</tr>
<tr>
<td>015 Mathematics A.S. Degree</td>
<td>01 → 05 → 06 → 30 → 31 → 32 → 33 and MTH 42, two courses from {CSI 35, MTH 34, 35, 44, 46}</td>
</tr>
<tr>
<td>016 Pharmaceutical Manufacturing Technology A.A.S. Degree</td>
<td>01 → 05 → 06 → 13 → 14 or (01 → 05 → 06 → 30 → 31)*</td>
</tr>
<tr>
<td>018 Energy Services Technology A.A.S. Degree</td>
<td>01 → 05 → 13 and 23 or (01 → 05 → 06 → 30 → 31)</td>
</tr>
<tr>
<td>020 Computer Information Systems Curriculum A.A.S. Degree</td>
<td>12** or (01 → 05 → 06 → 30 (→ 31))*</td>
</tr>
<tr>
<td>023 Electronic Engineering Technology A.A.S. Degree</td>
<td>01 → 05 → 06 → 13 → 14 → 15</td>
</tr>
</tbody>
</table>

* Students who may later transfer to a four-year college should consider taking these courses.  
**Recommended course but not a required course by curriculum.**  
† Student who may transfer to a four-year college other than CUNY colleges should consider taking these courses.  
**For students entering with COMPASS proficiency (35 or more on M1 and 40 or more on M2). Students entering without COMPASS proficiency must take MTH 01 and/or MTH 05 before taking MTH 12 (see COMPASS cut-off scores for Mathematics Placement).**
024 Engineering Science A.S. Degree
01 → 05 → 06 → 30 → 31 → 32 → 33 → 34 (MTH 42)*

025 Computer Science A.S. Degree
01 → 05 → 06 → 30 → 31 → 32 → 33 (MTH 34, 42)*

026 Environmental Technology A.A.S. Degree
01 → 05 → 06 → 13 and 23

028 Automotive Technology A.A.S. Degree
01 → 05 → 06 → 13

031 Community/School Health Education A.S. Degree
01 → 05 → 21 or 23 or 26

032 Dietetics & Nutrition Option A.S. Degree
01 → 05 → 23

033 Nuclear Medicine Technology A.A.S. Degree
01 → 05 → 06 → 30

034 Ornamental Horticulture A.A.S. Degree
General Horticulture Option 234
Interior Landscaping Option 334
None (→ 05 → 06)*

036 Office Administration and Technology A.A.S. Degree
12** or (01 → 05 → 06 → 30)*

037 Liberal Arts and Sciences A.A. Degree
01 → 05 → 21 or 22 or 23 or 26 / OR
(01 → 05 → 06 → 30)*

African, Latino and Native American Studies Option 537
Criminal Justice Option c37
Education Option 737
History Option 237
Human Services Option b37
International Studies Option a37
Media Studies Option 837
Performing Arts Option f37
Political Science Option 337
Psychology Option 437
Security Management d37
Spanish Option e37
Speech Pathology Option 937

Code – Curricula

039 Liberal Arts and Sciences A.S. Degree
Biology Option 139
Chemistry Option 239
Earth Systems & Environmental Science 639
Physics Option 339

040 Therapeutic Recreation A.S. Degree
01 → 05 → 21 or 22 or 23 or 26

041 Telecommunications Technology A.A.S. Degree
01 → 05 → 06 → 13 → 14 → 15

043 Medical Office Assistant Curriculum A.A.S. Degree
12** or (01 → 05 → 06 → 30)*

044 Medical Laboratory Technology A.A.S. Degree
01 → 05 → 06 → 13 → 23

046 Nursing A.A.S. Degree
See Nursing Department

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047 Pre-Clinical Nursing Program See Nursing Department

048 Radiologic Technology A.A.S. Degree 01 → 05 → 06 → 13 / OR (01 → 05 → 06 → 30 → 31)*

056 Media Technology A.A.S. Degree 12** or (01 → 05 → 21)*

057 Paralegal Studies A.A.S. Degree 12** or (01 → 05 → 21 or 23)

073 Marketing Management Curriculum A.A.S. Degree 12** or (01 → 05 → 06 → 30 (→ 31)*

080 Criminal Justice A.A. Degree 01 → 05 → 21 or 22 or 23 or 26 / OR (01 → 05 → 06 → 30)†

090 Science for Forensics A.S. Degree 01 → 05 → 06 → 30 → 31 → 32

141 Telecommunications Technology (Verizon) A.A.S. Degree 10 → 11

* Students who may later transfer to a four-year college should consider taking these courses.
# Recommended course but not a required course by curriculum.
† Student who may transfer to a four-year college other than CUNY colleges should consider taking these courses.
**For students entering with COMPASS proficiency (35 or more on M1 and 40 or more on M2). Students entering without COMPASS proficiency must take MTH 01 and/or MTH 05 before taking MTH 12 (see COMPASS cut-off scores for Mathematics Placement).

COMPASS Cut-off Scores for Mathematics Placement
(effective March 2011)
(to place out of a course)

<table>
<thead>
<tr>
<th>Place out of:</th>
<th>Arithmetic (MI) (pre-algebra)</th>
<th>Algebra (M2)</th>
<th>College Algebra (M3)</th>
<th>Geometry (S4)</th>
<th>Trigonometry (S5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 01*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 05</td>
<td>≥35</td>
<td>≥40</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>MTH 06</td>
<td>≥35</td>
<td>≥45</td>
<td>N/A</td>
<td>N/A</td>
<td>≥30</td>
</tr>
<tr>
<td>MTH 30 or MTH 13**</td>
<td>≥35</td>
<td>≥45</td>
<td>≥45</td>
<td>N/A</td>
<td>≥40</td>
</tr>
</tbody>
</table>

*For nursing curriculum codes 003 and 046 and 047:
If M1 ≥ 35 and M2 ≥ 40, or if the student is CUNY Math Exempt (Q/R/S/T/B), student is eligible to apply for PHM 10 at Nursing Department. Otherwise, students should take the appropriate remedial course.
CMAT Cut-off Scores for Mathematics Placement

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 01</td>
<td>≥ 12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 05</td>
<td></td>
<td></td>
<td>≥ 25</td>
<td>≥ 13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 06</td>
<td></td>
<td></td>
<td>≥ 25</td>
<td>≥ 13</td>
<td>≥ 4</td>
<td></td>
</tr>
<tr>
<td>MTH 13 or MTH 30</td>
<td></td>
<td></td>
<td>≥ 25</td>
<td>≥ 13</td>
<td>≥ 4</td>
<td>≥ 8</td>
</tr>
</tbody>
</table>

High School Equivalency (Regents score of 75 or better)

<table>
<thead>
<tr>
<th></th>
<th>MTH 05</th>
<th>Seq Math II (SMQII): MQ3 and MQ4 [10th grade math] or Math A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTH 06</td>
<td>Seq Math III (SMQ III): MQ5 and MQ6, or Math B</td>
</tr>
</tbody>
</table>

**NOTE:** If students have taken advanced algebra in high school and wish to take MTH 31, then they may be exempt from MTH 30 by taking an exemption examination administered by the Department of Mathematics and Computer Science.

The new New York State Regents exams (2010 and after) focus on Integrated Algebra, Geometry, and Algebra 2 and Trigonometry. For students entering in Fall 2011 or Spring 2012, CUNY Math Proficiency is measured by passing one of the three Regents exams with a score of 75, and completion of the three-year Regents course sequence Integrated Algebra/Geometry/Algebra 2 and Trigonometry. For students entering in Fall 2012 or after, CUNY Math Proficiency can be demonstrated by achieving a score of 80 or higher on any of the three Regents math courses, and successfully completing Algebra 2 and Trigonometry or higher.

A student may place out of MTH 06 by passing all three Regents exams with a score of 75 or above.

**Note that in order to transfer to a CUNY senior college, students must have achieved CUNY Math Proficiency either by achieving a 35/40 on their entering COMPASS placement test, or having demonstrated proficiency by means of Regents or other exemptions, or by having passed a credit-bearing math course (three or more credits) with a grade of C or higher.**

Mathematics Course Sequences:

**Liberal Arts (non-science)**
Entering with COMPASS proficiency (M1 ≥ 35 and M2 ≥ 40): MTH 21 or MTH 23
Entering without COMPASS proficiency: MTH 01 → MTH 05 → MTH 21 or MTH 23

**Mathematics, Science, Technology and Business (transfer programs)**
Entering with COMPASS proficiency (M1 ≥ 35 and M2 ≥ 40): MTH 06 → MTH 30 (or MTH 13)
Entering without COMPASS proficiency: MTH 01 → MTH 05 → MTH 06 → MTH 30 (or MTH 13)

**Curricula Requiring MTH 12 (non-science, non-transfer)**
Entering with COMPASS proficiency (M1 ≥ 35 and M2 ≥ 40): MTH 12
Entering without COMPASS proficiency: MTH 01→MTH 05→MTH 12
(Note: MTH 12 is not recommended for transfer to a four year college.)