Math Course Advising

This document is intended to accompany the Math Advising Tool and assist students in selecting an appropriate math course. It is important to note that many math courses satisfy the Analytical Inquiry: The Natural and Physical World requirement for the university. Individual majors require students to take specific math courses which also fulfill this requirement. Students should refer to the bulletin for specific details on what math courses are required for which majors, but generally speaking

- MATH 1951 Calculus I (4 credits) is required for science, math, computer science, and engineering majors,
- MATH 1200 Calculus for Business and Social Sciences (4 credits) is required for students majoring in Business. MATH 1951 may be taken in place of MATH 1200 for majors where MATH 1200 is required.

One of the main factors which determines whether a student will be successful in the above courses is the students’ level of preparation for the class. In particular, MATH 1951 requires both algebra and trigonometry skills, while MATH 1200 requires algebra skills only. Students who intend to take either MATH 1951 or MATH 1200 but determine that they are underprepared have the option of taking one of the following courses.

- MATH 1070 College Algebra and Trigonometry (4 credits) is designed to prepare students for MATH 1951.
- MATH 1010 Elements of College Algebra (2 credits) is designed to prepare students for MATH 1200.

The Math Advising Tool contains a proficiency exam for calculus in order to help students determine their level of preparation. Students who completed that exam should have received their scores (out of 20) by email upon completion. The mathematics department makes the following recommendations based on those scores.

Please note: These are recommendations, not requirements. Students should take other factors into account when determining their level of preparation, such as math scores on standardized exams (ACT/SAT) and previous math courses taken.

17-20 points
These scores indicate a strong level of preparation for MATH 1951. Even if you only need MATH 1200, we recommend that you enroll in MATH 1951 for a more in-depth treatment of calculus.

13-16 points
These scores indicate a satisfactory level of preparation for MATH 1951 or MATH 1200. We recommend enrolling in whichever of these courses your major requires.

9-12 points
These scores indicate algebra skills that need some refreshing. While MATH 1200 provides limited opportunities for students to independently build up their algebra skills,
please consider enrolling in MATH 1010 before attempting MATH 1200. If you are aiming at MATH 1951, we recommend that you enroll in MATH 1070 first.

0-8 points
These scores indicate algebra skills that may be a serious obstacle in MATH 1200 or MATH 1951. We strongly recommend that you enroll in MATH 1010 before taking MATH 1200, or in MATH 1070 before taking MATH 1951.

Credit earned through examination (AP/IB)

For students who took an Advanced Placement (AP) Calculus Exam or International Baccalaureate (IB) HL Mathematics Exam, the University of Denver grants mathematics credits according to the following tables.

ADVANCED PLACEMENT (AP)

<table>
<thead>
<tr>
<th>EXAM</th>
<th>SCORE = 5</th>
<th>SCORE = 4</th>
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</thead>
<tbody>
<tr>
<td>Calculus BC</td>
<td>12 credits: MATH 1951, 1952 &amp; 1953</td>
<td>8 credits: MATH 1951, 1952</td>
</tr>
<tr>
<td>Calculus AB*</td>
<td>4 credits: MATH 1951</td>
<td>4 credits: MATH 1951</td>
</tr>
</tbody>
</table>

* - or AB sub-score on BC exam.

INTERNATIONAL BACCALAUREATE (IB)

<table>
<thead>
<tr>
<th>EXAM</th>
<th>SCORE = 7 or 6</th>
<th>SCORE = 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics HL</td>
<td>12 credits: MATH 1951, 1952 &amp; 1953</td>
<td>8 credits: MATH 1951, 1952</td>
</tr>
</tbody>
</table>

No credit is given for Standard-Level Subject Exams.

Questions? Contact math-office@du.edu