

WHAT MATH and STAT COURSES CAN I TAKE AT LANGARA?????

A guide for current BC high school students

Updated Spring 2012

Many students come to Langara College without having completed a lot of math courses in high school. Although Langara does not offer the exact Essentials, Apprenticeship & Workplace, Applications, Foundations, Principles and Pre-calculus high school math courses, we do teach courses starting at basic arithmetic and proceeding through to university transfer courses.

“My Program Has A Math or Stat Admission Requirement”

If your Langara College program has a high school math admission requirement, and if your high school math does not meet that requirement, then you can write the Langara Math/Stat Diagnostic Test (“MDT”) either to challenge the admission requirement or to determine the sequence of courses to take at Langara in order to meet that requirement. (Examples – Nursing, Applied Planning, some Business programs, Photo Imaging are examples of programs with math or stat entrance requirements)

“My Program Has Math or Stat Courses Or Courses That Require Math”

Your program at Langara will determine which courses you will take. Some programs require one or more math or stat courses; some programs require no math courses but include courses (for example, some Chemistry, Physics, Economics and Computer Science courses) which have math prerequisites.

You must check the Langara calendar to see which courses are required for your program, and then check the course-listing section of the calendar to see the prerequisites for each of those courses.

“My Program Requires Calculus”

If you need first-year calculus, there are a couple of possible sequences of MATH courses at Langara. Those sequences are

MATH 1100 ... 1101 ... 1150 ... 1152 ... 1170 ... then calculus I (1171, 1173, 1174 or 1153&1253) and then calculus II (if needed)

Or

MATH 1100 ... 1101 ... 1150 ... 1152 ... 1153 & 1253 then (if needed) calculus II

These sequences show the courses that a student with no math background would take. Most students do not have to take all of these courses in order to finish first year calculus. In fact, if you have successfully completed *Principles of Math 12* or *Pre-calculus 12*, then you can skip the first three courses, and if you were really good at *PM12* or *PreCalc12*, then you can skip the first five courses. And if you believe that your high school grades do not accurately represent your math knowledge, then you can write the Math/Stats Diagnostic Test (“MDT”). Our MDT Process will determine where you will start in this sequence of courses. **Consult the chart on the next page.**

“I Need Math In Order To Apply Elsewhere”

Use the BC Transfer Guide (and talk to the College counsellors and the Math/Stat Advisor) to help determine what courses you will need in order to transfer. Please note that if you are planning to go to BCIT, then you must ask BCIT which Langara math course they will accept. (Usually they will accept Math 1150 or Math 1152, but the final decision is up to them.)

“What If I Do Badly On The MDT?”

You can write the MDT only once per year, so be sure to prepare for the test. A low MDT score tells us (and tells you!) that you need some remedial courses before starting the course you had hoped for. A low MDT score will not nullify your high school grades.

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The chart below describes the usual path for recent BC high school graduates. Please note that high school grades are accepted only for three years; after three years, you must write our Math Diagnostic Test (MDT).

Most Advanced High School Math Course Passed	Langara College Strategy
Any Math 10 with C- or higher Any Math 11 (except Principles or Pre-calculus) with C- or higher Math 11 (Principles or Pre-calculus) with C- Math 12 (Applications or Foundations) with C- Math 12 Essentials or A&W with C- or higher	You must write the MDT to determine whether you will take Langara MATH 1100, 1101 or 1150. You will write Test #1, which assesses arithmetic, BEDMAS, fractions, basic algebra, and word problems; you may not use a calculator when you write this test. If you want to take STAT 1124 then you must write the diagnostic test.
Math 11 (Principles or Pre-calculus) with C or higher Math 12 (Applications or Foundations) with C or higher	You qualify to take Langara MATH 1150 and/or STAT 1124. If you feel pretty good about math, then you can write the MDT to see if you are eligible to start in Langara MATH 1152. Write Test #2, part A only, to assess your knowledge of algebra and functions.
Math 12 (Principles or Pre-calculus) with A	You can take any first-year math course
Math 12 (Principles or Pre-calculus) with B	You can take any first-year math course except MATH 1171. Optional: you can write the MDT (test #2) to see if you can take MATH 1171
Math 12 (Principles or Pre-calculus) with C+	You can take MATH 1170 or MATH 1152. Optional: If you want to take Calculus then you can write the MDT (test #2) to see if you qualify for Calculus (ie MATH 1171, 1173, 1174 or 1153)
Math 12 (Principles or Pre-calculus) with C or C-	You can take MATH 1152. Optional: If you want to take Math 1170 or Calculus, then you will need to write the MDT (test #2) to see if you qualify.
Math 12 (Principles or Pre-calculus) with C+ or higher, and Calculus 12 with C- or higher	You can take any first-year calculus course (1171, 1174, 1173, 1153), or precalculus (1170, 1152)

Additional information (dates, content, review material) about the MDT is available on the Math & Stats Department website <http://www.langara.bc.ca/admissions/diagnostic-tests/math-stats/index.html>

If you have more questions about MATH or STATS at Langara, please contact our Math/Stat student advisor at 604-323-5583 or math.stat.info@langara.bc.ca

If you write a provincial exam, we will take the better of (your school grade) and (your blended grade) when assessing prerequisites.