

Mathematics

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BEFORE REGISTERING FOR A MATHEMATICS COURSE YOU'LL NEED TO BE ASSESSED

If you would like to study math at the college level, we need to determine which of our courses is right for you. We do this by having you demonstrate your current math skills in an assessment. We then use this information to match your skills with the course from which you will benefit the most.

To register for an assessment of your skills, please call 416-289-5300 or to book online please go to centennialcollege.ca/assessment. If you have any questions, please e-mail assessmentcentre@centennialcollege.ca

We will assign a student number to you (if you don't already have one), and book your assessment appointment.

Two weeks after you write your assessment, call our Call Centre at 416-289-5300 and have your student number on hand to identify yourself to the Call Centre Representative. They will advise you which math course you are eligible to register in.

If you have a documented disability, such as a learning disability, which requires testing accommodation, please call 416-289-5000, ext. 2627 or e-mail csd@centennialcollege.ca

Mathematics

If a course requires a minimum test score as an entrance prerequisite, you will need to arrange for an assessment. For details, call 416-289-5300.

MATHEMATICS OF FINANCE MATH-106

Topics include fractions and decimals, basic algebraic operations, linear equations and formula rearrangement, graphs, simultaneous equations, ratio, proportion and percent, discounts and retail pricing, simple and compound interest, equations of value, and ordinary annuities.

Prerequisite: A score of 24 to 39 on the business mathematics assessment or permission of the dept. Please call the Assessment Centre at 416-289-5300 to book your assessment.

MATHEMATICS FOR ARCHITECTURE 1 MATH-111

This is a mathematics course covering selected topics in basic algebra, geometry and trigonometry. This course is intended for those students in the Architectural Technology program.

Prerequisite: GS-191, a score of at least 25 on the engineering math pretest or permission of the dept.

MATHEMATICS FOR ARCHITECTURE 2 MATH-112

This is a course covering intermediate topics in geometry and trigonometry. It is intended for students in the Architectural Technology program.

Prerequisite: Mathematics for Architecture 1 MATH-111 or permission of the dept.

MATHEMATICS OF FINANCE 1 MATH-118

This is the first of a two-part course. Topics include fractions, decimals, signed numbers, laws of exponents, and basic algebra.

Prerequisite: A score of 16 to 23 on the business mathematics assessment. Please call the Assessment Centre at 416-289-5300 to book your assessment.

MATHEMATICS OF FINANCE 2 MATH-119

This is the second of a two-part course. Topics include trade and cash discount, retail pricing, simple interest, equations of value and promissory notes. The course also covers compound interest topics, including present value and interest for fractional periods. Further topics include nominal, effective and equivalent rates of interest. This course concludes with ordinary annuities.

Prerequisite: Mathematics of Finance 1 MATH-118, a score of 40 to 45 on the business mathematics assessment or permission of the department. Please call the Assessment Centre at 416-289-5300 to book your assessment.

**REGISTER
EARLY
seating is
limited!**

TECHNOLOGY MATHEMATICS 1

MATH-140

Study basic algebra, graphing and elementary trigonometry. Topics include order of operations, fractions and decimals, exponents, approximate numbers, percentages, formulas, systems of linear equations, graphs of algebraic functions and elementary trigonometry.

Prerequisite: A score of 16 to 29 on the engineering mathematics assessment. Please call the Assessment Centre at 416-289-5300 to book your assessment.

MATHEMATICS FOR COMPUTER SYSTEMS 1

MATH-149

This is a first-year course in mathematics for computer systems. Through classroom instruction, students will study the fundamental mathematics required to solve related problems encountered in computer systems.

MATHEMATICS FOR METAL MACHINIST PT. 1

MATH-160

This is a first-year mathematics course taught in the CAD/CAM and Metal Machining programs. Through classroom instruction students will study the fundamental mathematics required to solve related problems encountered in the metal machining industry.

MATHEMATICS FOR METAL MACHINIST PT. 2

MATH-161

This is a first-year mathematics course taught in the CAD/CAM and Metal Machining programs. Students will study the fundamental mathematics required to solve related problems encountered in the metal machining industry.

MATHEMATICS FOR COMPUTER SYSTEMS 2

MATH-169

This is a first-year course in mathematics for computer systems. Through classroom instruction, students will study the fundamental mathematics required to solve related problems encountered in computer systems. As well, students will be introduced to set theory. Students will also be familiarized with various concepts relating to modular systems.

TECHNOLOGY MATHEMATICS 2

MATH-170

Explore more advanced topics in algebra and trigonometry, including angle measure, inverse trigonometric functions, arc length and area, law of sines and cosines, as well as graphs of trigonometric functions. Algebraic topics include factoring, algebraic fractions and operations, complex numbers, and vectors.

Prerequisite: Technology Mathematics 1 MATH-140 or a score of at least 30 on the engineering mathematics assessment. Please call the Assessment Centre at 416-289-5300 to book your assessment.

FUNCTIONS & NUMBER SYSTEMS

MATH-175

Students will be exposed to concepts related to number systems and functions. As well, students will learn about the fundamentals of algebra, matrices, solving systems of linear equations, and sequences and series. Student will be familiarized with binary, octal, and hexadecimal bases.

Prerequisite: A score of at least 16 on the engineering mathematics assessment. Please call the Assessment Centre at 416-289-5300 to book your assessment.

MATHEMATICS 2

MATH-176

This is a course covering "intermediate" topics in algebra. Also studied will be exponents and radicals, the solution of logarithmic and exponential equations, growth and decay, and log-log and semi-log graphing. It is intended for those students in the Biological and Environmental Technician and Technology programs. Students registered in these programs must have, at or prior to program entry, demonstrated achievement of the prerequisite mathematical skills based on an assessment of their Engineering Mathematics pre-test results. The course is also available to students who have successfully completed Technology Mathematics 1 (MATH-140).

Prerequisite: Technology Mathematics 1 MATH-140 or a score of at least 30 on the engineering mathematics assessment. Please call the Assessment Centre at 416-289-5300 to book your assessment.

TECHNOLOGY MATHEMATICS 3**MATH-180**

This course is the last in a series of first-year technology mathematics courses that provide students with a sound pre-calculus mathematical background. While operations with exponents and radicals are thoroughly covered, a major portion of the course is devoted to algebraic methods of solution of various types of equations including quadratic, trigonometric, exponential, logarithmic and those which contain radicals. The applications of mathematical concepts and methods of solving a variety of typical scientific and technical problems are also emphasized.

Prerequisite: Technology Mathematics 2 MATH-170 or permission of the dept.

DISCRETE MATHEMATICS**MATH-185**

This is a first-year mathematics course in discrete mathematics. Through classroom instruction, students will study the fundamental mathematics required to solve related problems encountered in discrete mathematics. As well, students will be introduced to combinatorics and discrete probability. Students will also be familiarized with various concepts in set theory, logic and Boolean algebra.

Prerequisite: Mathematics for Computer Systems 1 MATH-175 or permission of the dept.

STATISTICS FOR APPLIED SCIENCE**MATH-186**

This is a mathematics course for the Biotechnology/Environmental Protection Technician and Technology programs. Statistics topics covered include the basics of elementary descriptive statistics, fundamental probability, the normal and standard-normal-probability distributions, confidence intervals and hypothesis testing. Further topics of study are exponents and radicals, the solution of exponential and logarithmic equations, growth and decay, and log-glow and semi-log graphing.

Prerequisite: Mathematics 2 MATH-176 or permission of the dept.

DIFFERENTIAL CALCULUS WITH ANALYTIC GEOMETRY**MATH-231**

Topics include straight line equations, conic sections, the limit concept, average and instantaneous rates of change, the derivative as a limit, higher order derivatives, differentials and approximate values, curve sketching and maximum-minimum problems, logarithmic and exponential functions, trigonometric, hyperbolic and inverse functions.

Prerequisite: Technology Mathematics 3 MATH-180 (minimum C grade)

INTEGRAL CALCULUS**MATH-232**

Topics include indefinite and definite integrals of algebraic functions, applications of integration to motions analysis, area evaluation, volumes of revolution, exponential and logarithmic functions, and integration techniques.

Prerequisites: Differential Calculus with Analytic Geometry MATH-231, Technology Mathematics 3 MATH-180 (minimum C grade)

myCentennial

For your timetable, grades, unofficial transcripts, tax receipts and other services, check online at **myCentennial**: <http://my.centennialcollege.ca>.

Experiencing technical problems? Contact helpdesk@centennialcollege.ca or call 416-289-5280.

Centre for Students with Disabilities

If you are a Centennial student with a disability, please contact our Centre for Students with Disabilities at 416-289-5000, ext. 2627, e-mail csd@centennialcollege.ca or visit centennialcollege.ca/csd. These services are free and confidential to all Centennial students!

FIRST GENERATION STUDENT PROJECT

As the first person in your family to attend a Canadian college, university or apprenticeship program you may have a lot of questions. If you're interested in finding out more, we can help.

Stepping into the Future



This Project was made possible by a grant from the Ministry of Training, Colleges and Universities.

We'll help you find information about:

- Centennial College and your program to share with your parents or guardians/family/friends through First Generation Student Orientation Sessions
- Learning experiences through the Community Program Initiative
- How to successfully work through College procedures
 - advising about Centennial services and connections to the right people
 - assessment to assist with placement, and program or course selection
 - bursaries and loans to assist with costs
 - assistance with Centennial procedures and on-line documentation
 - counselling: career, personal, academic, and disability
 - ongoing personal and academic follow-up
- Free tutoring
- Mentoring
- Specialized workshops – at little or no cost
 - preparing for college
 - learning strategies – improve reading and writing skills
 - research skills – how to use different techniques and how to recognize reliable sources
 - study skills – how, what and when to study
 - self-advocacy – learn to identify your learning needs and how to speak with others to get them met
 - organization and time management skills – setting priorities and getting done what you need to do, when you need to do it
 - and lots more – for you to be successful!
- Social networking through our student association, recreation and leisure activities, and groups

You can find out more about the services by visiting us online at centennialcollege.ca/fgs, e-mail firstgeneration@centennialcollege.ca or call 416-289-5000, ext. 3369.