



General education courses offered at Centennial are designed to provide benefits to one or more of three aims: learner’s personal growth and enrichment, informed citizenship and working life, as well as meeting the diverse learning needs of our part-time students.

Mathematics is important in many disciplines and helps learners develop critical skills in problem solving. Students will take mathematics as part of a well-rounded engineering, applied science or architectural program. Others may wish to study one of the many branches of mathematics to prepare for a future program of interest in the sciences or social sciences.

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General Education

ETHICS IN BUSINESS

GNED-147

Learn about ethical considerations in contemporary business. Examine moral frameworks and develop a model for ethical decision-making. Apply these frameworks and the decision-making model to ethical dilemmas and decisions. Enhance your awareness of ethical issues and moral reasoning skills.

HOURS: 45 **FEE:** IC: \$293.90 **OL:** \$339.10

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 13 – Dec 20	M	7-10 pm	PRO
Winter	821	Jan 10 – Apr 18	M	7-10 pm	PRO
Spring	841	May 9 – June 29	M/W	7-10 pm	PRO

EXPLORING CUSTOMER SERVICE

GNED-160

All employees provide service to either external or internal customers. This course examines the customer service skills required to succeed in today's business environment. Providing service that consistently exceeds the customers' expectations is both challenging and rewarding. This course helps you to learn skills that support your career, your personal growth and your working life.

HOURS: 45 **FEE:** IC: \$293.90 **OL:** \$339.10

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 16 – Dec 16	Th	7-10 pm	PRO
Winter	821	Jan 13 – Apr 21	Th	7-10 pm	PRO
Spring	841	May 12 – Aug 18	Th	7-10 pm	PRO

GEOGRAPHY AND TOURISM

GNED-159

This course examines the world landscapes as well as associated cultural and historical phenomena. Contemporary theories in the earth sciences such as geological time, plate tectonics, processes of erosion and factors affecting climate are explored. The course is targeted for students who wish to know more about how the physical, cultural and historical elements of the world landscape combine to make each designated region interesting and unique.

HOURS: 45 **FEE:** IC: \$293.90 **OL:** \$339.10

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 15 – Dec 15	W	7-10 pm	PRO
Spring	841	May 9 – June 29	M/W	7-10 pm	PRO

GLOBAL CITIZENSHIP

GNED-500

This course presents a foundational and unique look at the history, roots, and impact of inequality and discrimination related to issues of social justice, energy, the environment, and technology both in Canada and globally. Students will explore personal and social responsibility to be good citizens, in their communities, personal lives, and work environments, hence preparing themselves to work in multicultural, diverse and global work environments. Emphasis will be on the impact and responsibility shared by individuals and societal systems to ensure equality and justice, and inclusion. Students will develop a portfolio that highlights program-related learning, and that reflects their "signature" experience of diversity in college life.

HOURS: 45 **FEE:** IC: \$293.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 13 – Dec 20	M	7-10 pm	PRO
	802	Sept 15 – Dec 15	W	7-10 pm	PRO
	803	Sept 16 – Dec 16	Th	7-10 pm	PRO
Winter	821	Jan 10 – Apr 18	M	7-10 pm	PRO
	822	Jan 12 – Apr 20	W	7-10 pm	PRO
	823	Jan 13 – Apr 23	Th	7-10 pm	PRO
Spring	841	May 9 – June 27	M/W	7-10 pm	PRO
	842	May 10 – Aug 16	Tu	7-10 pm	PRO
	843	May 14 – Aug 20	Sa	9:30 am-12:30 pm	PRO

GROWING UP DIGITAL – LIVING AND WORKING IN CANADA

GNED-190

Youth in Canada today are the first generation to grow up in a digital world and they are transforming our culture and institutions. This course looks at the internet and its role in shaping recent history and society. It examines the impact of digital media that empowers our youth to communicate, learn, play, shop and work differently from previous generations. It also provides analytical tools to anticipate and act on what lies ahead in the future.

HOURS: 45 **FEE:** IC: \$293.90 **OL:** \$339.10

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 14 – Dec 14	Tu	7-10 pm	PRO
Winter	821	Jan 11 – Apr 19	Tu	7-10 pm	PRO
Spring	841	May 10 – Aug 16	Tu	7-10 pm	PRO

HOLISTIC APPROACHES TO HEALTH AROMATHERAPY

GNED-163

Examine the historical and contemporary uses of aromatherapy, focusing specifically on treatments to relieve a wide variety of physical symptoms as well as treatments for stress-related symptoms. Understand how various types of essential oils interact with the body to create a sense of physical and emotional well-being.

HOURS: 45 **FEE:** IC: \$293.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 14 – Dec 14	Tu	6:30-9:30 pm	MOR
Winter	821	Jan 13 – Apr 21	Th	6:30-9:30 pm	MOR
Spring	841	May 10 – June 30	Tu	6:30-9:30 pm	MOR

INTRODUCTION TO CANADIAN AND INTERNATIONAL BUSINESS

GNED-119

Study the interface between the external and internal environment of a business organization from the viewpoint of the challenges and opportunities available to you as manager. Focus on the impact of the individual in a contemporary business environment, and understand the framework of business administration.

HOURS: 45 **FEE:** IC: \$271.40 **PB:** \$93.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 14 – Dec 14	Tu	7-10 pm	PRO
	802	Sept 15 – Dec 15	W	7-10 pm	PRO
Winter	821	Jan 11 – Apr 12	Tu	7-10 pm	PRO
	822	Jan 12 – Apr 13	W	7-10 pm	PRO
Spring	841	May 10 – Aug 16	Tu	7-10 pm	PRO
	842	May 9 – June 29	M/W	7-10 pm	PRO

INTRODUCTION TO COMPLEMENTARY THERAPIES

GNED-120

In this introductory survey course you will study the history, development and practical application of complementary therapies and modern medicine. Examine numerous specific complementary therapies from historical, theoretical, and practical application perspectives. Therapies in recognized courses of study or certification which are offered in the complementary care practice courses will be highlighted.

HOURS: 45 **FEE:** IC: \$293.90 **OL:** \$339.10

TERM	SEC. #	DATE	DAY	TIME	LOC
Winter	821	Jan 10 – Apr 18	M	6:30-9:30 pm	MOR

OCCUPATIONAL HEALTH AND SAFETY

GNED-126

Through lectures, discussions and tutorials, learn the fundamental concepts of occupational health and safety.

HOURS: 45 **FEE:** IC: \$293.90 **OL:** \$339.10

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 13 – Dec 20	M	7-10 pm	MOR
Winter	821	Jan 10 – Apr 18	M	7-10 pm	MOR
Spring	841	May 9 – June 29	MW	7-10 pm	MOR

PERSONAL FINANCE

GNED-127

Acquire lifelong skills for making the most of your financial resources. Apply concepts of economic risk and financial security in the preparation of your personal financial plan. Project your future needs and design an investment plan that will work toward your goals. Learn how to promote your financial stability by researching current literature on personal finance issues.

HOURS: 45 **FEE:** IC: \$293.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 14 – Dec 14	Tu	7-10 pm	ASH
Winter	821	Jan 11 – Apr 19	Tu	7-10 pm	ASH

PRINCIPLES OF PSYCHOLOGY

GNED-129

This course spans several important areas of psychology – the scientific method, learning development, personality, abnormality and therapy, among others. It includes a comprehensive coverage of the basic concepts, principles and terminology that are pertinent to each area, and the interpretation and application of findings drawn from recent research and theory, as well as classic studies.

HOURS: 45 **FEE:** IC: \$293.90 **OL:** \$339.10

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 15 – Dec 15	W	7-10 pm	ASH
Winter	821	Jan 12 – Apr 20	W	7-10 pm	ASH
Spring	841	May 10 – June 30	Tu	7-10 pm	ASH

PRINCIPLES OF SOCIOLOGY

GNED-130

Survey basic concepts and themes, with particular reference to North America. Study the mass media of communication, social movements, class structure, problems of alienation, and theories of social change.

HOURS: 45 **FEE:** IC: \$293.90 **OL:** \$339.10

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 15 – Dec 15	W	6:30-9:30 pm	ASH
Winter	821	Jan 12 – Apr 20	W	6:30-9:30 pm	ASH

PSYCHOLOGY IN EVERYDAY LIFE

GNED-131

Explore the concepts and principles of selected areas of psychology. By using involvement exercises and activities, you will demonstrate your knowledge of the information by applying it to aspects of daily living, and in the process, improve your understanding of yourself, your environment, and your daily interactions.

HOURS: 45 **FEE:** IC: \$293.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 16 – Dec 16	Th	7-10 pm	PRO

SOCIAL PSYCHOLOGY

GNED-135

Develop skills for influencing and relating to other people by studying the methods and findings of psychologists in the field of social relationships. Apply the principles of social thinking to everyday experience, and examine theories of social relations and apply them to behaviour.

HOURS: 45 **FEE:** IC: \$293.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Winter	821	Jan 10 – Apr 18	M	7-10 pm	PRO

WELLNESS APPROACH TO STRESS MANAGEMENT

GNED-137

Learn how to effectively cope with stress at home, at school and at work, using a holistic approach. Explore the elements of a balanced lifestyle, such as active living, relaxation and healthy relationships. Learn how to manage time, pace and change. You will participate in presentations, discussions, reflection and awareness exercises, as well as behavior change planning.

HOURS: 45 **FEE:** IC: \$293.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 15 – Dec 15	W	6:30-9:30 pm	ASH
Winter	821	Jan 12 – Apr 20	W	6:30-9:30 pm	PRO

Mathematics

BEFORE REGISTERING FOR A MATHEMATICS COURSE YOU WILL 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

Note: 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.

APPLIED PHYSICS

PHYS-100

This is a basic physics course in kinematics and dynamics.

Prerequisite: MATH-140 or MATH-170 are the co-requisite.

HOURS: 45 **FEE:** IC: \$285.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Spring	841	May 11 – June 29	M/W	6:30-9:30 pm	MOR

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)

HOURS: 60 **FEE:** IC: \$373.95

TERM	SEC. #	DATE	DAY	TIME	LOC
Winter	821	Jan 25 – Mar 31	Tu/Th	6:30-9:30 pm	MOR
Spring	841	May 17– July 21	Tu/Th	6:30-9:30 pm	MOR

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.

HOURS: 45 **FEE:** IC: \$285.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 9 – Dec 16	Th	6:30-9:30 pm	MOR

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. Students will be familiarized with binary, octal, and hexadecimal bases.

Prerequisite: A score of at least 16 on the engineering mathematics assessment.

HOURS: 45 **FEE:** \$285.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Winter	821	Jan 19 – Apr 27	W	6:30-9:30 pm	MOR

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).

HOURS: 60 **FEE:** IC: \$373.95

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 21 – Nov 25	Tu/Th	6:30-9:30 pm	MOR
Spring	841	May 17 – July 21	Tu/Th	6:30-9:30 pm	MOR

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.

HOURS: 60 **FEE:** IC: \$373.95

TERM	SEC. #	DATE	DAY	TIME	LOC
Spring	841	May 17 – July 21	Tu/Th	6:30-9:30 pm	MOR

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.

HOURS: 45 **FEE:** IC: \$285.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Winter	821	Jan 20 – Apr 28	W	6:30-9:30 pm	MOR

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.

HOURS: 45 **FEE:** IC: \$285.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 28 – Nov 16	Tu/Th	6:30-9:30 pm	MOR

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.

HOURS: 45 **FEE:** IC: \$285.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 8 – Dec 15	W	6:30-9:30 pm	MOR

MATHEMATICS FOR COMPUTER SYSTEMS 3

MATH-269

This is a second-year course in probability and statistics for computer systems. The course will cover descriptive statistics and probability. As well, the course will deal with the normal distribution, inferential statistics and linear regression.

Prerequisites: MATH-169

HOURS: 45 **FEE:** \$285.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 28 – Nov 16	Tu/Th	6:30-9:30 pm	MOR
Winter	821	Jan 25 – Mar 15	Tu/Th	6:30-9:30 pm	MOR
Spring	841	May 11 – Jun 29 (no class May 23)	M/W	6:30-9:30 pm	MOR

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.

Prerequisites: A score of 24 to 39 on the business mathematics assessment or permission of the department.

HOURS: 60 **FEE:** IC: \$373.95

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 21 – Nov 25	Tu/Th	6:30-9:30 pm	PRO
	802	Sept 20 – Nov 24 (no class Oct. 11)	M/W	6:30-9:30 pm	PRO
Winter	821	Jan 25 – Mar 31	Tu/Th	6:30-9:30 pm	PRO
	822	Jan 24 – Mar 30 (no class Feb 15)	M/W	6:30-9:30 pm	PRO
Spring	841	May 10 – July 14 (no class May 23)	Tu/Th	6:30-9:30 pm	PRO

MATHEMATICS OF FINANCE 1

MATH-118

This is the first of a two-part course. Topics include fractions, decimals, signed numbers, laws of exponents, basic algebra simple 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. The course concludes ordinary annuities and amortization.

Prerequisites: A score of 16 to 23 on the business mathematics assessment.

HOURS: 60 **FEE:** \$373.95

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 20 – Nov 24 (no class Oct 11)	M/W	6:30-9:30 pm	PRO
Winter	821	Jan 24 – Mar 30 (no class Feb 15)	M/W	6:30-9:30 pm	PRO
Spring	841	May 9 – July 13 (no class May 23)	M/W	6:30-9:30 pm	PRO

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 and amortization.

Prerequisites: Mathematics for Finance MATH-118, a score of 40 to 45 on the business mathematics assessment or permission from the dept.

HOURS: 60 **FEE:** \$373.95

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 20 – Nov 24 (no class Oct 11)	M/W	6:30-9:30 pm	PRO
Winter	821	Jan 24 – Mar 30 (no class Feb 15)	M/W	6:30-9:30 pm	PRO
Spring	841	May 10 – July 14	Tu/Th	6:30-9:30 pm	PRO

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.

HOURS: 45 **FEE:** \$285.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 8 – Dec 15	W	6:30-9:30 pm	MOR
Spring	841	May 11 – June 29 (no class May 23)	M/W	6:30-9:30 pm	MOR

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.

HOURS: 60 **FEE:** \$373.95

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 21 – Nov 25	Tu/Th	6:30-9:30 pm	MOR
Winter	821	Jan 25 – Mar 31	Tu/Th	6:30-9:30 pm	MOR
Spring	841	May 17 – July 21	Tu/Th	6:30-9:30 pm	MOR

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.

HOURS: 45 **FEE:** \$285.90

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 9 – Dec 16	Th	6:30-9:30 pm	MOR
Winter	821	Jan 20 – Apr 28	Th	6:30-9:30 pm	MOR
Spring	841	May 12 – June 30	Tu/Th	6:30-9:30 pm	MOR

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.

HOURS: 45 **FEE:** \$285.90 (inc materials fee – text extra)

TERM	SEC. #	DATE	DAY	TIME	LOC
Fall	801	Sept 8 – Dec 15	W	6:30-9:30 pm	MOR
	802	Sept 12 – Dec 19	Su	9:30-12:30 pm	MOR
Winter	821	Jan 15 – Apr 23	Sa	6:30-9:30 pm	MOR
Spring	841	May 12 – June 30	Tu/Th	6:30-9:30 pm	MOR

**This course will be conducted on-line with a live instructor at the stated time.*

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**.