

Early Childhood Assistant

Program Code: 1212

Program Length: 1 year/2 semesters

Credential: Ontario College Certificate

Start: Fall

Campus: Ashtonbee

communitystudies@centennialcollege.ca

416-289-5303

Program Overview

Early childhood assistants fulfill a vital role in child care settings by providing caring and skilled support to each individual child's needs. Through their understanding of personal and social development as well as health and safety needs, combined with practical training, early childhood assistants are able to effectively support children as they grow through their early years.

You will benefit from field placements in Centennial's two early childhood education centres, which allow you to experience and understand what high quality child care is all about.

This program is designed to support students who have learning disabilities, have a workplace destination level high-school diploma, are mature students (over the age of 19), and/or students who have first languages other than English. By providing students with the small classes, a hands-on approach to learning and lots of opportunities to discuss and practice new skills, Centennial College is able to support your success in becoming a skilled childcare professional.

BENEFITS

PROGRAM HIGHLIGHTS

Graduates have demonstrated the ability to:

- Plan and implement individual programs and curriculum to meet the developmental needs of children
- Utilize a variety of observation techniques to enhance work with children, families and co-workers
- Maintain responsive relationships with individual children and groups of children
- Establish and maintain safe and healthy environments that best meet the requirements of current legislation, regulatory bodies and program policies
- Develop and maintain effective written, oral, non-verbal and electronic communications with children, families, co-workers, employers and individuals/agencies
- Apply relevant legislation, policies, procedures and regulations to early childhood education programs and settings in a changing social context
- Apply a personal philosophy of early childhood education within the framework of ethical and professional standards
- Act in a manner consistent with principles of fairness, equity and diversity to support the development and learning of individual children, within the context of their family, culture and society

DISTINCTIVE BENEFITS FOR CENTENNIAL STUDENTS

- Smaller class sizes
- Hands-on approach to learning
- Opportunity to observe "best practices" in our child care centres
- Supportive faculty

EDUCATIONAL PARTNERS

Each year, between 10 and 33 per cent of program graduates go on to study in Centennial's two-year Early Childhood Education (ECE) program. Many of these students are exempt from some ECE courses as a result of attaining a high level of success in the ECA program. ECA graduates who have successfully completed the ECE program have also been accepted into Ryerson University or York University.

CAREER OUTLOOK

Many of Centennial's graduates find work as child care assistants in child care centers, child care providers with licenced child care agencies, independent child care providers and in-home nannies. As an early childhood assistant, you can look forward to becoming a professional team member.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 or skills assessment

ADDITIONAL REQUIREMENTS

- Applicants are required to attend a Program Admission Session

FIELD PLACEMENT REQUIREMENTS

- Clear police check with vulnerable sector screening
- Clear medical report
- Proof of immunization requirements
- CPR and First Aid Training

All of the above requirements must be in effect for the entire duration of each placement.

ADDITIONAL FEE REQUIREMENTS

- There is an incidental fee of approximately \$80 to cover in-class materials and handouts. The fee does not include textbooks or related supplies

PROGRAM OUTLINE

Semester 1

ENGL-117	ECA English Communications Part 1
KD-102	Health And Wellbeing – Part 1
KD-119	Infant and Toddler Development
KD-106	Introductory Practicum
KD-116	Professionalism
KD-120	The Learning Environment

Semester 2

KD-122	Communicating with Families
ENGL-118	ECA English Communications Part 2
KD-112	Final Practicum
KD-114	Guiding Children's Behaviour
KD-108	Health and Wellbeing – Part 2
KD-121	Preschool and School-Age Learning

At A Glance

- Most courses involve one or two major assignments, a mid-term and a final test
- Assignments include presentations, small group assignments and in-class workshop participation
- Both semesters contain field placement experiences

Early Childhood Education

Program Code: 1221, Progress
1201, Ashtonbee

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall (1221 and 1201) Winter (1221)

Campus: Progress (1221), Ashtonbee (1201)

communitystudies@centennialcollege.ca

416-289-5303

Program Overview

The first priority of Centennial Early Childhood Educators is to provide high standards of quality care to children and their families. They take responsibility for observing the needs of each individual child and groups of children and create a well-planned and stimulating program suited to each child's needs. The program's skilled graduates are able to provide an enriched learning environment for infants, toddlers, pre-school and school-age children.

Centennial's highly respected Early Childhood Education program is offered on a full-time basis at both Progress and Ashtonbee campuses, providing you with a choice study location. Our part-time studies Early Childhood Education program is offered at the Progress campus. In addition, Centennial operates two early childhood education centres as lab schools, which allow students to experience and understand what high quality child care is all about.

GLOBAL CITIZENSHIP AND EQUITY PORTFOLIO

Students in this program will develop a portfolio documenting their engagement with the College's signature global citizenship and equity competencies. For more information on Global Citizenship and Equity, the GC&E Portfolio and the supports available to you, please see page i.

BENEFITS

PROGRAM HIGHLIGHTS

Graduates have demonstrated the ability to:

- Plan curriculum that is based on a thorough understanding of child development
- Plan and implement individual programs and curriculum to meet the developmental needs of children
- Utilize a variety of observation techniques to enhance work with children, families and co-workers
- Maintain responsive relationships with individual children and groups of children
- Establish and maintain safe and healthy environments that best meet the requirements of current legislation, regulatory bodies and program policies

- Develop and maintain effective written, oral, nonverbal and electronic communications with children, families, co-workers, employers and individuals/agencies
- Apply relevant legislation, policies, procedures and regulations to early childhood education programs and settings in a changing social context

DISTINCTIVE BENEFITS FOR CENTENNIAL STUDENTS

- New re-energized curriculum reflecting current trends and directions in the field
- Interaction with lab child care centres to see and practice high quality care

EDUCATIONAL PARTNERS

Qualified graduates may be eligible to participate in an articulated program with selected universities. These partnerships allow graduates to apply academic credit towards further study.

Our partners are:

- Athabasca University (Early Childhood Education degree)
- Ryerson University (Early Childhood Education degree)
- Griffith University, Australia (Bachelor of Arts in Education)

CAREER OUTLOOK

As a Centennial Early Childhood Education graduate you will be highly regarded in the field. Graduates are qualified professionals who may gain employment with well-established nursery schools, child care centres and community services such as drop-in centres, shelters for women and children and parent resource centres. Graduate employment, graduate and employer satisfaction have all consistently remained above 80 per cent for several years.

Graduates must register with the College of Early Childhood Educators in order to practice as a member of the profession.

Organizations hiring program graduates include:

- Aisling/Discoveries Centre for Children & Families
- Chartland Child Care Centre
- Friends Day Care
- Nellie's Hostels
- Toronto Board of Education
- YMCA

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U (minimum grade required) or equivalent, or skills assessment.

NOTES

1. This program is considered "highly competitive" and fills early. To be considered for the program, you should apply prior to the Ontario Colleges equal consideration date of February 1 and submit transcripts or complete skills assessments as early as possible. (For January intake apply prior to June 1. January intake students will need to attend the following summer semester.)
2. For applicants who are currently attending high school in Ontario: please advise your school guidance department that you have applied to an Ontario College. Your midterm and final grades will be transmitted automatically to the college.
3. Attending a program admission session is highly recommended

FIELD PLACEMENT REQUIREMENTS

- Annual clear police check with vulnerable sector screening
- Valid first aid and CPR certificates must be acquired prior to the beginning of second semester
- Transportation costs are involved in some field experience assignments

PROGRAM OUTLINE

Semester 1

ECEP-104	An Introduction to Early Childhood Education*
COMM-160/161	College Communications 1
ECEP-105	Field Preparation
ECEP-101	Keys to Success in ECE
ECEP-103	The Healthy Development of the Whole Child*
ECEP-102	The Learning Environment: The Third Teacher*

Semester 2

COMM-170/171	College Communications 2
ECEP-135	Field Placement 1: Infant and Toddler*
ECEP-132	Guidance and the Individual Child*
ECEP-133	Health and Wellbeing of Young Children*
ECEP-130	Observable Child Development*
GNED-129	Principles of Psychology
ECEP-131	The Child at the Centre of the Curriculum*

Semester 3

ECEP-231	Child Development: Theoretic Perspectives*
ECEP-229	Curriculum: Project Development*
GNED-500	Global Citizenship: From Social Analysis to Social Action
ECEP-230	Guidance: Empowering Children's Independence*
ECEP-235	Preschool Field Practicum*
ECEP-232	Understanding and Communicating with Families*

Semester 4

ECEP-236	Advocacy and the Emerging Professional* Child Abuse*
ECEP-237	General Education Elective
GNED	Inclusion of Children with Special Needs*
ECEP-233	Preschool and School Curriculum*
ECEP-234	Preschool, School-Age, Specialized
ECEP-245	Field Practicum*

*minimum C grade required

Electrical Engineering Technician

Program Code: 3822 **NEW**

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall, Winter

Campus: Progress

eet@centennialcollege.ca

416-289-5000, ext. 2356

Program Overview

The Electrical Engineering Technician program will provide a solid foundation in electrical and electronic theory and practices. Students will have exposure to a defined range of electrical functions, such as installations, testing, maintaining, repairing, analyzing and troubleshooting specific kinds of electrical circuits, equipment, and systems, under the supervisions of a qualified person. SETAS labs will provide extensive practice and ample opportunity to develop skills required to assume entry level positions in the industry.

BENEFITS

PROGRAM HIGHLIGHTS

- Modern labs and lecture facilities at the Progress Campus create a healthy learning environment
- Gain experience in producing electrical drawings as well as diagnostics and analysis of electrical systems
- Acquire understanding of testing and troubleshooting electrical power systems
- Project approach to learning, simulating actual workplace assignments
- Obtain thorough grounding in electrical engineering sciences and skills, including electrical circuits, maintenance of electrical instruments or devices, operation of electrical motors and power transmission as used in the industry
- A technical skills shortage is looming both regionally and national in Canada. This program will help fill these technical positions as the manufacturing sector becomes more specialized, the construction industry flourishes, and retirement rates increase.

CAREER OUTLOOK

Upon completion of the program, graduates may:

- work as entry-level electrical engineering technicians in a range of employment settings in commercial, utility and industries using electrical technology
- work in various electrical environments including those relating to power distribution and utilization; electrical power generation; transmission and protection; industrial telecommunications; electrical maintenance and installation; and control systems. The range of functions would be limited and under the supervision of a qualified person to ensure safety and compliance with relevant codes and standard practices.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD), or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U or equivalent, or skills assessment.
- Math Grade 11 M, C or U or Grade 12 M, C or U, or equivalent, or skills assessment

PROGRAM OUTLINE

Semester 1

EET-111	Canadian Electrical Code 1 & Drawing Interpretation 1
COMM-160/161	College Communications 1
EET-112	Electrical Theory and Installations 1
EET-113	Electronics 1 & INSTR 1
GNED-212	Ethics in Technology and the Environment
MATH-101	Mathematics 1

Semester 2

EET-121	Canadian Electrical Code 2 & Drawing Interpretation 2
COMM-170/171	College Communications 2
EET-122	Electrical Theory and Installations 2
EET-123	Electronics 2
GNED-500	Global Citizenship: From Social Analysis to Social Action

Semester 3

EET-211	Canadian Electrical Code 3
EET-212	Electrical Theory and Installations 3
EET-213	Fluid Power – Hydraulics
GNED	General Education Elective
EET-214	INSTR 2 & Monitoring Systems
MATH-102	Mathematics 2

Semester 4

EET-225	Capstone Project
EET-221	Drawing Interpretation 3
EET-226	Electric Power Generation & Distribution
EET-223	Electronics 3
EET-222	INSTR 3
EET-224	Network & Advanced Control System

At A Glance

Graduates are prepared to work in electrical and related areas such as:

- power distribution and utilization
- electrical power generation, transmission, and protection
- industrial telecommunications
- electrical maintenance and installation
- control systems
- services
- sales
- design
- repairs.

Electrician: Construction and Maintenance – Electrical Engineering Technician

Program Code: 3821 (co-op) **NEW**

Program Length: 2 years/6 semesters

Credential: Ontario College Diploma

Start: Fall

Campus: Progress

CODA1@centennialcollege.ca

416-289-5000, ext. 2356

Program Overview

This Co-op Diploma Apprenticeship program enables students to train as apprentices in Electrician trade (309A) while obtaining a two-year post secondary engineering technician diploma in the Electrical Engineering field. Students obtain a thorough grounding in electrical engineering sciences and skills, including electrical circuits, maintenance of electrical instruments or devices, operation of electrical motors and power transmission as used in the industry.

Eight months of the program time is spent on a Co-op placement arranged by the college. The hours earned during the Co-op placement are counted towards the practical part of apprenticeship training.

BENEFITS

PROGRAM HIGHLIGHTS

- Requirements for both in school apprenticeship curriculum and an Ontario College diploma are completed.
- In-school theory and lab experience is combined, in this unique program.
- On the job experience in a paid co-op placement.
- Electrician/Electrical Engineering Technician Coop Diploma Apprenticeship (CODA) graduates can look forward to exciting careers in the areas of Service, Installation, Repairs, Sales, and Design.
- Project approach to learning, simulating actual workplace assignments

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD), GED or equivalent

ACADEMIC REQUIREMENTS

- English Grade 12 C or U or equivalent, or skills assessment.
- Math Grade 11 M, C or U or Grade 12 M, C or U, or equivalent, or skills assessment

ADDITIONAL REQUIREMENTS

- Submit questionnaire, resumé and references to determine apprenticeship employability; an employer interview may be required

PROGRAM OUTLINE

Semester 1

COMM-160/161	College Communications 1
ECME-111	Electrical Code 1 & Prints 1
ECME-112	Electrical Theory 1
ECME-114	Electronics 1 & INSTR 1
GNED-212	Ethics in Technology and the Environment
ECME-113	Installation Methods 1
MATH-101	Mathematics 1

Semester 2

COMM-170/171	College Communications 2
ECME-121	Electrical Code 2 & Prints 2
ECME-122	Electrical Theory 2
ECME-124	Electronics 2
COOP-621	Employment Preplacement 4
GNED-500	Global Citizenship: From Social Analysis to Social Action
ECME-123	Installation Methods 2

COOP-622 Co-op Apprentice Placement 1

COOP-623 Co-op Apprentice Placement 2

Semester 3

ECME-211	Canadian Electrical Code 3
ECME-212	Electrical Theory 3
GNED	General Education Elective
ECME-213	Installation Methods 3
ECME-214	INSTR 2 & Monitoring Systems
MATH-102	Mathematics 2

Semester 4

ECME-226	Design and Development Course
ECME-224	Electronics 3
ECME-221	Fluid Power (Industrial Only)
ECME-223	INSTR 3
ECME-225	Network & Advanced Control System
ECME-227	Power Generation & Distribution
ECME-222	Prints 3 (Construction & Maintenance Only)

Electro-Mechanical Engineering Technician – Automation and Robotics

Program Code: 4105
Program Length: 2 years/4 semesters
Credential: Ontario College Diploma
Start: Fall, Winter
Campus: Progress
automation@centennialcollege.ca
416-289-5000, ext. 2356

Program Overview

Build a rewarding career in the field of automation and robotics with the expertise you will gain in this comprehensive program. The program focuses on automated systems which are at the heart of virtually all advanced manufacturing industries.

The emphasis is on the basic technology used in building and operating automated industrial systems: Programmable Logic Controllers (PLCs), hydraulics, pneumatics, electronics and robotics. The program will give you a thorough understanding of theory, along with practical, hands-on laboratory experience.

This program allows you to either graduate as a technician after two years, or continue for additional study and co-op work experience in Centennial's three-year Automation and Robotics Technology program. .

Fast forward to the Fast-track options, pages 159 and 160.

BENEFITS

PROGRAM HIGHLIGHTS

- In-depth study is provided from fundamentals to advanced systems
- You will gain hands-on experience in Programmable Logic Controllers (PLCs), robotics, hydraulics, pneumatics and electronics
- Strong on-campus Automation and Robotics Student Society organizes events such as career nights and industrial visits
- Program is accredited by Canadian Technology Accreditation Board (CTAB)
- Key-school status with the U.S.-based Fluid Power Education Foundation (FPEF)
- Widely-used technologies are applicable to many different industries

CAREER OUTLOOK

Knowledge is highly portable, qualifying graduates for openings in a variety of different industries throughout the world. Graduates are in high demand throughout the manufacturing sector, including:

- Automotive
- Food
- Pharmaceuticals
- Packaging
- Aircraft
- Communications

CTAB NATIONALLY ACCREDITED PROGRAM

The Electro-Mechanical Engineering Technician/Technology – Automation and Robotics programs have met the national technology accreditation requirements established by the Canadian Council of Technicians and Technologists (CCTT) and, as such, have received national accreditation status by the Canadian Technology Accreditation Board (CTAB).

RECOGNITION AS A CERTIFIED ENGINEERING TECHNICIAN/TECHNOLOGIST



The Ontario Association of Certified Engineering Technicians and Technologists (OACETT) recognizes the Electro-Mechanical Engineering Technician/Technology –

Automation and Robotics programs as meeting all the academic requirements for certification in the respective Technician/Technology categories.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U, or equivalent, or skills assessment.
- Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment

TRANSFER REQUIREMENTS

Additional courses MATH-231 (Differential Calculus with Analytic Geometry) and MATH-232 (Integral Calculus) will be required for students who wish to transfer from the technician to the technology program. Both math courses must be completed prior to semester five.

PROGRAM OUTLINE

Semester 1

COMM-160/161 College Communications 1
 ROBO-115 Computer Aided Drafting
 ROBO-112 Electric Circuits
 GNED-212 Ethics in Technology and the Environment
 PHYS-100 Physics
 MATH-170 Technology Mathematics 2

Semester 2

COMM-170/171 College Communications 2
 ROBO-234 Electronic Devices
 ROBO-121 Hydraulic Systems 1
 ROBO-122 Pneumatic Components
 ROBO-123 Statics
 MATH-180 Technology Mathematics 3

Semester 3

ROBO-124 Digital Electronics
 GNED-500 Global Citizenship: From Social Analysis to Social Action
 ROBO-231 Hydraulic Systems 2
 MT-120 Machine Shop
 ROBO-232 Pneumatic Circuits
 ROBO-237 Robotic Devices

Semester 4

GNED General Education Elective
 ROBO-241 Hydraulic Systems 3
 ROBO-243 Maintenance and Troubleshooting
 ROBO-240 Mechanics and Materials
 ROBO-242 PLC/Pneumatic Interfacing
 ENGL-250 Report Writing in a Technical Environment
 ROBO-247 Robotic Applications

Note: Students will be placed in the appropriate English and math level based on skills assessment results.

At A Glance

Graduates are prepared for jobs in industrial areas such as:

- Technical sales and service
- Manufacturing and maintenance
- Integration (Automation houses)

Flow chart for the A&R programs (Fall and Winter intakes for programs 4105, 4106 and 4116)

Program	Intake	Diploma	Year 1			Year 2			Year 3			Year 4		
			Fall	Winter	Summer	Fall	Winter	Summer	Fall	Winter	Summer	Fall	Winter	
4105	Fall	Technician	S1	S2	Vacation	S3	S4							
4105	Winter	Technician		S1	S2	S3	S4							
4106	Fall	Technology	S1	S2	Vacation	S3	S4	Vacation	S5	S6				
4106	Winter	Technology		S1	S2	S3	S4	Vacation	S5	S6				
4116	Fall	Technology (PTY)	S1	S2	Vacation	S3	S4	Vacation	S5	PTY	PTY	PTY	S6	
4116	Winter	Technology (PTY)		S1	S2	S3	S4	Vacation	S5	PTY	PTY	PTY	S6	

Legend:

Fall = Start September

Winter = Start January

Summer = Start May

S1, S2 = Semester 1, Semester 2

PTY = Professional Technology Year (Co-op work term)

Electro-Mechanical Engineering Technology – Automation and Robotics

Program Code: 4106

4116 (PTY)

Program Length: 3 years/6 semesters (4106)
3 years/9 semesters (4116)

Credential: Ontario College
Advanced Diploma

Start: Fall, Winter

Campus: Progress

automation@centennialcollege.ca

416-289-5000, ext. 2356

Program Overview

Play a key role in the world of technology with the in-depth knowledge you'll gain in this program. Automation is used in virtually every industry today and the demand is high for trained graduates.

You will study the full-range of automation theory and mechanics, from basic circuitry through to its application in a manufacturing system. You will also learn about hydraulics, pneumatics, electrics, electronics, robotics and Programmable Logic Controllers (PLCs).

Special attention is given to embedded systems using microcontrollers, quality control using vision inspection and SPC and continuous feedback control using PID. You will learn integration of automated equipment through its design, fabrication and installation

BENEFITS

PROGRAM HIGHLIGHTS

- You will gain hands-on experience in PLC & robotics, hydraulics, pneumatics, electronics & microcontrollers, motion control, automated vision systems, SPC and HMI design.
- Strong on-campus Automation and Robotics Student Society organizes events such as career nights and industrial visits
- Program is accredited by CTAB
- Key-school status with the U.S.-based Fluid Power Education Foundation (FPEF), offers graduate scholarships and job search support
- Opportunity exists for one-year paid work experience PTY (Professional Technology Year)

Fast forward to the Fast-track options, pages 159 and 160.

EDUCATIONAL PARTNERS

Qualified graduates may be eligible to participate in continuing studies with McMaster University (Bachelor of Technology degree) or in a one year articulated program with Cape Breton University (Bachelor of Engineering Technology degree).

CAREER OUTLOOK

- Graduates are in high demand in industries such as automotive, food, pharmaceuticals, packaging, aircraft, and communications
- Graduates are also suited for jobs in building automation, mining, transportation and power generation sectors.
- Knowledge is highly portable, qualifying graduates can work in a variety of industries.

CTAB NATIONALLY ACCREDITED PROGRAM

The Electro-Mechanical Engineering Technician/Technology – Automation and Robotics programs have met the national technology accreditation requirements established by the Canadian Council of Technicians and Technologists (CCTT) and, as such, have received national accreditation status by the Canadian Technology Accreditation Board (CTAB).

RECOGNITION AS A CERTIFIED ENGINEERING TECHNICIAN/TECHNOLOGIST

The Ontario Association of Certified Engineering Technicians and Technologists (OACETT) recognizes the Electro-Mechanical Engineering Technician/Technology – Automation and Robotics programs as meeting all the academic requirements for certification in the respective Technician/Technology categories.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U, or equivalent, or skills assessment.
- Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment

At A Glance

Graduates are prepared to work in any of the following sections/industries:

- Automotive
- Food
- Pharmaceutical
- Plastics
- Packaging
- Transportation
- Building automation
- Power generation
- Technical sales

CO-OP REQUIREMENTS

- Minimum C grade in COMM-170/171, minimum 2.5 GPA and 80 per cent of year 1 and 2 courses required for COOP-221

PROGRAM OUTLINE

Semester 1

COMM-160/161 College Communications 1
ROBO-115 Computer Aided Drafting
ROBO-112 Electric Circuits
GNED-212 Ethics in Technology and the Environment
PHYS-100 Physics
MATH-170 Technology Mathematics 2

Semester 2

COMM-170/171 College Communications 2
ROBO-234 Electronic Devices *
GNED-500 Global Citizenship: From Social Analysis to Social Action
ROBO-121 Hydraulic Systems 1*
ROBO-122 Pneumatic Components*
ROBO-123 Statics
MATH-180 Technology Mathematics 3*

Semester 3

MATH-231 Differential Calculus and Analytic Geometry*
ROBO-124 Digital Electronics*
ROBO-231 Hydraulic Systems 2*
MT-120 Machine Shop
ROBO-232 Pneumatic Circuits*
ROBO-237 Robotic Devices*

Semester 4

ROBO-241 Hydraulic Systems 3*
MATH-232 Integral Calculus*
ROBO-240 Mechanics and Materials
ROBO-242 PLC/Pneumatic Interfacing*
ENGL-250 Report Writing in a Technical Environment
ROBO-247 Robotic Applications*

Semester 5

ROBO-356 Design & Development Project I
ROBO-354 Electric Machinery & Microcontrollers
COOP-221 Employment Preplacement (4116)
ROBO-350 Fluid Mechanics and Dynamics
GNED General Education Elective
ROBO-351 Hydrostatic Systems and Design
ROBO-352 PLC/Pneumatic Systems 1

COOP-222

COOP-331

COOP-332

Semester 6

ROBO-366 Design & Development Project II
ROBO-363 Diagnostics and Maintenance
ROBO-361 Electro-hydraulic Systems
ROBO-364 Feedback Control
ROBO-367 Industrial Production Applications
ROBO-362 PLC/Pneumatic Systems 2

Notes:

- Students will be placed in the appropriate English and math level based on skills assessment results
- Please refer to program model route for course prerequisite. Changes are subject to approval.

*minimum C grade required for technologist graduation

Flow chart for the A&R programs (Fall and Winter intakes for programs 4105, 4106 and 4116)

Program	Intake	Diploma	Year 1			Year 2			Year 3			Year 4			Legend:
			Fall	Winter	Summer	Fall	Winter	Summer	Fall	Winter	Summer	Fall	Winter		
4105	Fall	Technician	S1	S2	Vacation	S3	S4								Fall = Start September
4105	Winter	Technician		S1	S2	S3	S4								Winter = Start January
4106	Fall	Technology	S1	S2	Vacation	S3	S4	Vacation	S5	S6					Summer = Start May
4106	Winter	Technology		S1	S2	S3	S4	Vacation	S5	S6					S1, S2 = Semester 1, Semester 2
4116	Fall	Technology (PTY)	S1	S2	Vacation	S3	S4	Vacation	S5	PTY	PTY	PTY	PTY	S6	PTY = Professional Technology Year (Co-op work term)
4116	Winter	Technology (PTY)		S1	S2	S3	S4	Vacation	S5	PTY	PTY	PTY	PTY	S6	

Electronics Engineering Technician

Program Code: 3205

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall, Winter

Campus: Progress

elec@centennialcollege.ca

416-289-5000, ext. 3556

Program Overview

The Electronics Engineering Technician program prepares you for a challenging career in the electronics field. You will develop technical expertise in areas such as wireless communications, data communications, microcontrollers and industrial systems.

You will also work with computers, communication transceivers and electronics testing and measurement equipment, while developing a solid foundation in modern electronics.

The program is only two years in length and has an optimum balance between hands-on experience and theory. Students with a minimum 2.0 GPA may be eligible to transfer into the fifth semester of the technologist program.

Fast forward to the Fast-track options, pages 161 and 162.

BENEFITS

PROGRAM HIGHLIGHTS

- Modern laboratory equipment is provided
- Theory is reinforced by laboratory work
- A healthy learning environment exists
- The program has an active student branch of the Institute of Electrical and Electronics Engineers (IEEE)
- Graduates may become members of a multidisciplinary group involved in equipment manufacturing or installation, research and testing, equipment maintenance and repair, and sales

CAREER OUTLOOK

Companies that have hired graduates of this program include:

- Bell Technical solutions
- Celestica
- Leitch
- Research In Motion (RIM)
- SMTC Manufacturing
- Toronto Hydro
- TTC

CTAB NATIONALLY ACCREDITED PROGRAM

The Electronics Engineering Technician program has met the national technology requirements established by the Canadian Council of Technicians and Technologists (CCTT) and, as such, has received national accreditation status by the Canadian Technology Accreditation Board (CTAB).

RECOGNITION AS A CERTIFIED ENGINEERING TECHNICIAN/TECHNOLOGIST



The Ontario Association of Certified Engineering Technicians and Technologists (OACETT) recognizes the Electronics Engineering Technician program as meeting all the academic requirements for certification in the technician category.

At A Glance

Graduates of the program are prepared to work in fields such as:

- Telecommunications
- Computer applications
- Control systems
- Radio and television equipment
- Audio-visual equipment

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U, or equivalent, or skills assessment.
- Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment

PROGRAM OUTLINE

Semester 1

COMM-160/161	College Communications 1
ETEC-101	Electronics Shop Practices
ETEC-102	Digital Electronics 1
ETEC-103	Electric Circuits 1
ETEC-104	Technical Report Writing Tools in MS
ETEC-116	Computer Hardware & Networks
MATH-170	Technology Math 2

Semester 2

COMM-170/171	College Communications 2
CTEC-208	C/C++ Programming
ETEC-121	Electronics 1
ETEC-122	Digital Electronics 2
ETEC-123	Electric Circuits 2
GNED-212	Ethics in Technology and the Environment
MATH-180	Technology Math 3

Semester 3

ETEC-201	Electronics 2
ETEC-202	Microcontrollers 1
ETEC-203	Measurement & Instrumentation
ETEC-204	Electronic Communication Systems
ETEC-205	RF Transmission & Measurements
GNED-500	Global Citizenship: From Social Analysis to Social Action

Semester 4

EMPS-101	Employment Skills 1
ETEC-221	Electronics 3
ETEC-222	Microcontrollers 2
ETEC-223	Control Systems 1
ETEC-224	Data Communications & Networks
ETEC-225	Quality Control & Technician Project
GNED	General Education Elective

Note: Students will be placed in the appropriate English and math level based on skills assessment results

Electronics Engineering Technology

Program Code: 3206

3216 (co-op)

Program Length: 3 years/6 semesters (3206)

3 years/9 semesters (3216)

Credential: Ontario College

Advanced Diploma

Start Fall, Winter

Campus: Progress

elec@centennialcollege.ca

416-289-5000, ext. 3556

Program Overview

The Electronics Engineering Technology program prepares you for a challenging career in the electronics field.

This three-year program prepares graduates for a variety of full-time jobs in the electronics industry, including electronic product design and development, manufacturing, service and technical sales. You will obtain an in-depth education in telecommunications, wireless networks, fibre optics, digital signal processing, microcontrollers, computer, quality assurance and industrial controls. You will be able to assist in design, and troubleshoot, analyze, repair, test, measure and document a variety of electronic systems and subsystems.

The program provides an optimum balance between theory and hands-on experience. Electronics Engineering students may be eligible to graduate as a technician after the first two years, or continue onto this advanced diploma. In this program, academically qualified students enhance their academic experience with on-the-job experience in the co-op work terms.

Fast forward to the Fast-track options, pages 161 and 162.

BENEFITS

PROGRAM HIGHLIGHTS

- The program is an active student chapter of the Institute of Electrical and Electronic Engineers, as well as Amateur Radio Club
- Modern labs and lecture facilities create a healthy learning environment
- Graduates may become members of a multidisciplinary group involved in equipment manufacturing or installation, research and testing, equipment maintenance and repair, and sales

EDUCATIONAL PARTNERS

Qualified graduates may be eligible to participate in an articulated program with selected universities, institutes and professional associations. These partnerships allow graduates to apply academic credit towards further study.

Our partners are:

- Athabasca University, Science degree
- Cape Breton University, Engineering Technology degree
- Lakehead University, Engineering degree

CAREER OUTLOOK

Graduates of this program are prepared to work in a wide range of specialties in electronics, including:

- Telecommunications
- Wireless
- Fibre optics
- Embedded systems
- Electronics manufacturing and technical sales
- Radio and television manufacturing
- Other consumer product manufacturing

Companies that have hired graduates of this program include:

- Optys
- Solectron
- SMTC Manufacturing Corp.
- Telesat
- ViDix Technology Corp

CTAB NATIONALLY ACCREDITED PROGRAM

The Electronics Engineering Technology program has met the national technology accreditation requirements established by the Canadian Council of Technicians and Technologists (CCTT) and, as such, has received national accreditation status by the Canadian Technology Accreditation Board (CTAB).

RECOGNITION AS A CERTIFIED ENGINEERING TECHNICIAN/TECHNOLOGIST

The Ontario Association of Certified Engineering Technicians and Technologists (OACETT) recognizes the Electronics Engineering Technology program as meeting all the academic requirements for certification in the Technologist category.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U, or equivalent, or skills assessment.
- Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment

CO-OP REQUIREMENTS

- Minimum C grade in COMM-170/171, minimum 2.5 GPA and minimum 80 per cent of first year courses required for COOP-221

PROGRAM OUTLINE

Semester 1

COMM-160/161	College Communications 1
EETEC-116	Computer Hardware & Networks
EETEC-102	Digital Electronics 1
EETEC-103	Electric Circuits 1
EETEC-101	Electronics Shop Practices
EETEC-104	Technical Report Writing Tools in MS Office
MATH-170	Technology Mathematics 2

Semester 2

CTEC-208	C/C++ Programming
COMM-170/171	College Communications 2
EETEC-122	Digital Electronics 2
EETEC-123	Electric Circuits 2
EETEC-121	Electronics 1
GNED-212	Ethics in Technology and the Environment
MATH-180	Technology Math 3

Semester 3

EETEC-204	Electronic Communication Systems
EETEC-201	Electronics 2
COOP-221	Employment Preplacement (3216)
GNED-500	Global Citizenship: From Social Analysis to Social Action
EETEC-203	Measurement & Instrumentation
EETEC-202	Microcontrollers 1
EETEC-205	RF Transmission & Measurements

COOP-222

Co-op Work Placement 1 (3216)

Semester 4

MATH-285	Calculus
EETEC-223	Control Systems 1
EETEC-224	Data Communications & Networks
EETEC-221	Electronics 3
GNED	General Education Elective
EETEC-222	Microcontrollers 2
ENGL-250	Report Writing in a Technical Environment

COOP-331

Co-op Work Placement 2 (3216)

Semester 5

EETEC-304	Advanced Communication Systems
EETEC-303	Computer Supported Design
EETEC-302	Data Acquisition & Interfacing
EETEC-305	Digital Communications
EETEC-301	Electronic Systems Analysis
PHYS-307	Physics For Electronics
EETEC-306	QA and Project Management

COOP-332

Co-op Work Placement 3 (3216)

Semester 6

EETEC-323	Control Systems 2
EETEC-321	Digital Signal Processing
EETEC-322	Embedded Systems
EETEC-325	Fiber Optics Communications
EETEC-326	Technical Project
EETEC-324	Wireless Networks & Applications
EMPS-101	Employment Skills (3206)

Energy Systems Engineering Technician

Program Code: 3755

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall, Winter

Campus: Progress

energy@centennialcollege.ca

416-289-5000, ext. 2356

Program Overview

Society's changing views on energy and environment are transforming the utility and construction sectors. The utility sector is currently undergoing a radical shift in operating practice that opens doors to a range of innovative energy projects using small-scale sources such as solar, wind, hydro, fuel cells, gas turbines and biomass to feed electricity, heat and air conditioning to our homes and businesses.

The construction industry has adopted a host of new green building initiatives that are quickly increasing awareness and the use of sustainable, integrated architecture and engineering practices for new buildings. Manufacturers have many new products that provide ways to implement advanced energy control in commercial and residential structures. The challenge and opportunity is to learn how to integrate and use all of these modern sustainable energy technologies in a manner consistent with our urban environments.

The Energy Systems Engineering Technician program teaches you the fundamental skills to understand energy and its uses in modern society. The program is challenging, but offers a unique blend of technical, managerial and entrepreneurial skills that are highly sought after in modern energy and sustainable building companies.

BENEFITS

PROGRAM HIGHLIGHTS

- Opportunity exists to work on state-of-the-art energy systems
- A strong focus is placed on practical labs to enhance classroom learning
- Applied research and development projects promote innovation skills
- Technical curriculum is complemented by project management skills
- Upon successful completion of the two-year Energy Systems Engineering Technician program, students have the option to enter year three of the Energy Systems Engineering Technology program

CAREER OUTLOOK

Most people currently working in the energy industry are engineers or skilled tradespersons who have accumulated enough on-the-job experience to understand a broad range of technologies. However, a widening skilled-labour shortage and quickly advancing technology in the energy sector are creating huge demand for technicians who possess a breadth of knowledge across the mechanical, electrical, electronic and automation engineering fields.

Graduates are prepared to apply knowledge of heat transfer, fluid mechanics, computational fluid dynamics and mechanics to industries such as:

- Moulding and casting
- Integrated circuit packaging
- Heat exchanger/boiler design and manufacture
- Petrochemical processing

At A Glance

Graduates are prepared to:

- Implement energy solutions for commercial and residential buildings using knowledge of energy systems, energy efficiency and renewable/distributed energy systems
- Operate power plants of various sizes
- Design and maintain heating, ventilating, air conditioning and refrigeration units
- Work with architectural companies to integrate energy technologies into the latest green buildings

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS:

- English Grade 12 C or U, or equivalent, or skills assessment.
- Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment

PROGRAM OUTLINE

Semester 1

COMM-160/161	College Communications 1
ROBO-115	Computer Aided Drafting
ROBO-112	Electric Circuits
ESET-111	Energy, Environment and Society
PHYS-100	Physics
MATH-170	Technology Mathematics 2

Semester 2

MT-121	Applied Statics
ESET-122	Chemistry Applications and Climate
COMM-170/171	College Communications 2
ROBO-234	Electronic Devices
ESET-121	Fabrication and Installation
GNED-500	Global Citizenship: From Social Analysis to Social Action
MATH-180	Technology Mathematics 3

Semester 3

ESET-212	Boilers & Auxiliaries
MATH-231	Differential Calculus and Analytic Geometry
ESET-211	Digital & Power Electronics
GNED-212	Ethics in Technology and the Environment
ROBO-240	Mechanics and Materials
ESET-213	Renewable Energy System

Semester 4

ESET-224	Design Project
ESET-221	Fluid Mechanics & Dynamics
GNED	General Education Elective
ESET-225	Pneumatics/PLC
ESET-223	Power Engineering and HVAC
ESET-222	Wind and Solar Energy

Note: Students will be placed in the appropriate English and math level based on skills assessment results.

Energy Systems Engineering Technology

Program Code: 3756
3757 (PTY)¹

Program Length: 3 years/6 semesters (3756)
3 years/9 semesters (3757)

Credential: Ontario College

Advanced Diploma

Start: Fall, Winter

Campus: Progress

energy@centennialcollege.ca

416-289-5000, ext. 2356

Program Overview

Our society's changing views on energy and environment are transforming the utility and construction sectors. The challenge and opportunity is to learn how to integrate and use modern sustainable energy technologies in a manner consistent with our urban environments.

The Energy Systems Engineering Technology program teaches you the fundamental skills to understand energy and its uses in modern society. The program is challenging, but offers a unique blend of technical, managerial and entrepreneurial skills that are highly sought after in modern energy and sustainable building companies.

PROFESSIONAL TECHNOLOGY OPTION (PTY)

This program offers an optional professional technology year (PTY). Academically-qualified students enhance their education by working a full calendar year as paid employees in the field. The experience not only allows you to put classroom learning into practice, but also provides valuable contacts for future careers.

At A Glance

Graduates of the program are prepared to:

- Implement energy solutions for commercial and residential buildings using knowledge of energy systems, energy efficiency and renewable/distributed energy systems
- Design, assemble and program building automation systems
- Develop advanced control systems for energy, chemical processes or manufacturing
- Design and maintain heating, ventilating, air conditioning and refrigeration units
- Operate power plants of various sizes

BENEFITS

PROGRAM HIGHLIGHTS

- Opportunity exists to work on state-of-the-art energy systems
- Applied research and development projects promote innovation skills
- The technical curriculum complemented by project management skills

EDUCATIONAL PARTNERS

Qualified graduates may be eligible to participate in an articulated program with selected universities and institutes. These partnerships allow graduates to apply academic credit towards further study.

Our partners are:

- Athabasca University, Science degree
- Lakehead University, Engineering degree

CAREER OUTLOOK

A widening skilled-labour shortage and quickly advancing technology in the energy sector are creating huge demand for technicians who possess a breadth of knowledge across the mechanical, electrical, electronic and automation engineering fields.

Graduates are prepared to:

- Work with architectural companies to integrate energy technologies into the latest green buildings
- Apply knowledge of heat transfer, fluid mechanics, computational fluid dynamics and mechanics to industries such as: moulding and casting, integrated circuit packaging, heat exchanger/boiler design and manufacture, and petrochemical processing

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U, or equivalent, or skills assessment.
- Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment

CO-OP REQUIREMENTS

- Minimum C grade in COMM-170/171, minimum 2.5 GPA and minimum 80 per cent of year 1 and 2 courses required for COOP-221

PROGRAM OUTLINE

Semester 1

COMM-160/161 College Communications 1
ROBO-115 Computer Aided Drafting
ROBO-112 Electric Circuits
ESET-111 Energy, Environment and Society
PHYS-100 Physics
MATH-170 Technology Mathematics 2

Semester 2

MT-121 Applied Statics*
ESET-122 Chemistry Applications and Climate
COMM-170/171 College Communications 2
ROBO-234 Electronic Devices
ESET-121 Fabrication and Installation
GNED-500 Global Citizenship: From Social Analysis to Social Action
MATH-180 Technology Mathematics 3

Semester 3

ESET-212 Boilers & Auxiliaries
MATH-231 Differential Calculus and Analytic Geometry
ESET-211 Digital & Power Electronics
GNED-212 Ethics in Technology and the Environment
ROBO-240 Mechanics and Materials
ESET-213 Renewable Energy System*

Semester 4

ESET-221 Fluid Mechanics & Dynamics*
GNED General Education Elective
MATH-232 Integral Calculus
ESET-225 Pneumatics/PLC
ESET-223 Power Engineering and HVAC
ESET-222 Wind and Solar Energy*

Semester 5

COOP-221 Employment Preplacement (3757)
ESET-313 Energy Auditing & Management
ESET-316 Microcontrollers
ESET-314 Motion Controls and Network
ESET-312 Power Generation 1
ESET-315 Refrigeration and HVAC
MT-309 Thermodynamics 1

COOP-222

Co-op Work Term 1 (3757)

COOP-331

Co-op Work Term 2 (3757)

COOP-332

Co-op Work Term 3 (3757)

Semester 6

ESET-325 Building Automation Systems
ESET-323 Distributed Generation and Transmission
ESET-327 Energy Systems Engineering
ESET-326 Final Project
ESET-322 Power Generation 2
ESET-324 Technical Elective

*Minimum C grade required for technologist graduation.

Note: Students will be placed in the appropriate English and math level based on skills assessment results.

¹ Professional Technology Year (Co-op Work Term)

Environmental Protection Technician

Program Code: 4201

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall

Campus: Morningside

enviro@centennialcollege.ca

416-289-5000, ext. 8123

Program Overview

Prepare for work in the constantly changing field of environmental technology. Practical training in the three foundation disciplines of biology, chemistry and civil engineering teaches you to understand and manage complex environmental problems. This unique combination of technical skills will greatly increase your career options.

Learn to use the tools and equipment needed in microbiology, ecological field sampling, analytical chemistry and surveying. Students gain laboratory skills in water quality testing and groundwater movement.

BENEFITS

PROGRAM HIGHLIGHTS

- Graduates are qualified to write the Ontario Ministry of the Environment Operator-in-Training exam
- Program graduates may be eligible to apply credits towards university degrees
- Common first semester for Biotechnology and Environmental Protection Technology programs provides time to choose your specialty
- Transfer credits/advanced standing may be awarded for previous science or engineering education
- Opportunities exist for participation in local conservation and restoration activities

Fast forward to the Fast-track options, pages 165 and 166.

CAREER OUTLOOK

Environmental companies and government organizations hire Centennial graduates for laboratory and field work in water and waste chemistry, microbiological and toxicity testing, soil collection and analysis, conservation, technical sales and materials handling.

CERTIFICATION

Graduates of the technician program can write the Ontario Ministry of the Environment Operator in Training (OIT) and Water Quality Analyst (WQA) exams. Graduates can apply to register with the Ontario Association of Certified Engineering Technicians and Technologist (OACETT).

CTAB NATIONALLY ACCREDITED PROGRAM

The Environmental Protection Technician program has met the national technology accreditation requirements established by the Canadian Council of Technicians and Technologists (CCTT) and, as such, has received national accreditation status by the Canadian Technology Accreditation Board (CTAB).

RECOGNITION AS A CERTIFIED ENGINEERING TECHNICIAN/TECHNOLOGIST

The Ontario Association of Certified Engineering Technicians and Technologists (OACETT) recognizes the Environmental Protection Technician program as meeting all the academic requirements for certification in the Technician category.



Drinking Water Operators

Entry-level course for Drinking Water Operators

Entry-level course for drinking water operators: Students who successfully complete this course will have met the requirements of the Ministry of the Environment's entry-level course for drinking water operators. This course is delivered by Centennial College in partnership with the Ministry of the Environment and the Walkerton Clean Water Centre.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U or equivalent, or skills assessment.
- Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment

PROGRAM OUTLINE

Semester 1

CH-101	Chemistry 1
COMM-160/161	College Communications 1
BI-111	Intro to Biological Systems
MATH-176	Mathematics 2
MATH-154	Microcomputer Applications for Technology A
GNED-126	Occupational Health & Safety

Semester 2

VS-120	Chemistry of Pollutants
COMM-170/171	College Communications 2
CH-122	Lab Instrumentation
BI-121	Microbiology
BI-122	Microbiology Techniques
MATH-186	Statistics for Applied Science

Semester 3

BI-230	Ecology
GNED-500	Global Citizenship: From Social Analysis to Social Action
CH-121	Organic Chemistry
PC-124	Physics for Environmental
PW-231	Soils and Groundwater
PW-232	Topographical Surveying

Semester 4

CH-207	Analytical Chemistry
BI-240	Applied Environmental Microbiology
PW-243	Engineering Equip & Processes
VS-242	Environmental Legislation & Regulations
GNED	General Education Elective
ENGL-250	Report Writing in a Technical Environment
PW-242	Water Quality Control

Note: Students will be placed in the appropriate English level based on skills assessment results. Students taking MATH-140 in semester 1 will have the opportunity to complete MATH-186 or equivalent between semesters 2 and 3.

Environmental Protection Technology

Program Code: 4202

4212 (co-op)

Program Length: 3 years/6 semesters (4202)

3 years/9 semesters (4212)

Credential: Ontario College

Advanced Diploma

Start: Fall

Campus: Morningside

enviro@centennialcollege.ca

416-289-5000, ext. 8123

Program Overview

This nationally accredited Environmental Protection Technology program prepares you for the constantly changing field of environmental technology. Practical training in the three foundation disciplines of biology, chemistry and civil engineering means that graduates can understand and manage complex environmental problems. This unique combination of technical skills will greatly increase your career options.

You will learn to function effectively with the tools and equipment used in microbiology, ecological field sampling, analytical chemistry, hazardous material management, surveying and municipal engineering, AutoCAD drawing and Geographic Information Systems (GIS) mapping.

Laboratory practice in water quality testing, groundwater movement, computer aided environmental audits and the chemistry of pollutants will give you the skills needed to analyze and remediate the urban environment.

CO-OP

This program offers an optional co-op component. Academically-qualified students can put classroom learning into practice, and make valuable contacts for future careers.

BENEFITS

PROGRAM HIGHLIGHTS

- Program graduates may be eligible to apply credits towards university degrees
- Opportunities exist for participation in local conservation and restoration activities
- After semester four courses are completed, students can write the Ontario Ministry of the Environment Operator-in-Training (OIT) and Water Quality Analyst (WQA) exams.
- Graduates can apply to register with the Ontario Association of Certified Engineering Technicians and Technologist (OACETT).

Entry-level course for Drinking Water Operators, see page 87.

CAREER OUTLOOK

Environmental companies and government organizations hire program graduates for laboratory and field work in water and waste chemistry, microbiological and toxicity testing, soil collection and analysis, conservation, technical sales and materials handling.

EDUCATIONAL PARTNERS

Students can earn an Environmental Protection Technology diploma from Centennial while working on an honours BSc degree from the University of Toronto, Scarborough (UTSC). For details go to www.utsct.utoronto.ca

CTAB NATIONALLY ACCREDITED PROGRAM

The Environmental Protection Technology program has met the national technology accreditation requirements established by the Canadian Council of Technicians and Technologists (CCTT) and, as such, has received national accreditation status by the Canadian Technology Accreditation Board (CTAB).

RECOGNITION AS A CERTIFIED ENGINEERING TECHNICIAN/TECHNOLOGIST



The Ontario Association of Certified Engineering Technicians and Technologists (OACETT) recognizes the Environmental Protection Technology program as meeting all the academic requirements for certification in the Technologist category.

AWARDS

The Environmental Protection Technology and Technology co-op programs are recipients of the President's Academic Program Recognition Award for outstanding student satisfaction.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U, or equivalent, or skills assessment.
- Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment

For information on the admission process, please see p. 18.

CO-OP REQUIREMENTS

- Minimum C grade in COMM-170/171, minimum 2.5 GPA and minimum 80 per cent of year 1 courses required for COOP-221
- Departmental academic standards for co-op eligibility also apply

PROGRAM OUTLINE

Semester 1

CH-101 Chemistry 1*
COMM-160/161 College Communications 1
BI-111 Intro to Biological Systems*
MATH-176 Mathematics 2
MATH-154 Microcomputer Applications for Technology A
GNED-126 Occupational Health & Safety

Semester 2

VS-120 Chemistry of Pollutants*
COMM-170/171 College Communications 2
CH-122 Lab Instrumentation*
BI-121 Microbiology*
BI-122 Microbiology Techniques*
MATH-186 Statistics for Applied Science

Semester 3

BI-230 Ecology*
GNED-500 Global Citizenship: From Social Analysis to Social Action
CH-121 Organic Chemistry*
PC-124 Physics for Environmental Soils and Groundwater*
PW-231 Topographical Surveying*

Semester 4

CH-207 Analytical Chemistry*
BI-240 Applied Environmental Microbiology*
COOP-221 Employment Preplacement (4212)
PW-243 Engineering Equip & Processes*
VS-242 Environmental Legislation & Regulations*

GNED ENGL-250

PW-242

COOP-222

Co-op Work Term 1 (4212)
(With the option to have Co-op Work Term 2 follow immediately after)

Semester 5

CH-315 Analytical Instrumentation
BI-310 Bioregionalism
PW-312 Civil Engineering Design & Construction Practices
CT-121 Computer Aided Drafting 1 – Civil
VS-353 Environmental Audits, Sampling & Data Management

Semester 6

AH-360 Applied Hydrology/Spills Mgmt.
BI-311 Applied Microbiological Analysis
VS-360 Environmental Project (Industry)
VS-361 Geographic Information System
CH-360 Hazardous Wastes & Modern Industrial Processes

COOP-331

Co-op Work Term 2 (4212)

COOP-332

Co-op Work Term 3 (4212)

*minimum C grade required for entry into semester 5

Note: Students will be placed in the appropriate English level based on skills assessment results. Students taking MATH-140 in semester 1 will have the opportunity to complete MATH-186 or equivalent between semesters 2 and 3.

Fast forward to the Fast-track options, pages 165 and 166.

Esthetician

Program Code: 9153

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall

Campus: Morningside

healthstudies@centennialcollege.ca

416-289-5303

Program Overview

Give yourself the competitive edge as a skilled esthetician in one of the most rapidly growing areas of the health and wellness service industry. Centennial's Esthetician program will provide you with the knowledge and skills for spa applications, skin care and business operations. Graduates from this program are able to provide the entire range of professional services offered in today's spas and the skills required to successfully run a private business. Placement in both working clinics and established businesses will allow you to learn in an atmosphere that builds the confidence and skills to enter this challenging and exciting career.

As a Centennial student, you will have the advantage of developing your skills by using brand new esthetician lab facilities and cutting-edge equipment that are common in today's wellness and medical spas. You will study with qualified instructors who have many years of experience in the industry and explore a comprehensive curriculum that incorporates anatomy, physiology, practical applications, product knowledge, sales techniques and business practice.

Centennial Esthetician students benefit not only from graduating from the highly respected program, but more directly from invaluable hands-on practical experience in the school's student clinic (which is supervised by qualified faculty) and field placements in the best spas in the city.

At A Glance

- You will be taught knowledge of diverse human physiology, pathology and histology
- You will learn the proper use of specialized equipment and products, as well as how to apply knowledge of business operations, exceptional customer service and diverse population needs to daily operations of an esthetic business in a controlled salon or spa environment
- Graduates are prepared to provide safe and effective client-centered care of specialized body and skin treatments

BENEFITS

PROGRAM HIGHLIGHTS

Graduates have the ability to:

- Perform a variety of specialized body and skin care treatments following correct procedures and precautions, and supporting client needs (including but not limited to facials, manicures, pedicures, hair removal and make-up applications)
- Use a range of specialized equipment and products, in compliance with established national, provincial, industry and other related standards, regulations, policies and procedures
- Apply relevant knowledge of anatomy, physiology and histology to the provision of specialized esthetic treatments and services
- Adhere to health, safety, sanitation and infection prevention control guidelines, according to current legislation and national, provincial, municipal and industry standards and regulations
- Identify business skills and activities required for the successful establishment and operation of a small esthetic business in a salon or spa environment
- Select and recommend the use of esthetic products and product ingredients to clients, taking into account health status and identified needs
- Establish and maintain professional relationships in adherence to standards and ethics associated with the profession
- Develop customer service strategies that meet and adapt to individual needs and expectations in accordance with professional standards and ethics
- Determine professional development strategies that lead to the enhancement of work performance and career opportunities and keep pace with industry change

CAREER OUTLOOK

A wide range of careers exist for the professional esthetician. Graduates of the Esthetician program will find employment in spas and salons, or in health clinics in conjunction with dermatologists, plastic surgeons and other healthcare providers. Opportunities also exist on cruise ships and spas overseas. Some graduates may choose to work as product representatives and skin care consultants. Many estheticians choose to be self employed in their own businesses.

ADMISSION REQUIREMENTS

Eligibility

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS:

- English Grade 12 C or U or equivalent, or skills assessment.

FIELD PLACEMENT REQUIREMENTS:

- Obtain an annual clear police check with vulnerable sector screening
- Provide proof of immunization requirements; a standard form will be issued by the program coordinator following confirmation of an offer of admission to the program
- Successfully complete and annually renew a recognized course in CPR (Healthcare provider level)
- Successfully complete a recognized course in standard first aid

PROGRAM OUTLINE

Semester 1

COMM-160/161	College Communications 1
GNE-160	Customer Service: A Modern Approach
ESTH-113	Manicures and Pedicures*
ESTH-112	Professional Relationships 1*
ESTH-111	Skin Care Practices*
ESTH-110	Skin Care Theory 1*
ESTH-114	Spa Health and Safety*

Semester 2

COMM-170/171	College Communications 2
ESTH-126	Esthetic Clinic 1*
ESTH-128	Introduction to Business Practices*
ESTH-125	Product Chemistry and Advanced Ingredients*
ESTH-127	Skin Care Theory and Practices 2*
ESTH-123	Waxing and Hair Removal*

Semester 3

ESTH-216	Esthetic Clinic 2*
GNE-500	General Education Elective
	Global Citizenship: From Social Analysis to Social Action
ESTH-215	Introduction to Wellness*
ESTH-201	Skin Care Theory and Practice 3*
ESTH-202	Spa Body Anatomy and Physiology*

Semester 4

ESTH-226	Esthetic Clinic 3*
ESTH-227	Esthetician Practicum*
ESTH-223	Makeup*
ESTH-222	Professional Relationships 3*
ESTH-229	Skin Care Practices 4*
ESTH-228	Skin Care Theory 4: Advanced Clinical Skin Care*
ESTH-224	Spa Business*

*minimum C grade required.

Financial and Client Services

Program Code: 2933 **NEW**
Program Length: 1 year/3 semesters
Credential: Ontario College Certificate
Start: Fall, Winter,
Campus: Progress
business@centennialcollege.ca
416-289-5000, ext. 2280

Program Overview

Everyone's financial goals are different, but whether someone is saving for their first car, a child's education or planning early retirement, it's important to have an advisor who understands their financial goals and can help them fulfill them. As the financial services industry evolves, employers recognize that merging a financial background with effective marketing strategies adds value to their services and deepens client relationships.

In just three semesters, Centennial College's Financial and Client Services Certificate program prepares graduates for the scope of the industry's demands to assess a client's financial position and interpret their future needs.

The program's curriculum intricately balances a traditional financial foundation with creative problem solving, effective marketing skills and superior customer relations strategies. Graduates are provided with the best of both worlds, as this career path immerses them within financial services, but still allows them to remain active and work directly with clients. The Financial and Client Services program, prepares graduates for work in the field by arranging a 13-week field placement, for each student, at a financial institution in the final semester. The field placement prepares graduates with key industry experience, and networking opportunities to enhance their resumé prior to seeking full-time employment.

BENEFITS

PROGRAM HIGHLIGHTS

- A field placement is arranged for students with a well-recognized financial institution.
- Students participate in the field placement component two days a week for 13 weeks in their third semester.
- Hands-on learning in a Contact Centre Lab, prepares graduates to transfer their communication, customer service, keyboarding and financial skills to contact centre operations – one of the fastest growing industries. Students will also build upon these skills through a live out-bound community project.
- Graduates of the Financial and Client Services program have the opportunity to transfer into the second semester of Centennial's Business Finance program (2483), where they will gain in-depth financial knowledge and a college diploma in just over one year.
- Training using the full Microsoft suite including: Word™, Excel™, PowerPoint™, Access™ and Outlook™.
- An understanding of the fundamentals of marketing and sales, with an emphasis on telemarketing, and the relationship between customer service and consumer behavior.
- Strong foundation of accounting and financial concepts provided.

At A Glance

Graduates of this program can look forward to finding fulfilling careers in the following industries:

- Banks/Trust Companies/Credit Unions/Financial Planning Firms
- Mutual Fund Companies
- Securities/Brokerages
- Accounting Firms

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older).

ACADEMIC REQUIREMENTS:

- English Grade 12 C or U or equivalent, or skills assessment.
- Math Grade 11 C, M or U, or Grade 12 C or U or equivalent or skills assessment

PROGRAM OUTLINE

Semester 1

ACCT-230	Canadian Financial Services
COMM-160/161	College Communications 1
ACCT-112	Financial Accounting 1
GNED	General Education Elective
MATH-106	Mathematics of Finance
BUSN-110	Strategies for Business Success

Semester 2

FINA-110	Canadian Investment Funds Course
COMM-170/171	College Communications 2
CCP-104	Contact Centre Environment
CCP-102	Customer Service & Sales
ACCT-221	Financial Accounting 2
MKTG-116	Principles of Marketing

Semester 3

GNED	General Education Elective
FINA-336	Personal Credit
MKTG-223	Professional Selling
CCP-103	Soft Skills Development
CCP-105	Work Placement – Financial & Client Services

Note: Students will be placed in the appropriate English and math levels based on skills assessment results. This may lead to additional courses and require extra time and fees.

Financial Services Fundamentals

Program Code: 2473

Program Length: 8 months/2 semesters

Credential: Ontario College Certificate

Start: Fall, Winter, Summer

Campus: Progress

business@centennialcollege.ca

416-289-5000, ext. 2280

Program Overview

This program is specifically designed for individuals who wish to pursue an exciting career in the continuously expanding financial services environment. Continued growth in the financial services sector provides exciting employment opportunities for qualified individuals.

Rationalization and consolidation within the industry have reduced the number of traditional entry-level jobs, such as bank tellers. However, other factors have countered this by creating more stimulating and higher-skilled positions. These factors include a more marketing-focused industry, increased competition, demographics, advances in technology and a global financial environment.

BENEFITS

PROGRAM HIGHLIGHTS

- The courses are delivered by experienced faculty members who are professionals from the industry
- This one-year program includes a course leading to a license to sell mutual funds. (This will incur costs in addition to regular tuition)
- An additional benefit is the opportunity for graduates to continue their education into the two-year program where in one additional year they can enhance their qualifications. This enables them to pursue lucrative careers in the broader financial services industry

CAREER OUTLOOK

Mutual funds is one particular area of significant growth in the financial services sector. As the baby boom generation readies itself for retirement, investments in mutual funds have grown correspondingly. Professionals who consult upon and sell mutual funds must be licensed. Accordingly, we have developed a one-year program that includes a course leading to a license to sell mutual funds. This license, coupled with courses in marketing, sales, business and communication, equip our graduates with the qualifications and skills sought by employers in the industry.

At A Glance

Graduates are prepared to pursue careers at:

- Banks
- Credit unions
- Financial planning organizations
- Investment fund companies

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older).

ACADEMIC REQUIREMENTS:

- English Grade 12 C or U or equivalent, or skills assessment.
- Math Grade 11 C, M or U, or Grade 12 C or U or equivalent or skills assessment

PROGRAM OUTLINE

Semester 1

ACCT-112	Financial Accounting 1
COMM-160/161	College Communications 1
FINA-336	Personal Credit
MATH-106	Mathematics of Finance
MKTG-116	Principles of Marketing

Semester 2

ACCT-230	Canadian Financial Services
FINA-110	Canadian Investment Funds Course
COMM-170/171	College Communications 2
ACCT-221	Financial Accounting 2
MKTG-223	Professional Selling

Note: Students will be placed in the appropriate English and math levels based on skills assessment results. This may lead to additional courses and require extra time and fees.

Fine Arts Studio

Program Code: 6421

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall

Campus: The Centre for

Creative Communications

thecentre@centennialcollege.ca

416-289-5000, ext. 5100

Program Overview

Fine Arts Studio is a challenging, intimate and atelier-style (immersion-based) program that focuses on drawing, painting and sculpting media. In this unique program you'll be inspired by the masters, but you'll also find your own voice.

In this program you will:

- Develop advanced skills and work independently both in and out of the studio environment and nurture a lifetime of growth as a professional visual artist and storyteller
- Have a progressive learning experience led by a collaborative team of teachers who share a commitment to the central philosophy of excellence through meaningful skills development
- Be encouraged to develop personal directions and approaches to build your own unique voice and style in visual storytelling
- Graduates of this program find inspired new careers paths in the art world as exhibiting artists or in the visual art industries including animation, illustration and design

Drawing skills are at the heart of, and essential to, success in all the visual art industries.

At A Glance

Diverse opportunities exist for graduates of this program. They range from careers as exhibiting studio artists to careers in any of the visual art industries that require advanced levels of fine art skills, such as:

- Illustration
- Classical and digital animation
- Gaming
- Graphic design
- Interior design
- Industrial design

BENEFITS

PROGRAM HIGHLIGHTS

What makes Centennial different from other schools?

- In its two-year diploma program, Centennial emphasizes the figure and lots of studio time, unlike some other institutions which are more academic
- The campus is central. It is located at The Centre for Creative Communications on Carlaw Avenue, north of Danforth Avenue and west of Pape Avenue
- Classes are relatively small and are held in two large state-of-the-art studios and other classrooms
- Faculty members are all working professionals with a string of credits
- The Centre fosters a unique atmosphere because there are other creative students in graphic design, advertising, journalism, publishing and animation
- Development of personal artistic visions, based on sound technique is encouraged through our culminating thesis course
- Courses on contemporary issues, business strategies and digital art lay weight on the artist's ability to function in the real world
- Special art-relevant lectures, seminars and excursions are offered throughout the school year
- Mural seminars and an illustration class to broaden students' job skills are available
- In both first and second years, students are exposed to and experience exhibitions in professional art galleries

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years of age or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U or equivalent, or skills assessment

ADDITIONAL REQUIREMENTS

- Attend a mandatory program admission session
- Submit a portfolio that will consist of no less than four and no more than 15 pieces. Examples from each of the following items are recommended:
 - » Figure drawings: A selection from one to 10 figure drawings can count as one portfolio piece
 - » Colour work: Colour work may be abstract, figurative or objective
 - » Perspective: The portfolio should demonstrate an ability to apply basic principles of linear perspective in free-hand drawing and/or painting, and could consist of examples such as furniture, interiors or cityscapes

- » Sketchbooks: Idea books and journals are included as sketchbooks

The following are optional:

- » Sculpture and 3D work
- » Printmaking
- » Photography
- » Creative writing
- » Crafts
- » Experimental work such as documented performance art, documented installations, computer generated artwork, videos, etc.

Portfolios can be presented in original form or as reproductions. All original work must be presented without frames. Reproductions can be in the form of prints, photocopies, slides and CDs.

Note: Ask us about distance testing.

NOTE

1. It is recommended that students applying to the Fine Arts Studio program have a certificate from Centennial's Art and Design Foundation Studies program or its equivalent, or equivalent work experience

PROGRAM OUTLINE

Semester 1

FAS-104	3D Figure Modelling I
COMM-160/161	College Communications 1
FAS-102	Drawing + Composition
FAS-101	Figure Drawing 1
GNE-174	History of World Art from the Prehistoric to 17th Century
FAS-103	Painting Techniques

Semester 2

FAS-124	3D Figure Modeling II
COMM-170/171	College Communications 2
FAS-126	Digital Art
FAS-123	Drawing + Painting I
FAS-121	Figure Drawing II
FAS-122	Figure Painting I
GNE-500	Global Citizenship: From Social Analysis to Social Action
FAS-125	History of World Art from 18th C – Postmodernism

Semester 3

FAS-224	Contemporary Issues in Art
FAS-203	Drawing + Painting II
FAS-201	Figure Drawing III
FAS-202	Figure Painting II
GNE	General Education Elective
GDM-221	Illustration Workshop

Semester 4

FAS-204	Business Strategies
FAS-223	Drawing and Painting Thesis
FAS-221	Figure Drawing IV
FAS-222	Figure Painting III
FAS-225	Portfolio Presentation

Note: Students will be placed in the appropriate English level based on skills assessment results.

Fitness and Health Promotion

Program Code: 9320 **NEW**
Program Length: 2 years/4 semesters
Credential: Ontario College Diploma
Start: Fall
Campus: Progress
healthstudies@centennialcollege.ca
416-289-5303

Program Overview

Centennial's Fitness and Health Promotion Program prepares graduates for a fulfilling career assisting individuals and groups to reach their highest potential for overall wellbeing. Through hands-on practical learning in laboratory and placement settings and a comprehensive academic grounding, graduates develop the necessary skills to prepare for employment in community, corporate, municipal and retail settings in a wide array of positions.

This fulltime, two year, post secondary Fitness and Health Promotion Program allows graduates to respond to the ever growing public demand for health and wellness counseling through expert training in anatomy and physiology, fitness assessment, leadership skills, injury management, nutrition, fitness marketing, health promotion, computer skills and cross cultural awareness.

Students will have the opportunity to gain the skills necessary to become a certified personal trainer according to the CSEPT-PT requirements and learn course material related to the canfitpro nutrition and wellness certification.

BENEFITS

PROGRAM HIGHLIGHTS

- Using Centennial College's newly constructed Athletic and Wellness Center located at Progress Campus, students will have hands-on learning opportunities.
- Opportunity for Inter-professional student liaisons will be provided between Fitness and Health Promotion students and other programs (i.e Police Foundations, Pre-service Fire and Paramedic students) at Centennial College to assist in the attainment of their fitness assessment goals
- Industry partnerships that provide supervised field placement opportunities in the fitness industry
- Opportunity for eligibility to earn nationally recognized certifications
- Expert faculty to nurture student knowledge and skill development
- A strong focus on mental health as an essential part of a holistic approach to well being.

CAREER OUTLOOK

As part of an overall plan for wellness, health and fitness, graduates of the Fitness and Health Promotion Program can assist individuals to make healthy lifestyle choices that will reduce or prevent the occurrence of acute and chronic diseases by providing professional fitness assessments, recommendations for health and fitness exercise regimes and strategies to meet their health and wellness goals.

Examples of positions for graduates include:

- Fitness instructor
- Personal trainer
- Fitness consultant
- Wellness/Fitness Program Developer

Sectors where graduates may secure employment:

- Community
- Corporate Fitness
- Municipal Recreation
- Retail Fitness
- Hospital
- Business/Entrepreneur

PROGRAM LEARNING OUTCOMES

Graduates will demonstrate the ability to:

- Assess the fitness level, health issues and overall well-being of individual clients based on various assessment tools and strategies
- Apply effective practices to the design, implementation and management of fitness and lifestyle programs and events for individual clients intended to meet health, fitness and lifestyle goals
- Communicate effectively with clients, both orally and in writing, for the purposes of individual fitness counseling, workshop presentations, group facilitation
- Work with clients in their adoption of recommended health and fitness strategies aimed at meeting personal fitness goals, improving health status, and enhancing general well-being
- Analyze current research trends and issues relevant to the fitness and wellness fields in order to make informed recommendations of health and fitness strategies/programs for individuals and groups
- Provide comprehensive training and evaluation of fitness and wellness programs to enable individual clients and groups to reach and maintain optimal well-being
- Collaborate and partner with various groups, organizations and networks within the community to support fitness and health promotion activities and initiatives
- Assist in the development of business plans for health and fitness programs, activities and facilities
- Maintain personal goals and strategies for ongoing professional development and growth including working within the legal and ethical standards of the fitness profession
- Develop and implement risk management strategies for health and fitness programs, activities and facilities

- Apply effective leadership skills to work inter-professionally with individual clients, groups, and staff in health and wellness fitness programs activities
- Develop fitness, health and wellness programs to meet the needs and goals for diverse populations.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- Grade 12 English (C or U) or skills assessment, or equivalent
- At least one of the following senior sciences: Grade 11 Biology or Physics (C) or Grade 12 Chemistry (C), or Grade 12 (U) Exercise Science

FIELD PLACEMENT REQUIREMENTS

- Obtain an annual clear police check with vulnerable sector screening
- Successfully complete and annually renew a recognized course in CPR (health care provider level)
- Successful completion of recognized course in standard first aid

PROGRAM OUTLINE

Semester 1

GNEP-137	A Wellness Approach to Stress Management
FTHP-112	Anatomy/Physiology
COMM-160/161	College Communications 1
FTHP-114	Fitness Assessment 1
FTHP-110	Health and Wellness Concepts
FTHP-116	Health Promotion Across Cultures/Lifespans

Semester 2

FTHP-218	Biomechanics
COMM-170/171	College Communications 2
FTHP-212	Exercise Physiology
GNEP-500	Global Citizenship: From Social Analysis to Social Action
FTHP-216	Injury Assessment and Management
FTHP-210	Leadership, Counseling, Communications
FTHP-214	Personal Training 1

Semester 3

FTHP-314	Fitness Assessment 2
FTHP-310	Fitness Marketing/Entrepreneurship
GNEP	General Education Elective
FTHP-316	Group Exercise Leadership 1
FTHP-318	Nutrition
FTHP-320	On Campus Field Placement
FTHP-312	Personal Training 2

Semester 4

FTHP-414	Exercise Prescription
FTHP-410	Fitness and Wellness Program Management
FTHP-416	Group Exercise Leadership 2
FTHP-412	Health Promotion and Behaviour Change
FTHP-420	Industry Field Placement

Food and Nutrition Management

Program Code: 1607

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall, Winter

Campus: Morningside

healthstudies@centennialcollege.ca

416-289-5303

Program Overview

Centennial Food and Nutrition Management graduates are equipped to pursue challenging careers as managers in the dynamic and growing food service industry. With knowledge of nutrition and food service, business skills and human relations skills, they are prepared to work in the nutrition department of a hospital, long-term care facility, or other food or nutrition-related industry.

The program has received the President's Academic Program Recognition Award for Preparation for Job Market, Student Satisfaction, Graduate Satisfaction, Employer Satisfaction and Quality of The Learning Experience.

This is the only two-year post-secondary Food and Nutrition Management program in the Greater Toronto Area. Accredited by the Canadian Society of Nutrition Management (CSNM), graduates are eligible for membership in the CSNM and the Ontario Society of Nutrition Management. CSNM membership is a requirement of the Ontario's Ministry of Health and Long Term Care to work in a long-term care facility and most acute care facilities.

GLOBAL CITIZENSHIP AND EQUITY PORTFOLIO

Students in this program will develop a portfolio documenting their engagement with the College's signature global citizenship and equity competencies. For more information on Global Citizenship and Equity, the GC&E Portfolio and the supports available to you, please see page i.

BENEFITS

PROGRAM HIGHLIGHTS

Graduates have demonstrated the ability to:

- Practice in accordance with the code of ethics of the appropriate professional association
- Apply a knowledge of normal and clinical nutrition
- Participate in the provision of nutritional care in a variety of settings, including institutional and community environments
- Participate in procurement of goods and services and master menu planning
- Supervise the preparation of food products and special feedings following standardized recipes and production procedures

- Supervise food distribution according to established standards
- Supervise operational procedures to meet established standards for safety and sanitation according to established policy, procedures and regulations

CAREER OUTLOOK

The primary focus of the program is to prepare you for career opportunities in healthcare. As long-term care facilities expand and hospitals change their focus, there is a need for qualified food service managers.

Employers include hospitals, seniors' residences, nursing homes and extended care facilities. Other opportunities include high-volume catering services, industrial cafeterias, airline food services, food manufacturers and community agencies.

Examples of positions held by graduates include food and nutrition manager, food service coordinator, dietary manager and quality control technician.

Organizations hiring program graduates include:

- Aramark
- Sodexo
- Community Life Inc.
- Complete Purchasing
- Compass
- Rouge Valley Health System
- Extencicare
- Sunnybrook Health Science Centre
- Leisureworld
- Mt. Sinai Hospital
- Providence Healthcare Centre
- University Health Network.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U (minimum grade required) or equivalent, or skills assessment.
- Mathematics Grade 11M or U or Grade 12C or U or equivalent, or equivalent

NOTES

1. This program is considered "highly competitive" and fills early. To be considered for the program, you should apply prior to the Ontario Colleges equal consideration date of February 1 and submit transcripts or complete skills assessments as early as possible.
2. For applicants who are currently attending high school in Ontario: please advise your school guidance department that you have applied to an Ontario College. Your midterm and final grades will be transmitted automatically to the college.

FIELD PLACEMENT REQUIREMENTS

- Obtain an annual clear police check with vulnerable sector screening
- Provide proof of immunization requirements; a standard form will be issued by the program coordinator following confirmation of an offer of admission to the program
- Successfully complete and annually renew a recognized course in CPR (health care provider level)
- Successful completion of a recognized course in standard first aid
- Mask fit testing will be provided by Centennial College (shaving of portion of face may be required to meet safety standards)

All of the above requirements must be in effect for the duration of each placement.

PROGRAM OUTLINE

Semester 1

COMM-160/161	College Communications 1
FNMT-112	Food Properties Analysis
or FNMT-105	Kitchen Production
FNMT-101	Introduction to Computing
FNMT-108	Introduction to Food Services
FNMT-117	Mathematics for Food Service Management
	Nutrition 1
FNMT-109	Perspectives on Human Aging
GNED-171	Principles of Sanitation, Safety and Hygiene*
FNMT-100	

Semester 2

COMM-170/171	College Communications 2
FNMT-201	Communications and Interprofessional Approaches in Health Care and Food Services
	Food Properties Analysis
FNMT-112	Kitchen Production
or FNMT-105	Food Service Accounting
FNMT-208	Global Citizenship: From Social Analysis to Social Action
GNED-500	Nutrition 2*
	Purchasing for the Food Services Industry
FNMT-110	
FNMT-115	

Semester 3

FNMT-207	Facilities Planning and Design
FNMT-223	Food Services Systems Management*
GNED	General Education Elective
FNMT-210	Marketing and Merchandising for Food Services Operations
	Medical Nutrition Therapy*
FNMT-206	Organizational Behaviour in Food Services*
FNMT-202	Supervision Practices
FNMT-211	

Semester 4

FNMT-217	Field Placement**
FNMT-221	Financial Management*
FNMT-216	Health Care Menu Planning*
FNMT-203	Human Resources Management in Food Services*
	Labour Cost Control
FNMT-215	Professional Practice Seminar
FNMT-219	Recipe Development and Costing
FNMT-213	

* Minimum C grade required

+ Permission to take FNMT-217 is dependent upon successful completion of all other courses. CPR Health Care Provider (HCP)-Level C, Respiratory Mask Fit Test, Immunization Review Form and Influenza Immunization. The dates must be valid while on placement.

Note: Students will be placed in the appropriate English level based on skills assessment results.

Food Science Technology

Program Code: 3620 **NEW**
Program Length: 3 years/6 semesters
Credential: Ontario College
Advanced Diploma
Start: Fall
Campus: Morningside
fst@centennialcollege.ca
416-289-5000, ext. 8123

Program Overview

The Food Science Technology program integrates and applies knowledge within the disciplines of chemistry, engineering, biology, and nutrition to preserve, process, package, and distribute foods that are healthy, affordable, desirable, and safe to eat. The program will prepare students for food science careers in areas including quality control/assurance, food plant management, product development, food industry regulation and inspection, operations and maintenance of automated equipment.

BENEFITS

PROGRAM HIGHLIGHTS

- comprehensive laboratory training, from foundational to professional skills
- practical, hands on experience is acquired with a wide range of instrumentation
- common first year with Biotechnology and Environmental Protection diploma programs provides time to choose your specialty projects and enhance teamwork skills

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U, or equivalent, or skills assessment.
- Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment

PROGRAM OUTLINE

Semester 1

CH-101 Chemistry 1*
COMM-160/161 College Communications 1
BI-111 Intro to Biological Systems*
MATH-176 Mathematics 2
MATH-154 Microcomputer Applications for
Technology A
GNED-126 Occupational Health & Safety

Semester 2

COMM-170/171 College Communications 2
CH-125 Inorganic Chemistry for Microbiology
CH-122 Lab Instrumentation*
BI-121 Microbiology*
BI-122 Microbiology Techniques*
MATH-186 Statistics for Applied Science

Semester 3

BI-208 Food Microbiology*
GNED-500 Global Citizenship: From Social
Analysis to Social Action
FST-211 Introduction to Food Science
CH-121 Organic Chemistry*
PHYS-210 Physics for Food Science

Semester 4

CH-222 Biochemistry 1*
CH-203 Food Chemistry*
FST-222 Food Processing & Technology I
FST-221 Food Science Project I
FST-223 Quality Assurance I
ENGL-250 Report Writing in a Technical
Environment

Semester 5

FST-314 Food Analysis
FST-313 Food Biotechnology
FST-311 Food Processing & Technology II
FST-315 Food Regulations
GNED General Education Elective
FST-312 Quality Assurance II

Semester 6

BI-304 Environmental Microbiology
FST-323 Food Product Development
FST-321 Food Science Project II
FST-324 HACCP & GMPs
FST-322 Plant Sanitation

*Minimum C grade required for entry into Semester 5.

Food Service Worker

Program Code: 1620

Program Length: 1 semester/15 weeks

Credential: Ontario College Certificate

Start: Fall, Winter

Campus: Morningside

healthstudies@centennialcollege.ca

416-289-5303

Program Overview

The Food Service Worker program is a one semester inclusive full time program which provides you with the knowledge and skills to be an effective member of an interprofessional health care team. It is scheduled for three days per week to accommodate students' existing commitments and work schedules. The program covers the practical aspects of quantity food preparation, meal service, basic therapeutic diets and nutrition, proper sanitation practices, effective communication and quality customer service. This program incorporates classroom lectures and concludes with an arranged work experience field placement in a health care facility, providing you with hands-on experience which allows you to apply classroom learning in a true work situation.

Developed to meet the Ministry of Health and Long-Term Care regulations and with input from professional organizations and health care employers, you benefit from a learning experience which meets current government standards and employer requirements. Students in the certificate program may use the learning and skills to transfer into the two year Food and Nutrition Management program Diploma if desired.

Graduates of this program also obtain the TrainCan Basics.fst Food Safety Certificate which is accepted by Toronto Public Health as an equivalent to their Food Handlers Certificate.

TESTIMONIAL

"I learned an enormous amount about different diets and health issues concerning health care food service, as well as kitchen skills and different cooking techniques. This is an excellent program to take if you would like to work in the health care food service industry."

Catrina Evans – Former student

BENEFITS

PROGRAM HIGHLIGHTS

- Communicate the role of nutrition and apply the principles of human nutrition to food production in the health care food service environment
- Discuss the standards and principles of diet therapy relating to a variety of illnesses and diseases and apply these principles to the assembly of therapeutic meals in the health care food service environment
- Provide a safe and healthy dietary environment, including food that is free from bacteria and other harmful contaminants by adhering to government and departmental regulations relating to food safety, and injury and hazard prevention strategies
- Contribute to the success and image of the healthcare dietary area by applying interpersonal skills that enhance employee performance
- Function within the food service worker's scope of practice to support the goals of health care food service
- Develop and maintain ongoing personal, professional development strategies
- Carry out cost control techniques in the preparation of foodservice in the healthcare environment
- Apply food and bake theories to all aspects of food preparation in health care
- Implement cooking principles and techniques in the preparation of large quantities of various foods for the healthcare environment
- Apply knowledge of healthcare food service systems and adhere to departmental and industry work standards

DISTINCTIVE BENEFITS FOR CENTENNIAL STUDENTS

- Arranged field placement
- Food Safety Certification
- One semester (15-week) inclusive
- Workplace Hazardous Materials Information System (WHMIS) training
- Practical food lab

At A Glance

- Courses deal with the practical aspects of quantity food preparation, service, nutrition and sanitation practices, customer service and communications
- Program concludes with a field placement in a healthcare facility
- Completion of immunization by physician

CAREER OUTLOOK

Graduates of the program may seek employment as a Food Service Worker in an institutional and/or health care food service settings such as long term care, retirement homes, acute care, and/or industrial cafeterias. This certificate is a requirement to work as a dietary aide in long term care as well as an asset to work in the food service industry. Potential positions exist in nursing homes, homes for the aged, retirement homes, special care homes, hospitals, residential hospice, residential group home facilities and other integrated care facilities.

Potential positions exist in:

- Long-term care: Extendicare, Specialty Care
- Retirement: Specialty Care, Oakwood
- Acute Care: Rouge Valley Health Care Network, Lakeridge Health Network
- Food Service Contractors: Sodexho, Aramark, Compass Group

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U (minimum grade required) or equivalent, or skills assessment.

FIELD PLACEMENT REQUIREMENTS

- Obtain an annual clear police check with vulnerable sector screening
- Provide proof of immunization requirements; a standard form will be issued by the program coordinator following confirmation of an offer of admission to the program
- Attend mask fit testing that is provided by Centennial College (shaving of portion of face maybe required to meet safety standards)

PROGRAM OUTLINE

Semester 1

FSWR-106	Food Service Worker Placement
FSWR-105	Kitchen Equipment and Food Preparation
FSWR-104	Nutrition in Health Care
FSWR-101	Role of Food Service Worker
FSWR-103	Safety and Sanitation
FSWR-102	Workplace Communications

Game Art and Design

Program Code: 6422

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall

Campus: The Centre for

Creative Communications

thecentre@centennialcollege.ca

416-289-5000, ext. 5100

Program Overview

Game Art and Design is a unique post-secondary diploma program preparing you for a career of imagination, innovative design and storytelling in the dynamic, ever-expanding and intensely creative interactive game industry in 16 consecutive months.

Developed by industry professionals and instructors – with a forward-thinking approach towards the next wave of interactive games.

You'll receive intensive hands-on training and learn how to build 2D and 3D art assets for games, develop game environment and characters and express your one-of-a-kind creativity.

BENEFITS

PROGRAM HIGHLIGHTS

- The program is taught by industry professionals who are as passionate about gaming as you are
- Small class sizes allow you to get several hours of one-on-one help with each project
- A hands-on approach to learning in labs simulates a real-world production setting
- You'll receive intensive hands-on training and learn how to build 2D and 3D art assets for games, develop game environments and characters and express your one-of-a-kind creativity.
- Valuable experience and industry contacts are gained through studio visits, industry events and field placement
- The field placement is a three-way partnership:
 - » As a Game Art and Design program student and a potential candidate for placement work, you are expected to send your portfolio to the company of your choice to show your work. This is part of the professional experience, and is standard protocol for those seeking internships and or jobs.
 - » You are expected to be proactive and seek out companies yourself and relay your information to the coordinator, who will assist you in obtaining a placement.

REGISTRATION/FEES REQUIREMENTS

- You are responsible for registering and paying course fees before commencing field placement.
- Any additional fees you incur during Placement (i.e. travel, parking, etc.) are your responsibility.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U (minimum grade required) or equivalent, or skills assessment

At A Glance

Career opportunities include:

- Character modeler
- Character animator
- Level designer
- Environment and effects artist
- Texture artist
- Game concept artist
- And more.

ADDITIONAL REQUIREMENTS

- Attend a mandatory program admission session
- Submit a portfolio of work
 - » A portfolio is a demonstration of your creativity and ability to communicate visually. Portfolio pieces may include: life drawings, sketches, paintings, sculptures or digitally produced artwork.
 - » Select 10 to 15 pieces of your best work to submit. Presentation should be neat and simple, not distracting from the work itself.

Note: Ask us about distance testing.

NOTE

1. Preference will be given to applicants who have traditional life drawing skills and demonstrate familiarity with one or more graphics applications such as Photoshop, ZBrush, 3DS Max or Maya.

FIELD PLACEMENT REQUIREMENTS

- Students work closely with a placement coordinator to obtain their own field placement

PROGRAM OUTLINE

Semester 1

GAME-113	3D Modelling and Texturing 1*
GAME-110	Anatomy and Construction*
COMM-160/161	College Communications 1
GAME-112	Composition and Colour*
GAME-114	Game Theory*
CO-109	Life Drawing 1
GAME-111	Perspective*
GNE-173	Social History of Design

Semester 2

GAME-213	3D Modelling and Texturing 2*
GAME-210	Architectural Design 1*
GAME-211	Character Design 1*
COMM-170/171	College Communications 2
GAME-212	Digital Painting 1*
GNE-500	Global Citizenship: From Social Analysis to Social Action
GAME-215	Life Drawing 2*
GAME-214	Unreal Editor*

Semester 3

GAME-310	Architectural Design 2*
GAME-311	Character Design 2*
GAME-312	Digital Painting 2*
GNE	General Education Elective
CO-428	Integrated Media
GAME-315	Life Drawing 3*
GAME-314	Lighting*
GAME-313	UE3 Material Editing

Semester 4

GAME-412	Compositing*
GAME-414	Field Placement*
GAME-411	Final Project Studio*
GAME-410	Post Effects and Material Editing*

**minimum C grade required.*

Note: Students will be placed in the appropriate English level based on skills assessment results.

Graphic Design – Media

Program Code: 6420

Program Length: 3 years/6 semesters

Credential: Ontario College

Advanced Diploma

Start: Fall

Campus: The Centre for Creative Communications

thecentre@centennialcollege.ca

416-289-5000, ext. 5100

Program Overview

Design is powerful. It enables you to explore the limits of possibility and develop new ideas in increasingly more inventive, interconnected and imaginative ways than ever before. The power of design is all around us in all that we see, hear, feel and do. It's about 360-degree thinking. The Graphic Design – Media program prepares you for a new career in today's innovative and multifaceted commercial design industry. In this program you will:

- Develop your visual design skills for print, and electronic media, emphasizing design fundamentals, creative problem solving skills and the ability to deliver effective communication solutions for corporate clients including motion design
- Emerge with multidisciplinary creative skills for today's diverse and demanding industry. As the contemporary commercial design world becomes more integrated, competitive and collaborative, you will be ready to thrive in a new world of mobile devices
- Work directly with internal and external clients on projects, simulating the workplace demands of the industry in a practical and hands-on approach.

TESTIMONIAL

"Graphic Design – Media program covers all the disciplines important for a successful career in graphic design."

Steve Lewis, VP, Inferno Artist, SPIN Productions

At A Glance

Our graduates launch careers with:

- Design and advertising companies
- Magazine design firms
- Packaging design studios
- Marketing and communications agencies
- Publishing companies
- Newspaper departments
- TV production facilities

BENEFITS

PROGRAM HIGHLIGHTS

The combination of multidisciplinary design skills and practical experience will set graduates apart from the competition. Centennial graduates will be more flexible and their design solutions will be more effective than solutions of those without this experience.

Centennial College is formally recognized by the Association of Registered Graphic Designers of Ontario (RGD Ontario), which represents more than 3,000 graphic designers, managers, educators and students across Ontario.

The Graphic Design – Media program will develop your abilities to:

- Integrate knowledge of visual graphics with creative communications strategies for print publications, packaging and illustration
- Develop and implement solutions to problems encountered in all phases of the graphic design process
- Create visual communications through the application of design theories and principles to develop effective design solutions
- Apply typographic skills and knowledge to create effective visual communications
- Use a variety of technologies to create, capture, and manipulate design elements in producing a final product
- Communicate effectively, credibly and accurately with clients, supervisors, coworkers and target audiences by using a variety of media
- Apply effective business practices and project management skills appropriate to your position in the graphic design field
- Develop personal and professional strategies and plans to improve career prospects

ADMISSION REQUIREMENTS

ELIGIBILITY

Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years of age or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U (minimum grade required) or equivalent, or skills assessment.

ADDITIONAL REQUIREMENTS

- Attend a mandatory program admission session where you will submit a portfolio of work.
- Portfolio requirements
 - » Select up to 15 pieces of your original work in art and design. (Your sketchbook should demonstrate your problem-solving and creative process as well as present work in variety of media, materials and techniques. Include three drawings from direct observation, such as figure drawing, portrait and still-life.)

- » Show work that demonstrates your ability and interest in graphic design
- » Include colour integrated designs created in digital illustration and digital imaging applications
- » Include a short research paper about your design philosophy and field of interest
- » Present mounted or framed work in your portfolio case. Please number all pieces in your portfolio
- » If work is too large to transport, you may present photographs.

Note: Ask us about distance testing.

NOTE

1. It is recommended that students applying to the Graphic Design Media program have a certificate from Centennial's Art and Design Foundation Studies program or its equivalent, or equivalent work experience

PROGRAM OUTLINE

Semester 1

COMM-170/171	College Communications 2
GMD-104	Design & Imaging*
GMD-101	Design Process 1*
GMD-102	Drawing in Graphic Communication*
GNEED	General Education Elective
GNEED-173	Social History of Design
GMD-103	Two-Dimensional Design + Typography*

Semester 2

GMD-128	Branding*
GMD-121	Design Process 2*
GMD-123	Editorial Design*
GMD-122	Intro to Advertising + Copywriting*
GMD-129	Intro to Interactive and Mobile Design*
GMD-127	Intro to Print Production*
GMD-126	Two-Dimensional Design & Typography 1*

Semester 3

GMD-124	Corporate Identity*
GMD-201	Design Process 3*
GNEED-500	Global Citizenship: From Social Analysis to Social Action
GMD-125	Package Design*
GMD-202	Publication Design*
GMD-205	Web Design 1*

Semester 4

COMM-180	College Communications 3
GMD-227	Electronic Print Production*
GMD-221	Illustration Workshop*
GMD-226	Interactive Design for Mobile Platforms*
GMD-223	Motion Graphics 1*
GMD-222	Web Design 2*

Semester 5

GMD-303	Advanced Typography*
GMD-304	Development for Designers*
GMD-301	Motion Graphics 2*
GMD-225	Portfolio Workshop*
GMD-224	Professional Practice*

Semester 6

GMD-307	Comprehensive Project: Execution*
GMD-306	Comprehensive Project: Process*
GMD-305	Comprehensive Project: Research
GMD-302	Field Placement*

Note: Students will be placed in the appropriate English level based on skills assessment results.

*minimum C grade required

Health Informatics Technology

Program Code: 3508

3518 (co-op)

Program Length: 3 years/6 semesters (3508)

3 years/9 semesters (3518)

Credential: Ontario College

Advanced Diploma

Start: Fall, Winter

Campus: Progress

is@centennialcollege.ca

416-289-5000, ext. 3556

Program Overview

This advanced diploma program in Health Informatics Technology will incorporate knowledge of both information technology and healthcare systems. The skills acquired by the graduates will enable them to design, develop, modify, and test software for healthcare applications.

As a graduate from this program, you will be able to analyze and model data, develop healthcare databases and apply different computer medical-imaging techniques. You will also use tools, algorithms and health informatics methods for hospitals, schools, healthcare agencies and public health departments.

The coursework will emphasize object-oriented software design methodologies, user-oriented interface design, structure of healthcare information systems, telehealth, data security and privacy in healthcare systems. It will also focus on technologies such as C#, Java, Java EE, Oracle, MS-SQL Server, Unix/Linux, Microsoft's .NET, HTML/XML, Rational/WebSphere, Data warehousing and Data mining, and BI tools in healthcare systems and more.

To emphasize the applied focus of the curriculum, the program will include two software development projects in the field of health informatics. These real world business applications will require you to utilize all the technical, systems and business skills gained during your studies.

The program allows students to obtain hands-on experience through the co-op component. Academically-qualified students enhance their education by working three terms as paid employees in the field. The experience not only allows you to put classroom learning into practice, but also provides valuable contacts for future careers.

Fast forward to the Fast-track options, p 166.

BENEFITS

PROGRAM HIGHLIGHTS

- The opportunity exists for three terms of paid co-op experience
- Courses are delivered using leading-edge technology geared to industry standards
- The program provides technical electives and project-based learning
- Knowledgeable and approachable faculty members have diverse business experience and academic credentials

CAREER OUTLOOK

Graduates of this program are prepared for entry-level positions in a variety of environments, including:

- Clinical
- Research
- Educational

Graduates of this program can work as:

- Software developers
- Health data analysts
- Database developers
- Systems implementation specialists
- Business/systems analysts

CTAB NATIONALLY ACCREDITED PROGRAM

The Health Informatics Technology program has met the national technology accreditation requirements established by the Canadian Council of Technicians and Technologists (CCTT) and, as such, has received national accreditation status by the Canadian Technology Accreditation Board (CATB).

RECOGNITION AS A CERTIFIED ENGINEERING TECHNOLOGIST



OACETT (The Ontario Association of Certified Engineering Technicians and Technologists) recognizes the Health Informatics Technology program as meeting all the academic requirements for certification in the Technologist category.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

At A Glance

Organizations that have hired our software diploma graduates include:

- Ontario health networks
- Ontario hospitals
- Government

ACADEMIC REQUIREMENTS

- English Grade 12 C or U, or equivalent, or skills assessment.
- Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment

CO-OP REQUIREMENTS

- Minimum of 80 per cent of year 1 courses
- Minimum C grade in COMM-170/171
- GPA of 2.5 or greater for COOP-221

PROGRAM OUTLINE

Semester 1

COMM-170/171 College Communications 2
MATH-175 Functions and Number Systems
COMP-122 Introduction to Database Concepts
COMP-100 Programming I
COMP-120 Software Engineering Fundamentals
GNED-219 The Canadian Workplace Experience

Semester 2

MATH-185 Discrete Mathematics
COMP-123 Programming 2
COMP-225 Software Engineering Methodologies 1
COMP-380 Structure of HCIS
COMP-301 UNIX/Linux
COMP-213 Web Interface Design

Semester 3

ENGL-253 Advanced Business Communications
COMP-214 Advanced Database Concepts
COOP-221 Employment Preplacement (3518)
GNED-500 Global Citizenship: From Social Analysis to Social Action
COMP-246 Object Oriented Software Engineering
COMP-381 Tools, Algorithms & Methods for HCIS
COMP-229 Web Application Development

COOP-222

Co-op Work Placement 1 (3518)

Semester 4

GNED General Education Elective
COMP-228 JAVA Programming
MATH-210 Linear Algebra and Statistics
CNET-124 Network Technologies
COMP-212 Programming 3
COMP-311 Software Testing and Quality Assurance

COOP-331

Co-op Work Placement 2 (3518)

Semester 5

CNET-329 Business and ICT
COMP-382 Computer Techniques in Medical Imaging
CNET-307 IT Project Management
COMP-231 Software Development Project I
COMP-321 Systems Integration
ELECT Professional Elective*

COOP-332

Co-op Work Placement 3 (3518)

Semester 6

COMP-383 Data Security and Privacy Policies in HCIS
COMP-309 Data Warehousing and Data Mining in HCIS
COMP-313 Software Development Project 2
ELECT Professional Elective*
ELECT Professional Elective*
COMP-384 Telehealth
EMPS-102 Employment Skills 2 (3508)

*Professional Electives

COMP-303 J2EE Programming
COMP-304 Wireless Programming
COMP-306 Web Services Programming

Note: The dynamic curriculum presented here including elective options will be revised as appropriate to retain its currency. Internal curriculum development/review is ongoing.

Healthcare Environmental Services Management

Program Code: 9158 **NEW**
Program Length: 2 years/4 semesters
Credential: Ontario College Diploma
Start: Fall
Campus: Morningside
healthstudies@centennialcollege.ca
416-289-5303

Program Overview

With today's changing healthcare environment and the increased need for infection control measures in the healthcare setting, there is a demand for qualified environmental service managers to develop systems and processes to protect workers, clients and patients from environmental hazards present in the healthcare setting and to operate buildings that are safe and energy efficient.

Through the program students will learn to develop, implement and monitor operating systems, think critically, problem solve, work with a diverse team, and adapt to change. Students will combine healthcare environmental service knowledge with business and human relations skills to prepare for challenging careers.

This diploma program will allow graduates to find employment in hospitals, nursing homes, and retirement homes. Students will also be eligible for employment in commercial buildings, schools and residential buildings.

GLOBAL CITIZENSHIP AND EQUITY PORTFOLIO

Students in this program will develop a portfolio documenting their engagement with the College's signature global citizenship and equity competencies. For more information on Global Citizenship and Equity, the GC&E Portfolio and the supports available to you, please see page i.

BENEFITS

The Healthcare Environmental Services Management program incorporates classroom lectures, hands-on practical lab experience, field trips and guest speaker presentations. You will develop the skills needed to be part of an exciting and growing industry.

PROGRAM HIGHLIGHTS

- Large, well-equipped industry specific laboratories
- Computer labs with industry specific software
- Two field placements (one in second semester and one in fourth semester)
- Diploma reflects high standards of learning and transferrable skills
- Focuses on the environmental services department within a healthcare setting
- Hands-on practical experience

CAREER OUTLOOK

The graduate has reliably demonstrated the ability to:

- Support the provision of a healthy, safe and sanitary healthcare environments according to guidelines set by current legislation, standards and regulations.
- Analyze infection prevention and control practices to ensure compliance with current legislation standards and regulations.
- Work effectively as part of an interprofessional healthcare team to ensure successful functioning of the facility.
- Apply quality management principles in compliance with requirements established by the organization and regulatory bodies.
- Manage the healthcare environmental services operations as outlined by the departmental/organizational business plan.
- Develop ongoing personal and professional development strategies and plans to achieve realistic career goals and to enhance management skills.
- Analyze and evaluate the impact of social, ethical and legal issues on individual and/or organizational operations within a healthcare environmental services context.
- Contribute to the development, implementation and evaluation of the recruitment, orientation, training, development and retention programs for healthcare environmental services employees.
- Develop and evaluate a departmental budget that reflects fiscal accountability and financial planning.
- Apply effective human resource management practices to enhance organizational and individual productivity and performance.
- Document, generate, and maintain all required records in compliance with current healthcare environmental services regulations, standards and established protocol.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature status (19 years or older)

ACADEMIC REQUIREMENTS

- Compulsory English 12C or U or skills assessment, or equivalent and,
- Math 11M or U or 12C or U or skills assessment, or equivalent

FIELD PLACEMENT REQUIREMENTS

- Obtain an annual clear police check with vulnerable screening
- Complete immunization requirements (immunization review form); a standard form will be issued by the program coordinator
- Successfully complete and annually renew a recognized course in CPR (Healthcare provider level)
- Successfully complete a recognized course in standard first aid
- Mask fit testing will be provided by Centennial College (shaving of portion of face may be required to meet safety standards)

PROGRAM OUTLINE

Semester 1

HESM-102	Cleaning and Linen Methodology 1
COMM-160/161	College Communications 1
HESM-104	Computer Applications
HESM-101	Infection Control 1
GNED-126	Occupational Health & Safety
HESM-103	Role of the Healthcare Environmental Services Manager
	The Healthcare System

Semester 2

COMM-170/171	College Communications 2
HESM-107	Communication and Interprofessional Collaboration for Environmental Services
	Field Placement 1
HESM-106	Global Citizenship: From Social Analysis to Social Action
GNED-500	Math Application for Environmental Services
HESM-108	Purchasing and Materials Management

Semester 3

HESM-202	Cleaning and Linen Methodology 2
GNED	General Education Elective
HESM-204	Healthcare Business Practices
HESM-205	Human Resources Management
HESM-201	Infection Control 2
HESM-203	Management and Leadership Principles

Semester 4

HESM-209	Cost Analysis
HESM-206	Field Placement 2
HESM-211	Financial Management & Budgeting
HESM-208	Labour Relations
HESM-207	Plant Operations & Systems Management
HESM-210	Professional Practice

Heating, Refrigeration and Air Conditioning Technician

Program Code: 3825 **NEW**
Program Length: 2 years/4 semesters
Credential: Ontario College Diploma
Start: Fall, Winter
Campus: Progress
hrac@centennialcollege.ca
416-289-5000, ext. 2356

Program Overview

Centennial's program prepares students for a career in Refrigeration, Air Conditioning and Heating. You will acquire a broad knowledge of the design, installation and service techniques of heating and air conditioning systems for commercial and residential settings. Students learn to maintain, size and select equipment for air conditioning and refrigeration application.

BENEFITS

PROGRAM HIGHLIGHTS

The world has become very technology focused with great strides being made in heating, refrigeration and air conditioning technology. The Heating, Refrigeration, and Air Conditioning Technician program spans the areas of design and engineering and encompasses, to name a few, the following:

- The development of refrigerants
- Development of equipment to meet the Seasonal Energy Efficiency Ratio (SEER) standards
- The efficiency standards for heating equipment
- Installation and service techniques

CAREER OUTLOOK

Graduates of this program may obtain employment as heating technicians or through affiliated trade apprenticeships in plumbing, pipefitting, electrical, sheet metal or refrigeration. Apprenticeship is required after graduation, for those who wish to become tradespersons. Employment may also occur in sales, design, technical support, or as maintenance personnel in residential, commercial, institutional, and industrial settings.

At A Glance

Graduates are prepared to work in heating, refrigeration and air conditioning areas such as:

- Technical support
- Maintenance and installation
- Design
- Sales and service

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U or equivalent, or skills assessment.
- Math Grade 11 M, C or U or Grade 12 M, C or U, or equivalent, or skills assessment

PROGRAM OUTLINE

Semester 1

HRAC-111	Acts, Regulations and Procedures
COMM-160/161	College Communications 1
GNE-212	Ethics in Technology and the Environment
HRAC-112	Fundamentals of Cooling Cycles
MATH-101	Mathematics 1
HRAC-113	Mechanical Cooling Cycle

Semester 2

COMM-170/171	College Communications 2
HRAC-121	Electrical Fundamentals
HRAC-123	Heating Fundamentals
HRAC-122	Mechanical Drawing & Prints
HRAC-124	Pipe Joining & Installation for Cooling

Semester 3

HRAC-213	Electrical & Control Systems
GNE-500	Global Citizenship: From Social Analysis to Social Action
MATH-102	Mathematics 2
HRAC-211	Psychrometrics – Control System Design & Installation
HRAC-212	

Semester 4

HRAC-224	Advanced Electrical and Control Systems
HRAC-223	Air Conditioning & Distribution Systems
HRAC-221	Capstone Project
GNE	General Education Elective
HRAC-222	Heating Hydronic Fundamentals

Heavy Duty Equipment Technician (Co-op Apprenticeship)

Program Code: 8205

Program Length: 2 years/6 semesters

Credential: Ontario College Diploma

Start: Fall

Campus: Ashtonbee

sot@centennialcollege.ca

416-289-5000, ext. 7261

Program Overview

This program will prepare you for an exciting future as a skilled professional in the heavy equipment field. The in-school training, combined with practical on-the-job experience that is gained in the co-op work placement will provide an excellent start to an apprenticeship.

Successful students will earn an Ontario College diploma, will have eight months of practical, on-the-job, co-op training at a heavy equipment facility and complete their entire Ontario apprenticeship in-school curriculum within two years. In addition, you will take courses in advanced electrical/electronics, logistics, plus hoisting and rigging that is only available at Centennial.

To complete this program, you will spend the first eight months in school, eight months in co-op as a registered apprentice and a final eight months in school. As part of the in-school curriculum, you will train on heavy duty equipment assemblies in fully-equipped heavy duty equipment labs. You will focus on applied mechanics, vehicle dynamics as well as component design and repair, as it applies to the apprenticeship curriculum. In addition, you will take courses in business, English and general education.



BENEFITS

PROGRAM HIGHLIGHTS

- In-school theory and lab experience is combined
- Centennial's facilities are one of Ontario's largest transportation training centres
- Both in-school apprenticeship curriculum and an Ontario College diploma are completed
- Vocational and motive power business-related courses are advanced
- On-the-job experience is completed through a paid co-op placement

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or General Educational Development (GED) or equivalent

ACADEMIC REQUIREMENTS

- English Grade 12 C or U or equivalent, or skills assessment

ADDITIONAL REQUIREMENTS

- Submit a résumé and questionnaire that describes experience and aptitude
- Attend an interview (by invite only, based on resumé and questionnaire) with faculty/potential employer

Successful applicants must be eligible to work in Ontario and have an Ontario driver's license.

TESTIMONIAL

"During my co-op, I found a well-paying heavy equipment position at a very reputable company, at which I am still working presently. Starting in the summer of 2006, my experience and education enabled me to volunteer at the Oshawa Military Museum as a tank mechanic. During my time at the museum, I maintained a fleet of six tracked armoured fighting vehicles and other larger vintage tanks. This work led me to military parades and even movies and television shows, including the recent debut of one of my TV shows called I Could Do That. I am the tank instructor on the show. What better way to promote the program than a new television show with one of your grads portraying a teacher..."

If I could say one thing about my time at Centennial it would be: College studies unlock the doors that you want to open, all you have to do is open it and walk through. Centennial gave me that option and I took it."

Jon Ellison (tpr)

PROGRAM OUTLINE

Semester 1

DACV-106
DACV-105
DACV-107
DACV-102
DACV-109
DACV-108
GNED-126
DACV-101

Level 1

Brake Systems
Drive Train Systems
Electrical Systems
Engine Systems
Fluid Power Systems
Fuel Systems
Occupational Health & Safety
Trade Practices

Semester 2

DAHD-209
COMM-160/161
DAHD-210
DAHD-207
COOP-521
DAHD-206
DAHD-201
DAHD-208
DAHD-205

Brake Systems
College Communications 1
Drive Train Systems
Electrical/Electronics Systems
Employment Pre-placement
Engine Systems
Fluid Power Systems
Fuel Systems
Trade Practices

Semester 3

COOP-522

Co-op Work Placement Period

Semester 4

COOP-523

Co-op Work Placement Period

Semester 5

DAHD-309
COMM-170/171
DAHD-307
DAHD-301
GNED-500

Brake Systems
College Communications 2
Electrical/Electronic Systems
Fluid Power Systems
Global Citizenship: From Social Analysis to Social Action
Heavy Equipment Logistics
Organizational Behaviour
Trade Practices

DAHD-501

BUSN-221

DAHD-305

Semester 6

DAHD-607

Advanced Electronics Control Systems
Diagnosis
Alternate Fuel Systems
Drive Train Systems
Engine Systems
Fixed Operations Management
Fuel Systems
General Education Elective
Hoisting and Rigging Technology

Note: Students will be placed in the appropriate English level based on skills assessment results

At A Glance

Graduates are prepared to work as:

- Heavy duty equipment technicians
- Service writers/coordinators
- Service managers
- College teachers/industry teachers
- Equipment company representatives

Hospitality Management – Restaurant and Catering

Program Code: 1808

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall

Campus: Progress

hospitality@centennialcollege.ca

416-289-5000, ext. 2323

Program Overview

The Canadian Tourism Human Resource Council (CTHRC) anticipates that the food and beverage services sector will grow to employ 1.95 million people by 2015. The CTHRC has also reported that 68 per cent of employees within this sector are young Canadians.

Centennial College's two-year Restaurant and Catering diploma program will prepare you for a challenging and satisfying career in restaurant operations management. You will learn skills that are essential to this segment of the industry, including menu management and design, kitchen management, beverage knowledge and bartending.

In addition, you will also spend two days per week in a placement at a restaurant or a hotel. This placement will give you the practical experience to complement the theory learned in class.

TESTIMONIALS

"The instructors imparted all the necessary knowledge and shared their experiences that are needed to be successful in the hospitality industry."

Bertrand Yeung, Hospitality Management – Restaurant and Catering (formerly known as Hospitality Management – Food and Beverage), 2010

BENEFITS

PROGRAM HIGHLIGHTS

- Centennial houses an on-campus student training restaurant, a hospitality management centre and lab practice facilities
- The program allows for a flexible course schedule
- Courses cover business practices in accounting, purchasing, human resources, supervision and cost control
- You'll gain practical experience with some of Canada's largest restaurant companies through the School's two-days-a-week placement
- Certifications include the Smart Serve program and the National Sanitation Training certificate
- Many of this program's corporate and business partners will hire students during or after periods of work experience.

EDUCATIONAL PARTNERS

Qualified graduates may be eligible to participate in an articulated program with selected universities, institutes and professional associations. These partnerships allow students to apply academic credit towards further study.

Our partners are:

- Athabasca University (AB)
- International Hotel Management Institute (Switzerland)
- Vancouver Island University (BC)
- University of New Brunswick
- Royal Roads University (BC)

Note: The qualification requirements and costs for each external accreditation, designation, certification or recognition are set by the granting body, not by Centennial College. In order to qualify for any external accreditations, designations, certifications or recognitions, students and graduates will need to follow the processes and meet the applicable requirements listed on the websites and in the materials of those external bodies.

At A Glance

Our industry partners include:

- Cara
- Darden Restaurants
- Red Lobster
- Prime Restaurants
- Shoeless Joe's
- The Keg
- SIR Corp
- Cruise Lines
- Hotels

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U or equivalent, or skills assessment

PROGRAM OUTLINE

Semester 1

COMM-160/161 College Communications 1
GNED-160 Customer Service: A Modern Approach
HOTL-152 Human Resources & Career Planning
HTAP-102 Introduction to Hospitality Accounting
HTAP-153 Practical Math for Hospitality
KMGT-100 Quantity Food Production
HTAP-157 Sanitation, Safety and Hygiene
KMGT-101 Theory of Food

Semester 2

COMM-170/171 College Communications 2
KMGT-299 Field Placement – Kitchen Manager
KMGT-200 Food Production, Practical Supervision
HOTL-206 Principles of Food, Beverage & Labour
Cost Controls
KMGT-104 Purchasing for the Commercial Kitchen
KMGT-103 Supervisory Practices for the Kitchen Manager

Semester 3

HTAP-151 Beverage Knowledge and Bartending
FBMP-203 Cuisines of Diverse Cultures
GNED General Education Elective
GNED-500 Global Citizenship: From Social
Analysis to Social Action
FBMP-202 Menu Management & Design
HTAP-201 Principles of Hospitality Management

Semester 4

FBMP-253 Dining Room Management
FBMP-254 Field Placement – Restaurant &
Catering Management
FBMP-252 Hospitality Industry Issues
HTAP-200 Hospitality Managerial Accounting
HTAP-302 Marketing Strategies

Note: minimum C grade is required for graduation.

THIS PROGRAM IS ENDORSED BY



Hospitality Management – Hotel and Resort

Program Code: 1807

Program Length: 2 years/4 semesters

Credential: Ontario College Diploma

Start: Fall, Winter, Summer

Campus: Progress

hospitality@centennialcollege.ca

416-289-5000, ext. 2323

Program Overview

This program is designed for students who are planning to build their futures in the accommodation industry. In 2010, the accommodation, food and beverage sectors employed 1,086,000 people and generated revenues of almost \$18.8 billion.

Centennial College's Hotel & Resort program admits students at three points during the year (September, January and May), allowing you to complete the two-year program in 16 months. Courses cover a full range of business practices in marketing, human resources, hospitality accounting and industry operations as applied to the accommodation, food and beverages industries.

You will gain valuable work experience through an individualized industry placement, designed to provide a practical foundation for your career. After graduation, many students continue on as full-time employees at their placements.

BENEFITS

PROGRAM HIGHLIGHTS

Graduates are prepared to:

- Ensure a high degree of customer satisfaction by providing hospitality services in a professional manner
- Perform effectively as an accommodation operations team member
- Perform effectively as a member of a food and beverage preparation and service team
- Provide quality food and beverage planning, preparation and presentation for a variety of hospitality environments
- Apply human resources, management and leadership knowledge and skills to enhance performance as an employee and team member and to contribute to the management of a hospitality enterprise
- Apply basic cost control, revenue management and principles of financial planning, analysis and control to assist in making decisions at an operational level and to contribute to the achievement of financial plans of a hospitality enterprise
- Contribute to marketing and sales effectiveness to promote successful operation of a hospitality enterprise

- Identify the various Canadian tourism industry sectors and analyze their interdependence
- Support the provision of healthy, safe, and well-maintained hospitality environments
- Recognize and adapt to various and changing technologies, systems and computer applications for the hospitality industry
- Expand and integrate hospitality experience, skills and knowledge to enhance job performance and future employability
- Develop ongoing personal professional development strategies and plans to achieve realistic career goals and to enhance leadership and management skills for the hospitality environment

EDUCATIONAL PARTNERS

Qualified graduates may be eligible to participate in an articulated program with selected universities, institutes and professional associations. These partnerships allow students to apply academic credit towards further study.

Our partners are:

- Athabasca University (AB)
- International Hotel Management Institute (Switzerland)
- Vancouver Island University (BC)
- University of New Brunswick
- Royal Roads University (BC)

CAREER OUTLOOK

Graduates are prepared to work in areas of the accommodation industry such as:

- General management
- Human resources management
- Sales & marketing management
- Cruise lines

Note: The qualification requirements and costs for each external accreditation, designation, certification or recognition are set by the granting body, not by Centennial College. In order to qualify for any external accreditations, designations, certifications or recognitions, students and graduates will need to follow the processes and meet the applicable requirements listed on the websites and in the materials of those external bodies.

At A Glance

Organizations hiring our graduates include:

- Delta Hotels & Resorts
- Fairmont Hotels & Resorts
- Four Seasons Hotels & Resorts
- InterContinental Hotel Group
- Marriott Hotels & Resorts
- Starwood Hotels & Resorts
- Hyatt Hotels & Resorts

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U or equivalent, or skills assessment.

PROGRAM OUTLINE

Semester 1

HTAP-151	Beverage Knowledge and Bartending
COMM-160/161	College Communications 1
GNEED	General Education Elective
HOTL-154	Introduction to Hospitality Management
HTAP-100	Kitchen & Dining Room Practices
HTAP-157	Sanitation, Safety and Hygiene
KMGT-101	Theory of Food

Semester 2

COMM-170/171	College Communications 2
HOTL-102	Front Office Operations
GNEED-500	Global Citizenship: From Social Analysis to Social Action
HTAP-154	Hospitality and Tourism Marketing
HOTL-152	Human Resources & Career Planning
HTAP-102	Introduction to Hospitality Accounting

Semester 3

HTAP-304	Hospitality & Tourism Law & Security
HOTL-203	Hotel Sales and Marketing
HOTL-205	Housekeeping & Facilities Management
HOTL-206	Principles of Food, Beverage & Labour Cost Controls
HTAP-201	Principles of Hospitality Management
HTAP-323	Special Events Practicum

Semester 4

HOTL-251	Field Placement Review
GNEED	General Education Elective
HOTL-299	Hotel & Resort Field Placement

Hospitality Operations – Kitchen Management

Program Code: 1806

Program Length: 1 year/2 semesters

Credential: Ontario College Certificate

Start: Fall

Campus: Progress

hospitality@centennialcollege.ca

416-289-5000, ext. 2323

Program Overview

The Canadian Tourism Human Resource Council (CTHRC) anticipates that the food and beverage services sector will grow to employ 1.95 million people by 2015. The CTHRC has also reported that, presently, 68 per cent of employees within this sector are young Canadians.

Centennial College's one-year Kitchen Management certificate program will prepare you for a challenging and rewarding career in food operations management. As a student of this unique program, you will learn a range of skill sets including hands-on experience in our on-campus, student training restaurant called Horizons. You will also master business practices in accounting, human resources and supervision. The field placement component will allow you to apply theory to practice and even transition to a successful job.

TESTIMONIALS

"The program is a great master plan for those who want to pursue a career in this industry. Each subject truly equips us with the knowledge, skills and experiences that we need to become successful in our field."

Severo Vitorio Pastor, Hospitality Operations – Kitchen Management Graduate, 2009

"It was a wonderful experience and I learned a lot. The teachers were very hands-on. The wide diversity of students allowed me to learn from them as well".

Deniece Phillips, Hospitality Operations – Kitchen Management Graduate, 2009

BENEFITS

PROGRAM HIGHLIGHTS

- The school offers lab practice facilities
- Flexible course schedules are available
- Certifications include the Smart Serve program and the National Sanitation Training certificate
- There is an opportunity to articulate into the second year of Centennial's two-year Restaurant & Catering program
- Many of this program's corporate and business partners will hire students during or after periods of work experience

Note: The qualification requirements and costs for each external accreditation, designation, certification or recognition are set by the granting body, not by Centennial College. In order to qualify for any external accreditations, designations, certifications or recognitions, students and graduates will need to follow the processes and meet the applicable requirements listed on the websites and in the materials of those external bodies.

At A Glance

Industry partners include:

- Cara
- Darden Restaurants
- Red Lobster
- Prime Restaurant
- Shoeless Joe's
- The Keg
- SIR Corp
- Wyndham International
- Choice International
- SIR Corp

ADMISSION REQUIREMENTS

ELIGIBILITY

Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older).

ACADEMIC REQUIREMENTS

- English Grade 12 C or U or equivalent, or skills assessment.

PROGRAM OUTLINE

Semester 1

COMM-160/161	College Communications 1
GNED-160	Customer Service: A Modern Approach
HOTL-152	Human Resources & Career Planning
HTAP-102	Introduction to Hospitality Accounting
HTAP-153	Practical Math for Hospitality
KMGT-100	Quantity Food Production
HTAP-157	Sanitation, Safety and Hygiene
KMGT-101	Theory of Food

Semester 2

COMM-170/171	College Communications 2
KMGT-299	Field Placement – Kitchen Manager
KMGT-200	Food Production, Practical Supervision
HOTL-206	Principles of Food, Beverage & Labour Cost Controls
KMGT-104	Purchasing for the Commercial Kitchen
KMGT-103	Supervisory Practices for the Kitchen Manager

*Work Release: 2 days a week; Monday & Tuesday, Semester 2
Note: minimum C grade is required for graduation.*



Hospitality Services

Program Code: 1819

Program Length: 1 year/2 semesters

Credential: Ontario College Certificate

Start: Fall

Campus: Progress

hospitality@centennialcollege.ca

416-289-5000, ext. 2323

Program Overview

Hospitality Services is a broad term used to describe a range of careers available in the hospitality industry. Do you want to work in a fast-paced organization that needs happy, smiling people? Do you like to work with your hands? Do you want to be part of the “front-of-the-house” dealing with customers or are you more comfortable working in the “back-of-the-house”?

You will enjoy the variety offered in the curriculum and the hands-on experience, which could potentially lead to jobs such as room attendant, front desk clerk, food server, cook or a job in the maintenance department of a hotel. You will spend two days a week in a placement at a restaurant or hotel that will give you the practical experience to complement the theory learned in class.

You also have the opportunity to take certification exams in Sanitation and Beverage Services, thus graduating with the confidence and required skills to work in this industry.

TESTIMONIALS

“My experience at Centennial College is a life time experience for me. My professors treat all students with the same respect and go the extra mile to help each student, whether it may be individually or in a group. My learning experience is so different from my past school because I don’t only do theory but I also do practical. The impact Centennial had on me is that it helped me to be more confident in whatever I do, handle pressure, and decide what I really want in life, which is to have a better education and to be independent. Without Centennial and my professors I would not have achieved these.”

Annakay McCalla, Hospitality Services Graduate, 2011

BENEFITS

PROGRAM HIGHLIGHTS

- Special attention is paid to food and beverage services, kitchen operations, housekeeping and front office skills are taught
- Hands-on industry experience is gained through the on-campus training restaurant laboratory
- Computerized training facility is available
- Faculty is knowledgeable and has current experience
- Certificate reflects high standards of learning
- High employability rates in the field
- Job seeking techniques, job interview and resumé skills are taught
- Transferability is available into the Hospitality and Tourism programs
- You can look forward to challenging and exciting opportunities in many different hospitality service-related positions, both locally and across Canada

Note: The qualification requirements and costs for each external accreditation, designation, certification or recognition are set by the granting body, not by Centennial College. In order to qualify for any external accreditations, designations, certifications or recognitions, students and graduates will need to follow the processes and meet the applicable requirements listed on the websites and in the materials of those external bodies.

ADDITIONAL FEE REQUIREMENTS

- Course materials are about \$60 per semester covering in-class supplies (exclusive of textbooks), field trips and related materials.

“I studied in an industry that I am passionate about. The Hospitality Services program consists of learning about hotels and restaurants. The focus is put on food and beverage services, sanitation, life skills and job readiness. This experience has taught me about time management skills and resourcefulness. Centennial College is a multi-cultural community. Centennial College has had major impact on me in terms of informing me about global citizenship opportunities. Teachers are awesome about pushing me to succeed and are knowledgeable about this industry. This is the best educational experience I have ever known.”

Ejikeme Ehirim, Hospitality Services Graduate, 2011

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

PROGRAM OUTLINE

Semester 1

ENGL-120	Communication Skills for Hospitality Service Workers 1
HT-174	Field Placement, Part 1
HT-175	Front of the House Agent
HT-177	Introduction to Math 1
HT-185	Life Skills and Job Readiness, Part 1
HT-176	Room Attendant
HT-179	Visitor Information Services

Semester 2

HT-172	Beverage Services
ENGL-122	Communication Skills for Hospitality Service Workers 2
HT-183	Field Placement, Part 2
HT-188	Introduction to Math 2
HT-187	Kitchen and Dining Room Operations
HT-186	Life Skills & Job Readiness, Part 2
HT-173	Safety & Sanitation

Note: minimum C grade is required for graduation.

At A Glance

Companies that have hired graduates include:

- McDonald's
- St. Josephs Hospital
- Swiss Chalet
- Taco Bell

Hospitality and Tourism Administration

Program Code: 1805

Program Length: 3 years/6 semesters

Credential: Ontario College

Advanced Diploma

Start: Fall, Winter, Summer

Campus: Progress

hospitality@centennialcollege.ca

416-289-5000, ext. 2323

Program Overview

Designed for those planning to build their futures in the tourism industry, this program truly reflects Canada's second largest employment sector, which provides a diverse range of career opportunities. The tourism industry boasts revenue in excess of \$61.4 billion from 60,000 different companies that employ over 1.66 million Canadians coast-to-coast.

According to the Canadian Tourism Human Resource Council, forecasts suggest that between 2006 and 2015, 290,690 new jobs within the tourism industry will have been created.

Centennial's three-year Hospitality and Tourism Administration program admits students at three points throughout the year. Courses cover a full range of business practices in marketing, human resources, finance and industry operations — as applied to the entire hospitality and tourism field.

You will gain valuable work experience through an individualized industry placement, designed to provide a practical foundation for your career. After graduation, many students continue on as full-time employees at their placements.

GLOBAL CITIZENSHIP AND EQUITY PORTFOLIO

Students in this program will develop a portfolio documenting their engagement with the College's signature global citizenship and equity competencies. For more information on Global Citizenship and Equity, the GC&E Portfolio and the supports available to you, please see page i.

TESTIMONIALS

"Centennial's applied program prepares students for the real working world. We look forward to continue fostering our relationship with the hospitality school and the students."

Mary Sardella, Director of Human Resources for the Four Seasons Hotel Toronto, and 1988 Centennial College Hospitality graduate

"At Centennial I was taught the ins and outs of the hospitality industry and was able to gain valuable experience through practical studies as well as a great deal of knowledge."

Brittany Skene, Graduate 2008

BENEFITS

PROGRAM HIGHLIGHTS

- Students participate in a four-day-per-week, 15-week field placement in the final semester
- Operational lab practice facilities are available
- The College houses a full service hospitality management centre, an onsite conference centre and state-of-the-art computer labs

EDUCATIONAL PARTNERS

Qualified graduates may be eligible to participate in an articulated program with selected universities, institutes and professional associations. These partnerships allow graduates to apply academic credit towards further study.

Our partners are:

- Athabasca University (AB)
- International Hotel Management Institute (Switzerland)
- Vancouver Island University (BC)
- Southern New Hampshire University (USA)
- University of Calgary (AB)
- University of Guelph (ON)
- University of New Brunswick
- University of South Carolina (USA)
- Royal Roads University (BC)

CAREER OUTLOOK

Graduates are prepared to work in tourism and hospitality areas such as:

- Hotel and restaurant general management
- Human resources management
- Sales and marketing management
- Convention services coordination
- Tour coordination

Organizations hiring program graduates include:

- Tourism Toronto
- Starwood Hotels & Resorts
- Hyatt Hotels & Resorts
- Marriott Hotels & Resorts
- Wyndham International
- Choice International
- SIR Corp
- Shoeless Joe's
- The Keg

The qualification requirements and costs for each external accreditation, designation, certification or recognition are set by the granting body, not by Centennial College. In order to qualify for any external accreditations, designations, certifications or recognitions, students and graduates will need to follow the processes and meet the applicable requirements listed on the websites and in the materials of those external bodies.

At A Glance

Organizations hiring program graduates include:

- Delta Hotels
- Fairmont Hotels
- Four Seasons Hotels
- InterContinental Hotels

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U or equivalent, or skills assessment.

PROGRAM OUTLINE

Semester 1

HTAP-151	Beverage Knowledge and Bartending
COMM-160/161	College Communications 1
HTAP-103	Dimensions of Tourism
HTAP-154	Hospitality and Tourism Marketing
CHTM-101	Introduction to Cultural & Heritage Tourism
HTAP-157	Sanitation, Safety and Hygiene
KMGT-101	Theory of Food

Semester 2

COMM-170/171	College Communications 2
CHTM-207	Customer Relationship Management
HTAP-102	Introduction to Hospitality Accounting
HTAP-100	Kitchen & Dining Room Practices
HTAP-155	Presenting and Communicating Effectively
GNE-159	World Geography for Tourism

Semester 3

HOTL-102	Front Office Operations
GNE-500	Global Citizenship: From Social Analysis to Social Action
HTAP-200	Hospitality Managerial Accounting
CHTM-103	Ontario Cultural & Heritage Tourism Product
HTAP-201	Principles of Hospitality Management
ENGL-302	Professional Communication and Report Writing for Hospitality Students
TRAV-112	Wholesale Tour Operations

Semester 4

GNE-1	General Education Elective
TRAV-204	Groups and Incentives
HOTL-203	Hotel Sales and Marketing
HOTL-205	Housekeeping & Facilities Management
HOTL-152	Human Resources & Career Planning
HTAP-221	Meeting and Convention Management
HOTL-206	Principles of Food, Beverage & Labour Cost Controls

Semester 5

HTAP-304	Hospitality & Tourism Law & Security
HTAP-305	Hospitality and Tourism Entrepreneurship
HTAP-301	Hospitality Financial Accounting
HTAP-303	Issues in Hospitality and Tourism
HTAP-302	Marketing Strategies
CHTM-102	Responsible Tourism
HTAP-323	Special Events Practicum

Semester 6

HTAP-251	Field Placement Review
HTAP-399	Hospitality and Tourism Field Placement

Note: minimum C grade is required for graduation.

Journalism

Program Code: 6402

Program Length: 3 years/6 semesters

Credential: Ontario College

Advanced Diploma

Start: Fall

Campus: The Centre for

Creative Communications

thecentre@centennialcollege.ca

416-289-5000, ext. 5100

Program Overview

Centennial College's three-year Journalism program is designed for high school graduates. It will prepare you for a new career by taking you from the classroom to the newsroom.

From covering breaking news to exploring human interest stories, journalists report events, interview the newsmakers and examine the issues of our times. Journalism is an exciting and fast-paced career focused on interesting people, places and stories.

In this program you will:

- Apply your newsroom skills for an award-winning community newspaper, an online publication, and radio television news. This experience will make you versatile, prepared and experienced for the workplace as soon as you graduate
- Cover a variety of topics while developing the critical foundation skills you'll need for a career as a reporter, editor or broadcaster.
- Develop new multiplatform and online skills for the evolving world of news reporting.

GLOBAL CITIZENSHIP AND EQUITY PORTFOLIO

Students in this program will develop a portfolio documenting their engagement with the College's signature global citizenship and equity competencies. For more information on Global Citizenship and Equity, the GC&E Portfolio and the supports available to you, please see page i.

Fast forward to the **Fast-track options**, page 169.

At A Glance

Companies that have hired program graduates include:

- National Post
- CTV
- Sportsnet
- Toronto Star
- 680 News

BENEFITS

PROGRAM HIGHLIGHTS

- Gain hands-on experience with The East Toronto Observer, an award-winning community newspaper, and The Toronto Observer, an online news source
- You'll experience one-on-one interaction with faculty in an ultra modern professional newsroom
- Access to other publishing, broadcast and internet facilities at The Centre for Creative Communications campus

EDUCATIONAL PARTNERS

Qualified graduates may be eligible to participate in an articulated program with selected universities, institutes and professional associations. These partnerships allow graduates to apply academic credit towards further study.

Our partner is Athabasca University, Professional Arts degree (Communication Studies).

Students can now earn a journalism diploma from Centennial while working on a four-year honours degree from the University of Toronto Scarborough (UTSC). After applying through U of T, successful candidates will spend two years at the university and then enter Centennial's fast-track program. In four years, you will have earned a diploma and degree.

CAREER OUTLOOK

Graduates are employed as reporters, writers, editors, layout artists and producers at large and small newspapers, magazines and online publications, as well as the radio-television newsrooms.

Companies that have hired program graduates include:

- Toronto Sun
- Canoe.ca
- TSN
- Canadian Living Online
- Global TV

TESTIMONIAL

"...The professors are extremely knowledgeable, accessible and helpful. The curriculum is geared towards teaching practical skills for careers in either print, TV, radio or on the Web, and the experience you gain from working on the Observer is as close to the 'real world' as it gets."

Mike Cormack, Web producer, Sportsnet.ca, Journalism program graduate

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years of age or older)

ACADEMIC REQUIREMENTS

- English Grade 12 C or U (minimum grade required) or equivalent, or skills assessment

ADDITIONAL REQUIREMENTS

- Attend a mandatory program admission session where you will:
 - » Complete an editing test
 - » Complete a current affairs questionnaire
 - » Write a short essay (topic provided)

Note: Ask us about distance testing.

PROGRAM OUTLINE

Semester 1

COMM-170/171	College Communications 2
JO-102	Reporting 1*
GNE-124	Making Sense of the Canadian Political Economy and Influence in Canadian Society
CO-108	Tools and Processes for Communicators

Semester 2

JO-208	Copy Editing*
GNE-500	Global Citizenship: From Social Analysis to Social Action
CO-107	Imaging: Photography*
JO-106	Journalism Law and Ethics*
JO-105	Reporting 2*

Semester 3

COMM-180	College Communications 3
JO-216	Imaging: Photojournalism*
JO-206	Journalism Design*
CO-104	Media Theory, Workplace and Issues
JO-221	Multiplatform Journalism*
JO-200	Reporting 3*

Semester 4

JO-205	Advanced Interviewing Techniques*
JO-207	Editorial Writing*
GNE-500	General Education Elective
JO-203	Magazine/Freelance Journalism*
JO-210	News Laboratory 1*
JO-217	Radio News*

Semester 5

JO-313	Beat Reporting*
JO-318	Journalism Career Management*
JO-316	New Laboratory 2*
JO-317	Television News*

Semester 6

JO-350	Field Placement*
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**minimum C grade required*