

DEGREE PROGRAMS



Computer and Communication Networks

Program Code: 0101

Program Length: 4 years/9 semesters

Credential: Bachelor of Applied Information

Sciences Degree

Start: Fall

Campus: Progress

netw@centennialcollege.ca

416-289-5000, ext. 3556

Program Overview

Specialize in Computer and Communication Networks and be part of a select group of Ontario students to receive a four-year bachelor's degree in Applied Information Sciences. Ontario has a critical need for networking professionals and Centennial College was selected by the Ministry of Training, Colleges and Universities to deliver a program to address this demand. Centennial College is the only post-secondary institution in the province to offer a bachelor's degree program in Computer and Communication Networking.

The program offers a unique blend of technology and business subjects, creating an innovative balance between the practical and the theoretical backgrounds for which employers are looking.

BENEFITS

PROGRAM HIGHLIGHTS

- The state-of-the-art laboratories are specially engineered for the curriculum. They include uniquely equipped facilities offering VoIP, cellular networks, wireless broadband (WiMax), advanced routing and switching as well as network management
- You can specialize in network security or wireless systems
- Small classes ensure individual attention
- Highly qualified, full-time faculty has industry experience
- There is a focus on diversity, equity and a safe learning environment
- The program includes a work term during the summer between second and third year

EDUCATIONAL PARTNERS

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

Our partners is:

- Griffith University, Australia

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) with a minimum of six Grade 12U, Grade 12M, OAC credits or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English 12U
- One from the following:
 - Math Grade 12U Advanced Functions
 - Math Grade 12U Calculus and Vectors
 - Math Grade 12U Mathematics of Data Management or equivalent

CO-OP REQUIREMENTS

- Minimum C grade in ENG-110.
- Minimum 2.0 GPA
- Minimum 80 per cent of year 1 and 2 courses required for COOP-221

TESTIMONIALS

"... Going through the applied degree at Centennial, I always had a bit of doubt as to how well it stacked up against programs at universities. The general feeling I got from other universities, and when I told people I was receiving a degree from Centennial, was that our degree was inferior and the education we received was substandard compared to other institutions. I can now tell you with 100 per cent confidence that not only is the applied degree at Centennial up to par with programs at universities, but I feel we are more well-rounded and better trained than the majority of students in our masters program. We are better disciplined, have better time management skills and can handle stressful situations much better than any of our classmates. We have classmates from all over the globe, which offers a true insight to worldwide education standards."

Brendan John Coffey, Graduate, 2007, International Masters of Business Administration student in Australia

"By taking this program, not only will we be able to find a job instantly, but we will also be able to move up the corporate ladder quickly."

Omar Washington, Graduate, 2007

Computer and Communication Networks (cont'd)

PROGRAM OUTLINE

Semester 1

NET-112	Computer Architecture
NET-110	Computer Network Fundamentals
ENG-110	English and Communication Skills
BUS-110	Fundamentals of Business and Management
MTH-110	Logic and Problem-solving Strategies
SWS-121	Website Design and Development

Semester 2

MTH-120	Discrete Mathematics 1
ECN-120	Economics
BUS-120	Financial Analysis
NET-120	LAN Switching and Routing
NET-111	Operating Systems Fundamentals
SWS-110	Programming Fundamentals

Semester 3

NET-210	WAN Technologies
PHL-110	Applied Ethics
SWS-213	Database Design & Modeling
BUS-111	Marketing of Services
NET-121	Network Operating Systems 1
MTH-110	Statistics & Research Methods

Semester 4

NET-221	Communication Technology
SWS-212	Database Driven Websites
COOP-221	Employment Preplacement
LIBELECT	Liberal Studies Elective
NET-211	Network Operating Systems 2
BUS-212	Organizational & Client Relationships
NET-220	Principles of Computer & Network

COOP-222

Work Term

Semester 5

LIBELECT	Liberal Studies Elective
NET-310	Network Management
BUS-310	Project Management 1
SWS-211	Systems Analysis & Design
NET-223	Voice Systems & Services
NET-222	Wireless Networks

Semester 6

NET-320	Advanced Switching & Routing
BUS-411	Entrepreneurship in the New Economy
LIBELECT	Liberal Studies Elective
PROELECT	Professional Elective
MTH-320	Quantitative Research Methods
NET-323	Voice/IP Convergence

Semester 7

NET-412	Applied Research Techniques & Methods
NET-410	Enterprise Network Design
NET-411	Integrated Project in Vertical Markets I
LIBELECT	Liberal Studies Elective
BUS-311	Management of Change & Innovation
PROELECT	Professional Elective

Semester 8

BUS-312	Business Consulting
NET-421	Integrated Project in the Vertical Markets II
LIBELECT	Liberal Studies Elective
NET-420	Networking: Advanced Troubleshooting
PROELECT	Professional Elective

Your choice of the following Professional/Liberal studies electives (please note that not all elective courses will be offered each semester):

Professional Electives

NET-801	Cryptography in Network Security
NET-802	Network Defense and Counter Measure
NET-803	Computer Forensics
NET-901	Programming for Wireless Devices
NET-902	Cellular Networks
NET-903	Wireless Broadband

Liberal Studies Electives

HIS-302	Canadian Studies
LIT-302	Propaganda Literature
PSY-301	Social Psychology
PSY-303	Consumer Psychology
PSY-304	Principles of Human Behavior
PHL-120	Science and Technology in Society
SOC-100	Caribbean Studies
MTH-350	Calculus with Applications

The curriculum presented here covers subject matter that is dynamic in nature and will be revised as appropriate to assure it retains its currency. Internal curriculum review is ongoing. As well, PEQAB (the Post-secondary Education Quality Assessment Board) has a well-established review process. The same rigorous external review process that was used to obtain degree approval will be used to review the program again in five years.

At A Glance

Program graduates will be prepared to work as:

- Project management analysts
- IT program managers
- Technical account managers
- Business account managers
- Network administrators
- Network analysts
- Network support



Software Systems Design

Program Code: 0103

Program Length: 4 years/9 semesters

Credential: Bachelor of Applied Information Sciences Degree

Start: Fall

Campus: Progress

sws@centennialcollege.ca

416-289-5000, ext. 3556

Program Overview

Specialize in Software Systems Design and be one of a select group of Ontario students to receive a four-year bachelor's degree in Applied Information Sciences. North America has a critical need for highly specialized software designers and Centennial College was selected by the Ministry of Training, Colleges and Universities to deliver a program to address this demand.

The only of its kind in the province, the program has a unique focus on system design, a blend of technology and business subjects as well as industry placement. It also provides specialization in mobile application development or service-oriented architecture and cloud computing. The program places emphasis on advanced software standards and management.

Software Systems: Design, Development and Management includes three software development projects. These real-world business applications will require students to utilize all the technical, systems and business skills acquired during their studies to build higher quality software.

Fast forward to the bridging option, page 178.

BENEFITS

PROGRAM HIGHLIGHTS

- All courses are offered at Centennial's Progress campus
- The state-of-the-art laboratories are specially engineered for the curriculum
- You can specialize in mobile application development or service oriented architecture and cloud computing
- Small classes ensure individual attention
- Highly qualified full-time faculty has industry experience
- There is a focus on diversity, equity and a safe learning environment
- The program includes a co-op work term during summer between second and third year

EDUCATIONAL PARTNERS

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

Our partners are:

- Athabasca University
- Northwood University
- St. Mary's University
- The University of Lethbridge
- University of New Brunswick
- Griffith University, Australia
- Southern New Hampshire University, U.S.A.

ADMISSION REQUIREMENTS

ELIGIBILITY

- Ontario Secondary School Diploma (OSSD) with a minimum of six Grade 12U, Grade 12M, OAC credits or equivalent, or mature student status (19 years or older)

ACADEMIC REQUIREMENTS

- English 12U
- One from the following:
 - Math Grade 12U Advanced Functions
 - Math Grade 12U Calculus and Vectors
 - Math Grade 12U Mathematics of Data Management or equivalent

CO-OP REQUIREMENTS

- Minimum C grade in ENG-110
- Minimum 2.0 GPA
- Minimum 80 per cent of year 1 and 2 courses required for COOP-221

You may be eligible to complete this degree in two years

If you have a Computer Programmer/Analyst diploma from an Ontario community college or similar program from another college/university, you may be eligible to obtain this Bachelor of Applied Information Sciences degree in two years. For more information, please contact the ICET department (see phone number above or e-mail sws@centennialcollege.ca).

Software Systems Design (cont'd)

PROGRAM OUTLINE

Semester 1

NET-112	Computer Architecture
ENG-110	English and Communication Skills
BUS-110	Fundamentals of Business and Management
MTH-110	Logic and Problem-solving Strategies
SWS-110	Programming Fundamentals
SWS-121	Website Design and Development

Semester 2

MTH-120	Discrete Mathematics 1
ECN-120	Economics
BUS-120	Financial Analysis
SWS-120	Object Oriented Programming
NET-111	Operating Systems Fundamentals
PHL-120	Science & Technology in Society

Semester 3

PHL-110	Applied Ethics
SWS-210	Data Structures and Algorithms
SWS-213	Database Design & Modeling
BUS-111	Marketing of Services
MTH-210	Statistics & Research Methods
SWS-211	Systems Analysis & Design

Semester 4

NET-311	Data Communications and Networks
SWS-212	Database Driven Websites
COOP-221	Employment Preplacement
SWS-221	Internet Programming
LIBELECT	Liberal Studies Elective
PHL-401	Logical Self Defence
SWS-220	Object Oriented Analysis & Design

COOP-222

Work Term

Semester 5

SWS-314	Computer and Human Interaction
SWS-312	Database Programming
LIBELECT	Liberal Studies Elective
SWS-311	Programming for Network Systems
BUS-310	Project Management 1
SWS-310	Software Standards, Testing & Maintenance

Semester 6

SWS-322	Architecting Database Solutions
MTH-220	Discrete Mathematics 2
BUS-411	Entrepreneurship in the New Economy
SWS-321	Software Design Patterns
SWS-320	Software Development Project 1
SWS-223	Technical Writing and Documentation

Semester 7

SWS-422	Emerging Technologies
LIBELECT	Liberal Studies Elective
PROELECT	Professional Elective
BUS-410	Project Management 2
SWS-410	Software Development Project 2
SWS-411	Software Quality Assurance

Semester 8

BUS-312	Business Consulting
SWS-421	Cryptography and Information Security
LIBELECT	Liberal Studies Elective
PROELECT	Professional Elective
SWS-420	Software Development Project 3

Your choice of the following Professional/Liberal studies electives (please note that not all elective courses will be offered each semester):

Professional Electives: Service Oriented Architecture

SWS-801	Service Oriented Architecture 1
SWS-802	Service Oriented Architecture 2

Professional Electives: Wireless Systems Design

SWS-901	Wireless Systems Design 1
SWS-902	Wireless Systems Design 2

Liberal Studies Electives

HIS-302	Canadian Studies
SOC-100	Caribbean Literature
LIT-302	Propaganda Literature
MTH-350	Calculus with Applications
PHL-120	Science & Technology in Society
PSY-301	Social Psychology
PSY-303	Consumer Psychology
PSY-304	Principles of Human Behavior

Please note that the curriculum presented here covers subject matter that is dynamic in nature and will be revised as appropriate to assure it retains its currency. Internal curriculum review is ongoing. As well, PEQAB (the Postsecondary Education Quality Assessment Board) has a well-established review process. The same rigorous external review process that was used to obtain degree approval will be used to review the program again in five years.

TESTIMONIALS

"The unique curriculum proposed by Centennial will produce highly trained IT professionals with sound technical skills, a strong understanding of business, project management and excellent communication skills."

Software Human Resource Council

"Centennial's bachelor's degree in Software Systems Design ... will go a long way in contributing to meet this need for skilled people who can design, build, install, service and create future information technology applications."

Information Technology Association of Canada

At A Glance

Program graduates will be prepared to work as:

- Software developers
- Software engineers
- Systems analysts
- Business analysts
- Web application developers
- IT project managers
- Computer programmers/analysts

Nursing (BScN)

Program Code: 9250

Program Length: 4 years/8 semesters

Credential: Bachelor of Science in Nursing

Start: Fall

Campus: Morningside

Program Overview

The Bachelor of Science Nursing program is committed to creating nursing leaders who are highly competent, knowledgeable and committed to playing an integral role in shaping the future of healthcare. You will be prepared to work with persons and communities of diverse backgrounds, ages and degrees of health and illness, in a variety of contexts.

The program is offered in partnership with Ryerson University, Centennial College and George Brown College. You will complete your first two years at Centennial and the final two years at Ryerson. Faculty will be from both college and university.

The curriculum has five themes, which are reflected in all years of the program at varying levels. The themes are: primary healthcare/health promotion; reflective practice/critical thinking; meaningful relationships/caring/communication; political/social justice; and personal/professional development.

You will be required to complete professionally-related courses in areas such as anatomy and physiology, nutrition, ethics, psychology and sociology. You will also take a series of required and elective courses, selected from other disciplines, to enhance and support the broad knowledge base required of professional nurses.

BENEFITS

PROGRAM HIGHLIGHTS

- Students graduate with a degree
- A mentorship program and peer tutoring are offered
- The opportunity exists for small group instruction in clinical and laboratory settings
- Experienced, caring faculty members ensure that students are learning from professionals
- Clinical placement gives students the advantage of being able to network and make employment contacts
- State-of-the-art nursing labs are available for independent and scheduled practice



CAREERS

Graduates of the Ryerson, Centennial, George Brown Collaborative Nursing Degree program are eligible to write the College of Nurses of Ontario registration examination to receive Registered Nurse designation and accept entry-level positions in a variety of settings where nursing is practiced.

ADMISSION REQUIREMENTS

- O.S.S.D. with six Grade 12 U/M courses including Grade 12 U English, Biology (SBI4U), Chemistry (SCH4U), and Grade 11 U or M or Grade 12 U Mathematics (one of Functions and Applications (MCF3M), Functions and Relations (MCR3U), Advanced Functions (MHF4U), Calculus and Vectors (MCV4U), Mathematics of Data Management (MDM4U).

NOTES

1. ENG4U/EAE4U is the preferred English.
2. The minimum grade(s) required in the subject prerequisites (normally in the 65-70 percent range) will be determined subject to competition.
3. Applicants applying as 'Mature Students' must have Grade 12 U courses (or equivalent) in English, Biology and Chemistry, and Grade 11 U or M or higher Mathematics. The minimum grade(s) required in the subject prerequisites (normally in the 65-70 percent range or higher) will be determined subject to competition.
4. Students are required to obtain a Heart and Stroke Foundation of Ontario Basic Cardiac Life Support Certificate prior to enrollment and are responsible for maintaining this certification throughout the program.

5. Applicants who possess only the required OSSD and who are not 'Mature Students' and have Grade 12 U courses in English, Chemistry and Biology as well as Grade 11 U or M or higher Mathematics (with grades in the range of 65-70 percent as indicated above), will be considered if they have:

- Additional Grade 12 U, M courses and/or
- Successful completion of a year-long college course or two one-semester college courses and/or
- Successful completion of a year-long university course or two one-semester university courses.

6. Applicants who possess the noted OSSD and the Grade 12 U or M courses as noted above, excluding the additional college/university course(s) and who are not 'Mature Students' but can demonstrate their ability to succeed in the program will be considered using a combination of the following evaluation methods:
 - interview;
 - resumé;
 - portfolio of work experience;
 - challenge examination;
 - high school transcript reflecting a consistent standard of achievement ('B' grades or higher).
7. Pre-admission testing may be required in one or more of the above areas.
8. Applicants who have been absent from full-time formal education for a period of ten years or longer may be required to repeat prerequisite subjects to ensure currency of knowledge and preparedness for the program.
9. Subject to competition, candidates may be required to present averages/grades above the minimum.

Nursing (BScN) (cont'd)

ADDITIONAL NURSING PROGRAM REQUIREMENTS

1. In compliance with requests from our clinical placement partners, all students in the Collaborative Nursing Degree program are required to have completed an annual criminal reference/police check. These reference checks are done to protect clientele who are considered 'vulnerable persons'. The majority of students will receive a 'clear' police check; some will have a 'not clear' police record.

A 'clear' police check means that there was currently no police record found for that individual in the jurisdiction surveyed. A 'not clear' police check means that there is a police record found for the individual for an undisclosed reason.

Students are required to keep the original copy of their criminal reference/police check. The placement agency will be provided with the names of all students proposed for placement at that agency who have received a 'not clear' police check. As we are not aware of the reason for a 'not clear' police check, the reason for lack of clearance will not be divulged to the agency as this information is not part of the check.

It is the agency that will then make the decision whether or not to accept the student for placement. This agency decision may require the student to self-disclose the particulars of the 'not clear' police check. Students will have the right to not disclose the particulars of the 'not clear' police check. Students denied placement by the agency on the grounds of a 'not clear' police check will not be able to complete their practice placement.

STUDENTS WHO ARE NOT ELIGIBLE TO ATTEND THEIR PRACTICE PLACEMENT DUE TO A 'NOT CLEAR' STATUS WILL JEOPARDIZE THEIR PROGRESS IN THE PROGRAM.

Students who fail to meet the above requirements will not be permitted to begin their nursing practice courses and will be subject to academic penalties. International students who are applying will need to retain a copy of the police clearance that is done at the time of their application for a study permit.

Students who live in the City of Toronto and the Region of York may obtain an application form from the placement office, Ryerson Daphne Cockwell School of Nursing. Students who live in other municipalities or provinces may obtain the application from their local police agency.

2. In accordance with the policy of the Collaborative Degree program, and in order to comply with the Public Hospitals Act, other legislation and to meet the requirements of the nursing practice placement settings utilized by the program, the Practice Requirements Record must be completed in its entirety by your health care provider.

3. All nursing students, in order to practice nursing, must be active participants, working with and providing care to diverse populations inclusive of male, female, and transgender individuals. Students who are unable to meet this requirement will jeopardize their progress in the program.

All nursing students must be clean-shaven in order to be fitted so that the mask attains a proper seal. At any time during clinical placements, if students are required to wear their Certified Safety Respirator Mask, at that time they must remove any facial hair. Additionally, in order for mask fit testing to be conducted effectively, nursing students must remove any clothing covering their face and have their face exposed during testing and at any time during a clinical placement when students may be required to wear their Certified Safety Mask.

4. Students are also responsible for obtaining CPR-Level HCP certification. Standard First Aid is recommended. The completion of all the above mentioned documentation and annual updating of the Immunization Passport is the responsibility of each student for the duration of their studies within the Nursing Collaborative Program. Instructions will be provided upon acceptance.

5. Before undertaking this program, students should be aware that, under the provisions of the Regulated Health Profession and Nursing Acts, to qualify to write the College of Nurses registration exams they must:

- be a Canadian citizen, permanent resident of Canada or be authorized under the Immigration Act (Canada);
- not have any criminal convictions including those under the Narcotic Control and Food and Drugs Acts;
- not have been the subject of proceedings with respect to professional misconduct, incompetence or incapacity in another health profession in Ontario, or in nursing in another jurisdiction;
- not be suffering from a mental or physical disorder which makes it desirable in the public interest that you not practice.

PROGRAM OUTLINE

Semester 1

BLG-10A
NSE-13A
ELECT A
NSE-12A
FNN-111
PSY-102
NSE-11A
Anatomy and Physiology
Assessment of the Healthy Individual
Liberal Studies Elective Group A
Nursing Practice I
Nutrition for Nursing Practice
Psychology: The Science of Behaviour
Theoretical Foundations of Nursing

Semester 2

BLG-10B
NSE-13B
PSY-302
NSE-12B
NSE-112
Perspectives
NSE-11B
Anatomy and Physiology
Assessment of the Healthy Individual
Child Development
Nursing Practice I
Social, Political and Economic
Theoretical Foundations of Nursing

Semester 3

PSY-402
NSE-21A
ELECT A
PAT-20A
NSE-22A
NUR-80A
Adult Development
Concepts, Individual and Family
Liberal Studies Elective Group A
Nursing Implications
Nursing Practice II+
Research Design, Measurement, Apps.

Semester 4

NSE-21B
ELECT A
PAT-20B
NSE-22B
NUR-80B
SOC-104
Concepts, Individual and Family
Liberal Studies Elective Group A
Nursing Implications
Nursing Practice II
Research Design, Measurement, Apps.
Understanding Society

Semester 5

NSE-31A
PHL-302
ELECT B
NSE-32A
ELECT1
Community Health Nursing
Ethics and Health Care
Liberal Studies Elective Group B
Nursing Practice III
Professionally-Related Elective Table 1

Semester 6

NSE-31B
NSE-306
ELECT B
NSE-32B
ELECT1
Community Health Nursing
Leadership and Change
Liberal Studies Elective Group B
Nursing Practice III
Professionally-Related Elective Table 1

Semester 7

ELECT B
NSE-417
NSE-407
ELECT1
Liberal Studies Elective Group B
Nursing Practice IV
Professional Issues and Trends
Professionally-Related Elective Table 1

Semester 8

NSE-418
ELECT 2
Nursing Practice V
Professional Elective

** Not all courses are available each semester.*

+ This course is graded on a pass/fail basis. A PSD grade has no numerical value and is not included in a student's grade point average; a failure is graded as an "F" and is included in a student's grade point average.

Nursing (BScN) (cont'd)

LIBERAL STUDIES ELECTIVES (A)

Caribbean Studies

Introduction to the Caribbean (F/W) CRB-100

Economics

Canadian Economic History (F) ECN-105
The Economics of Markets (F) ECN-110
European Economic History (W) ECN-205
Inflation, Unemployment in Canada (W) ECN-210
The Economics of Human Behaviour (F) ECN-340
Booms, Busts, Panics and Manias (W) ECN-440

English

Laughter and Tears: Comic & Tragic Modes (F) ENG-101
What's The Story? (F) ENG-104
Zap, Pow, Bang: Pop. Lit. (F) ENG-112
The Hero's Journey: Myth and Archetype (W) ENG-201
Within & Without: The New Literature of Immigration (W) ENG-204
Cultures in Crisis (W) ENG-212
Language and Identity (F/W) LNG-100
Language and Public Life (F/W) LNG-200

French (F/W)

A French course to be determined by test and interview

Geography

Interpreting Human Environments: I (F) GEO-106
Geographical Issues in the Post-Industrial Age I (F) GEO-108
Interpreting Human Environments: II (W) GEO-206
Geographical Issues in the Post-Industrial Age II (W) GEO-208
Viva Las Vegas (F) GEO-312

History

World Turned Upside Down: Europe 1350-1776 (F) HST-111
Fact and Fiction: History Through Film I (F) HST-119
Century of Revolution: Europe 1789-1914 (W) HST-211
Fact and Fiction: History Through Film II (W) HST-219
Canada to 1867: The Founding Societies (F) HST-307
History of Science and Technology I (F) HST-325
Canada from 1867: The Struggle for Identity (W) HST-407
History of Science and Technology II (W) HST-425
Intro. to World Art I: Pictorial Arts (F) IRL-100
Understanding Crime in Canadian Society (F) JUS-101

Music

Intro. to World & Early European Music (F) MUS-101
Introduction to Classical Music (W) MUS-201

Philosophy

Plato and the Roots of Western Philosophy (F) PHL-101
Philosophy of Religion (F) PHL-110
Problems in Philosophy (W) PHL-201
Critical Thinking (W) PHL-214
Contemporary Moral Issues I (F) PHL-306
Contemporary Moral Issues II (W) PHL-406

Physics

Introduction to Astronomy (F/W) PCS-181

Politics

The Politics of Human Needs (F) POL-106
Politics and Film (F/W) POL-128
Immigration and the Canadian Experience (W) POL-129
The Globalization of World Politics (W) POL-208

Sociology

Human Origins (W) SOC-102
Popular Culture (F/W) SOC-202
Social Class and Inequality (F/W) SOC-203

Spanish (F/W)

A Spanish course to be determined by test and interview.
Theatre and the Canadian Identity (F) THL-100

Note: F=Fall, W=Winter

Additional notes:

1. Not all courses will be offered each semester to all students. See the Chair of the appropriate department to check availability of courses.
2. Restrictions may change from year to year depending on curricular changes.
3. Nursing (NRSE/RNDC/RNDG/RNDR)-SOC-103 is not available for credit.
4. Students can take only two semesters of each of philosophy and sociology for credit.
5. Psychology courses are not available for credit.

PROFESSIONALLY-RELATED ELECTIVES (B)

Students must complete three one-term courses (or equivalent):

DISABILITY STUDIES: Mad People's History DST-504
ENTREPRENEURSHIP: New Venture Startup ENT-500
FAMILY SUPPORTS: Community Economic Development: The Canadian Health System I FLE-500
HEALTH SERVICES MGT: Work for Community Services HSM-315
HEALTH SERVICES MGT: The Canadian Health System II HSM-316
INTERDISC. STUDIES: Program Planning and Evaluation Strategies INT-900
INTERDISC. STUDIES: Gerontology: Critical Issues and Future Trends INT-901
INTERDISC. STUDIES: Disability Issues INT-902
INTERDISC. STUDIES: Conflict Resolution and Dispute Negotiation INT-905
INTERDISC. STUDIES: Politics of Sexuality: Power & Pleasure INT-906
INTERDISC. STUDIES: Team Work for Community Services INT-907
INTERDISC. STUDIES: Homelessness in Canadian Society INT-908
INTERDISC. STUDIES: Participatory Development Communication INT-909
INTERDISC. STUDIES: First Nations Issues INT-910
INTERDISC. STUDIES: International Community Development INT-911
INTERDISC. STUDIES: Community Development International Field Experience INT-912
JUSTICE: Violence, Victims and the Justice System JUS-601

HUMAN RESOURCES: Organizational Behaviour and Interpersonal Skills MHR-405
HUMAN RESOURCES: Organizational Behaviour II MHR-505
HUMAN RESOURCES: Industrial Relations MHR-522
HUMAN RESOURCES: Human Resources Management MHR-523
HUMAN RESOURCES: Recruitment and Selection MHR-623
OCCUPATIONAL HEALTH: Occupational Health & Safety Law Canadian Public Admin. OHS-208
OCCUPATIONAL HEALTH: Occupational Health OHS-508
PHILOSOPHY: Health Care and Distributive Justice PHL-602
POLITICS: Power and Influence in Canadian Politics POL-302
POLITICS: Political Conflict in Canada POL-402
PSYCHOLOGY: Death, Dying and Bereavement PPA-322
POLITICS: People Policy & Money: Public Admin. PPA-422
POLITICS: Issues in Equity and Human Rights PPA-521
POLITICS: Public Policy PPA-623
PSYCHOLOGY: Psychological Disorders PSY-040
PSYCHOLOGY: Psychology of Work PSY-204
PSYCHOLOGY: Environmental Psychology PSY-217
PSYCHOLOGY: Research Methods: Computerized Applications PSY-711
POLITICS: Understanding PSY-802
PSYCHOLOGY: Adjustment, Stress and Coping PSY-805
PSYCHOLOGY: Behaviour Modification PSY-806
PSYCHOLOGY: Community Psychology PSY-808
SOCIOLOGY: Canadian Families in a Changing World SOC-021
SOCIOLOGY: Women, Power and Change SOC-028
SOCIOLOGY: Sociology of Health SOC-031
SOCIOLOGY: The Sociology of Diversity SOC-300
SOCIOLOGY: The City and Society SOC-302
SOCIOLOGY: Sociological Perspectives on Crime SOC-319
SOCIOLOGY: Violence and the Family SOC-502
SOCIOLOGY: Media and Images of Inequality SOC-525
SOCIOLOGY: Globalization and Health SOC-600
SOCIOLOGY: Work and Families in the 21st Century SOC-606
SOCIOLOGY: Men and Masculinities in the 21st Century SOC-700

At A Glance

Graduates of the Ryerson, Centennial, George Brown Collaborative Nursing Degree program are eligible to write the College of Nurses of Ontario registration examination to receive registered nurse designation and accept entry-level positions in a variety of settings where nursing is practiced.

Combine the Best in University and College Education

Centennial College and the University of Toronto Scarborough joint programs give students the critical thinking, analytical and technical skills needed to succeed in today's knowledge-based economy. Through specialized offerings in new media, paramedicine, journalism, applied microbiology and environmental science and technology students benefit from exceptional faculty at the forefront of their fields and real experience in cutting-edge environments. Graduates learn more while saving time and money en route to a University of Toronto degree and a Centennial College diploma or certificate. Get a head start on your career today with a Centennial College and University of Toronto Scarborough joint program.

ENVIRONMENTAL SCIENCE & TECHNOLOGY

Students in Environmental Science & Technology can earn an Honours Bachelor of Science degree and an Ontario College Advanced Diploma while learning from leading academics and professionals. Grounded in the fundamentals of the physical sciences, the program focuses on the critical thinking, research, laboratory skills and field experience required to address today's challenging environmental issues. Students master the science behind environmental degradation and learn strategies to protect the planet from water, air and soil pollution, as well as climate change, resource depletion and species extinction. Graduates are ready for a broad range of careers in industry, government, research and teaching.

For more program content and course information contact program coordinator, Carol Preston at Centennial: cpreston@centennialcollege.ca or Mandy Meriano, UTSC Program Supervisor: mmeriano@utsc.utoronto.ca

APPLIED MICROBIOLOGY (FORMERLY INDUSTRIAL MICROBIOLOGY)

Students in Applied Microbiology can earn an Honours Bachelor of Science degree and an Ontario College Advanced Diploma while learning from leading academics and professionals. Grounded in the fundamentals of biology, the program focuses on the critical thinking, research, laboratory skills and experience required to set the standard for today's consumer products. Students examine genetic manipulation, quality assurance, control and safety factors, and test and evaluate everyday goods to understand their impact on human health. Graduates leave ready for careers in the laboratory or in product development, production and sales management in a variety of sectors including pharmaceuticals, cosmetics, food, government and environmental agencies.

For more program content and course information contact Program Supervisor of Studies: Prof. Shelley Brunt at UTSC: brunt@utsc.utoronto.ca or Allan Richardson at Centennial: arichard@centennialcollege.ca

JOURNALISM

Students in the Joint Journalism Program can earn an Honours Bachelor of Arts degree and an Ontario College Advanced Diploma while learning from leading academics and professionals.

Students take academic studies at the University of Toronto Scarborough and applied, professional courses at the college's Centre for Creative Communications in East York. Throughout the three college semesters the focus is on multiplatform and social media skills. Students learn to tell stories for the web and on tablet and cell phone screens. Graduates take with them a portfolio demonstrating experience gained from producing a real community newspaper and online publications. The college part of the program includes a 15-week field placement.

For more program content and course information contact Jeffrey Dvorkin, UTSC Program Director: jeffrey.dvorkin@utoronto.ca or Ted Fairhurst at Centennial: TFairhurst@centennialcollege.ca

NEW MEDIA STUDIES

Students in New Media can earn an Honours Bachelor of Arts degree and an Ontario College Certificate while learning from leading academics and professionals. The program focuses on the critical thinking, research, design and communications skills and experience needed to analyze the impact of media on culture today. Students master the techniques necessary to transform the world in a knowledge-driven society. Graduates take with them a portfolio demonstrating their creative abilities and academic expertise and are ready for careers in any organization requiring creative thinking in media and communication.

For more program content and course information contact Program Supervisor of Studies: Michael Petit, UTSC Program Supervisor: mepetit@utsc.utoronto.ca or Marie José Crete at Centennial: mcrete@centennialcollege.ca

PARAMEDICINE

Students in Paramedicine earn an Honours Bachelor of Science degree and an Ontario College Diploma while learning from leading academics and professionals. Unique in Canada, the program is grounded in the fundamentals of life science and focuses on the critical thinking, research and laboratory experience needed to save lives. Students examine and are immersed in the spectrum of emergency medical, trauma and psychological situations faced by today's health care professionals. The program prepares students for the Ontario Ministry of Health Advanced Emergency Medical Care Attendant (AEMCA) exam and positions graduates for advanced careers in the field of emergency medical services.

For more program content and course information contact: Stephen Reid, UTSC Program Coordinator: sgreid@utsc.utoronto.ca or Walter Tavares at Centennial: wtavares@centennialcollege.ca

Joint Programs with the University of Toronto at Scarborough¹

- Applicants must be eligible to receive the Ontario Secondary School Diploma (OSSD)
- Applicants must present a minimum six grade 12 courses suffixed 4U or 4M
- One credit must be ENG4U – English¹
- Applicants must satisfy any prerequisites of specific programs, disciplines or courses in which they intend to enroll
- Discipline prerequisites must be at the grade 12 4U level unless otherwise specified

OUAC Application Code	Name	Potential Credential Awarded	Required Courses	Additional Admission Requirement
Not direct entry from high school. Minimum of one year of post-secondary studies required TSP	Environmental Science & Technology*	Honours Bachelor of Science and Ontario College Advanced Diploma	ENG4U English MHF4U Advanced Functions MCV4U Calculus and Vectors SCH4U Chemistry SPH4U Physics SBI4U Biology Recommended	
Not direct entry from high school. Minimum of one year of post-secondary studies required. TSL	Applied Microbiology*	Honours Bachelor of Science and Ontario College Advanced Diploma	ENG4U English MHF4U Advanced Functions SCH4U Chemistry MCV4U Calculus and Vectors SBI4U Biology Recommended	
TSJ	Journalism	Honours Bachelor of Arts and Ontario College Advanced Diploma	ENG4U English	
Not direct entry from high school. Minimum of one year of post-secondary studies required TSK	New Media Studies*	Honours Bachelor of Arts and Ontario College Certificate	ENG4U English	
TSI	Paramedicine	Honours Bachelor of Science and Ontario College Diploma	ENG4U English MC4U Calculus and Vectors MHF4U Advanced Functions SCH4U Chemistry SBI4U Biology Recommended	By the end of the first session of the Paramedicine course, students must complete the following requirements: <ul style="list-style-type: none"> • Medical doctor's statement certifying a standard of health acceptable to clinical agencies outlined in the Ambulance Act • Class G driver's licence; a class F licence is required before enrolling in the second year (third year of program) at Centennial College • Completion of CPR (Basic Rescuer level) course • Standard First Aid Certification • Lifting fitness test • Clear criminal record check

*Not direct entry from high school, minimum on one year of post-secondary studies required.

¹For details on application and admission to the University of Toronto Scarborough/Centennial College Joint Degree programs, please visit the UTSC website at: <http://www.utsc.utoronto.ca/>

Application to Centennial College/UTSC joint programs is made by applying to UTSC through the Ontario Universities' Application Centre (OUAC).
Application can be made online through the OUAC website at www.ouac.on.ca

Ontario Universities' Application Centre
170 Research Lane, Guelph ON N1G 5E2
Phone: 519-823-1940 • Fax: 519-823-5232 • <http://www.utsc.utoronto.ca/~jtprogs/>