

ARTS AND SCIENCE – UNIVERSITY TRANSFER (ASU)

About the Program

This two-year diploma program enables you to pursue a university education in the sciences and complete a diploma and a university degree in as little as four years at the University of Toronto (St. George or Scarborough), York University, or Trent University. Courses include Math, Chemistry, Biology, Physics, and a range of Humanities and Social Sciences.

Credential Awarded

Ontario College Diploma

Duration

4 Semesters (2 Years)

Starts

January, September

Program and Course Delivery

This program is offered in person. Students are required to come on campus to attend classes.

Your Career

This program enables you to directly transfer to an Honours Bachelor of Science university degree program at one of our partner universities.

You may transfer to:

- University of Toronto St. George
- University of Toronto Scarborough
- York University
- Trent University

Interested in completing a Bachelor of Arts? See our Liberal Arts University Transfer (<https://www.senecapolytechnic.ca/programs/fulltime/LAT.html>) program.

Program of Study

Course Code	Course Name	Weekly Hours
Semester 1		
BIO358	Biology I	6
COM101	Communicating Across Contexts	3
or COM111	Communicating Across Contexts (Enriched)	
MTH358	Functions and Relations	4
PSY191	Foundations of Psychology I	3
YKC100	Critical Thinking I	3
Semester 2		
ARW250	Academic Research and Writing	3
BIO359	Biology II	6
MTH458	Calculus I	5
PSY291	Foundations of Psychology II	3

YKC200	Critical Thinking II	3
Semester 3		
CHM358	Chemistry I	6
MTH459	Calculus II	5
PHY358	Physics I	6
SCL191	Introduction to Sociology I: Social Inequality	3
YKL100	Introduction to World Literature I	3
Semester 4		
CAN604	A Social History of Canada	3
CHM359	Chemistry II	6
PHY359	Physics II	6
SCL291	Introduction to Sociology II: Social Inequality	3
YKL200	Introduction to World Literature II	3

Program Learning Outcomes

This Seneca program has been validated by the Credential Validation Service as an Ontario College Credential as required by the Ministry of Colleges and Universities.

As a graduate, you will be prepared to reliably demonstrate the ability to:

- Develop laboratory skills to systematically explore phenomena in the natural world.
- Use evidence-based practices to develop and defend arguments in the humanities and social sciences.
- Describe how the scientific method is used to investigate complex problems in the natural sciences.
- Use written, verbal, and digital communication tools and strategies to disseminate information for a variety of purposes.
- Employ scientific terminology and concepts to describe natural phenomena.
- Describe the development of western thought in a global context and relate to the modern world.
- Question cultural norms in order to develop a personal world view in relation to others.

Admission Requirements

- Ontario Secondary School Diploma (OSSD) or equivalent with:
 - Grade 12 English: ENG4(C) or ENG4(U)
 - Grade 12 Mathematics: (C) or (U) or Grade 11 Mathematics: (U) or (M)

Canadian citizens and permanent residents may satisfy the English and/or mathematics requirements for this program through successful Seneca pre-admission testing. (<https://www.senecapolytechnic.ca/registrar/canadian-applicants/admission-requirements/mature-applicants.html>)

Recommended upgrading for applicants who do not meet academic subject requirements (<https://www.senecapolytechnic.ca/registrar/canadian-applicants/admission-requirements/upgrading-options.html>).

Notes

Although not required for admission, the following courses are recommended for success in the program:

- Grade 12 Mathematics: MCV4U Calculus and Vectors, MHF4U Advanced Functions, or MCT 4C Mathematics for College Technology

International Student Information

International admissions requirements vary by program and in addition to English requirements (<https://www.senecapolytechnic.ca/international/apply/how-to-apply/admission-requirements/english-requirements.html>), programs may require credits in mathematics, biology, and chemistry at a level equivalent to Ontario's curriculum, or a postsecondary degree or diploma, equivalent to an Ontario university or college. Program-specific pre-requisite courses and credentials are listed with the admission requirements on each program page. To review the academic

requirements please visit: Academic Requirements - Seneca, Toronto, Canada ([senecapolytechnic.ca](https://www.senecapolytechnic.ca)) (<https://www.senecapolytechnic.ca/international/apply/how-to-apply/admission-requirements/academic-requirements.html>).

Pathways

As a leader in academic pathways, we offer a range of options that will allow you to take your credential further in another Seneca program or a program at a partner institution.

To learn more about your eligibility, visit the Academic Pathways (<https://www.senecapolytechnic.ca/pathways.html>) web page.

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