

# COSMETIC SCIENCE (CSPC)

## About the Program

The Cosmetic Science program is the only one-year laboratory-based graduate certificate of its kind in Ontario. This program enables you to combine your knowledge of science with art and business aspects to develop cosmetic and personal care products. As part of this program, you will focus on various aspects of formulation, including leveraging chemistry concepts to understand formulation from raw materials to finished products. You will have the opportunity to use industry-relevant equipment to create products and develop an in-depth understanding of the industry's evolving regulatory landscape. The program also explores additional key topics including the product development process, sales and marketing, global regulations/challenges, quality and biological systems.

To further support career exposure and industry experience, you will also have the opportunity to participate in an optional work term after successful completion of your first academic semester in the program.

## Credential Awarded

Ontario College Graduate Certificate

## Duration

2 Semesters (1 Year)

## Starts

May, September

## Program and Course Delivery

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

## Skills

Throughout this program you will develop the following skills:

- Apply the cosmetic development process to manufacture and market a product
- Formulate various cosmetic products to include sensory modifications
- Analyze products to ensure they meet regulatory requirements for sale
- Create product evaluation strategies for safety and product life
- Develop an entrepreneurial mindset to succeed in the cosmetics industry

## Work Experience

### Optional Work Term

This program offers the option to complete a work term, providing valuable hands-on experience in your field of study.

Students who select the work term stream will have the opportunity to participate in a work term(s) if eligibility requirements are maintained. Students will have the flexibility to transfer to the non-work term stream at any time. The work term(s) is similar in length to an academic semester and is typically a full-time position that may be paid or unpaid. The work term job search is student-driven and participation in the work term stream does not guarantee that a work position will be secured. However,

students will receive guidance and support through in-class career workshops and one-on-one coaching to help prepare for the work term.

Review eligibility requirements for work-integrated learning (<https://www.senecapolytechnic.ca/employers/seneca-works/work-integrated-learning/eligibility.html>)

## Your Career

Graduates of the program can explore the following career options:

- Research and development chemist
- Cosmetic formulation chemist
- Regulatory affairs associate
- Quality assurance associate
- Technical sales associate
- Product development coordinator

## Program of Study

Course Code	Course Name	Weekly Hours
<b>Semester 1</b>		
CSP102	Product Evaluation and Biological Targets	4
CSP103	Pigments, Powders and Poured Products	7
CSP104	Formulation I	5
CSP105	Regulations and the Cosmetic Industry	3
CSP111	Raw Materials	5
WTP100	Work Term Preparation *	1
<b>Work-Integrated Learning Term</b>		
CSP441	Cosmetic Science, Work Term *	30
<b>Semester 2</b>		
CSP106	Formulation II: Advanced Concepts	5
CSP107	Fragrances	2
CSP108	Actives	2
CSP109	Product Development, Marketing and Sales	3
CSP110	Capstone Project: Rouge	5
PQA713	Introduction to Cosmetic Quality Assurance	3

\* Work-Integrated Learning option only

## 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:

- Apply the steps of the cosmetic development process to be able to navigate the decision making required to formulate, manufacture and market a cosmetic product.
- Utilize concepts of functional classes of raw materials in sourcing and selection of ingredients for synthetic, natural and organic cosmetic products.

- Modify cosmetic formulations to achieve stable products with prescribed sensory properties.
- Analyze a finished product against regulatory requirements to ensure compliance for sales and marketing in global jurisdictions.
- Summarize current literature of product components and packaging to communicate ethical, health and environmental concerns to relevant stakeholders.
- Construct an appropriate product evaluation strategy for claims substantiation, safety and shelf life documentation.

## Admission Requirements

- Ontario university or college degree or three-year college diploma or equivalent in biochemistry, pharmacy, chemistry, biotechnology, chemical engineering, pharmaceutical manufacturing or a related field of study.
- English proficiency (<https://www.senecapolytechnic.ca/registrar/canadian-applicants/admission-requirements/english-proficiency.html>) for graduate certificates

Canadian citizens or permanent residents educated outside of Canada must provide a World Education Services (WES) or ICAS Canada credential evaluation.

## 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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