

**EXPERIENCE  
UNIVERSITY**

FOR GRADE 7-12 STUDENTS

**2020**

**Summer Enrichment  
Experience @ Queen's  
(SEEQ) Program  
Course Descriptions**



[esu.queensu.ca](http://esu.queensu.ca)



(Alphabetical by grade range)

*\*All courses and instructors are subject to change*

## OPEN COURSES | GRADE 8 -12

### Beginner Conversational Spanish: Beyond ¡hola, amigos!

#### **Course Description**

Did you know that Spanish is the second most widely spoken language in the world and the third most used language in the online world? Whether you are planning your next vacation, interested in doing work or research in a Spanish-speaking country, or thinking about studying global development, Latin America, or international business, learning the basics in Spanish is an asset. In this course, you will become comfortable and confident in the basics of Spanish, and be ready with a list of useful and common expressions to practice in conversational situations. You will also have the opportunity to learn about Spanish culture and customs. You do not need previous knowledge to take this course. Join us to strengthen your language skills and improve your career prospects!

#### **Instructor Biography**

**Carola** is a Spanish instructor and a graduate student in the Geography and Planning Department at Queen's University. A native of Peru, her research interests focus on indigenous autonomy and economic integration. Specifically, how indigenous peoples in the Amazon define their political autonomy, and how they participate in the neoliberal economy in a context of socioeconomic and cultural change for them. When she is not in the field in the Amazon or visiting family in Peru, she enjoys spending her summertime gardening, doing outdoor yoga, and sharing dinner with friends.

## Culture & Characters: 初学者中文

### Course Description

我是加拿大人。 wǒ shì jiā ná dà rén I am from Canada.

我说一点点中文。 wǒ shuō yī diǎn diǎn zhōng wén I only speak a little bit Chinese.

马马虎虎。 mǎ mǎ hǔ hǔ Just so-so.

Do you wish to be able to say the above in Chinese? Did you know that there are over a million foreign speakers and learners of Mandarin worldwide? Join us for this crash-course in Mandarin Chinese and get to know the 3rd biggest country with the largest population in the world. By the end of this course, you will be able to understand Chinese pronunciation, writing, and grammar system, conduct daily conversations, write at least 100 Chinese characters, pronounce any Chinese word, and even type Chinese characters on your phone! If you are looking to develop your skills in listening, speaking, reading, and writing, and experience traditional and modern China, then this is the course for you!

### Instructor Biography

**Shuyuan** is a graduate student in the Faculty of Education at Queen's University. She was curriculum and instruction director at Chinese Language Academy of Los Angeles, where she did research and development on gamified online and technological applications for language teaching. Her research interests focus on second language acquisition, literacies study, multimodality, and Chinese as a second language.

## Travelling Through Time in the Limestone City

### Course Description

Have you ever stopped to think about the rich history behind a monument or statue that you pass by every day in your community? Join us on this experiential learning course where we will explore the local history of Kingston by visiting historic sites, monuments, and museums that will encourage you to think critically about Canada's past. You will learn to think like a historian while considering a range of topics, including war and society, commemoration, crime and incarceration, Indigenous peoples, and popular culture. You will also have the opportunity to examine primary sources, create your own artifacts, and debate controversial topics of today. Come along with us as we travel through time to learn more about the past, present, and future of the Limestone City!

### Instructor Biography

**Sara** is a PhD student in the Faculty of Education at Queen's University and is currently researching history education and experiential learning. She is also an elementary and high school teacher in Ontario, and has led student battlefield tours in Europe for the Vimy Foundation. Sara created this place-based experiential learning course to connect students with local history and make learning about the past engaging.

## Writing Compelling Fiction

### Course Description

You have imagination, passion, a love of stories, and you are great with words – so how do you take your writing to the next level? In this course, you will discover the secrets to writing stories that stir readers' emotions and take them on a page-turning and meaningful adventure. You will learn the essential elements of great plots as well as how to develop original story ideas, design memorable characters, hook your readers, and flesh out your hero or heroine's inner journey. Plus, short cuts for improving your writing style. All taught through a combination of collaborative games, creative exercises, lecture, and self-directed writing opportunities.

### Instructor Biography

**Glen** has been a freelance writer since 1999 and has been instructing with ESU since 2013. He is the author of the award-winning middle-grade novel, *Dancing on the Inside*, and currently teaches creative writing at St. Lawrence College in Kingston, Ontario.

# Your Road to Web Programming

## Course Description

Are you looking to expand your knowledge of technology and take your coding skill to the next level? In this course, you will get hands-on experience building your first website. You will learn how to create a website from scratch using HTML and CSS by getting familiar with the fundamental elements of web development. By the end of this course, you will be familiar with the complete website development process. You will also learn how to make your site live and accessible online. If you are considering a possible future in computer science or if you are just curious about the coding world, then this is the course for you!

## Instructor Biography

**Maram** is a PhD student in the School of Computing at Queen's University. Her research interests focus on Machine Learning, Natural Language Processing, and Software Engineering. A former teacher, Maram has taught computer related courses to undergraduate students. She also has six years of work experience in the software development field. Maram is excited to introduce you to the world of programming.

## GRADE 8-9 COURSES

### Pathology: From DNA to Forensics

#### Course Description

Do you dream of becoming a Crime Scene Investigator? Want to investigate a mock crime scene? Then this course is for you! You will learn about the human body, diseases, DNA, and genetics through hands-on activities including: a genetics testing lab, dragon genetics lab, blood typing (with simulated blood), and examining plastinated specimens. You will also learn forensics skills such as fingerprinting, and handwriting analysis. Are you ready to solve the case?

#### Instructor Biography

**Dr. Mackenzie Bowman** has been coordinating ESU courses since 2010, and holds a PhD in Pathology and Molecular Medicine. She is currently a Senior Scientist in the Clinical and Molecular Hemostasis Research Group at Queen's University. Instructors for this course are specially selected and supervised by Dr. Bowman.

## GRADE 10-12 COURSES

### Pathology and Molecular Medicine

#### Course Description

Have you ever wanted to solve your own diagnostic case or learn how to find your blood type? If yes, then this is the course for you! This course will provide you with a thorough introduction to the field of Pathology – the study of diseases and the structural and functional changes they cause. You will interact with graduate students, professors, and doctors as you learn about genetics, cancer, neuropathology, and even have the opportunity to discuss education and career options. You will also extend your learning in the state-of-the-art Queen's University Anatomy Museum and Clinical Simulation Centre.

#### Instructor Biography

**Dr. Mackenzie Bowman** has been coordinating ESU courses since 2010, and holds a PhD in Pathology and Molecular Medicine. She is currently a Senior Scientist in the Clinical and Molecular Hemostasis Research Group at Queen's University. Instructors for this course are specially selected and supervised by Dr. Bowman.

## Power, Politics & You: The Known & Unknown Politics in Your Life

### Course Description

What do you think of when you hear the word “political”? Do you think of government, laws, taxes, and the military? Did you know that there are also politics that surround you in your personal life, your family, your education, and even your preference of a car? Power, the life source of politics, is all around us. In this course, we will examine the question, “What is political?” We will explore how it is present in our lives, how media and power frame our perceptions of it, and where these preferences intersect in the debate of social good versus economic good. Experiential learning, thought experiments, and multi-model expressions of learning will guide our experience as we explore politics all around us. As you sit in a highly political institution within a city with a long history of political activity, the stage is set for the exploration of how power can emerge even in the smallest corners of your life.

### Instructor Biography

**Michael** is a graduate student in the Faculty of Education at Queen’s University. He is currently researching educational psychology, online learning, motivation, and inquiry-based learning. He previously studied Political Studies and has worked with the Centre for Teaching and Learning at Queen’s. In his spare time, you can catch Michael as an on-ice official for minor and junior level hockey or playing ultimate frisbee for the Queen’s Gaels.