2018
Summer Enrichment Experience @ Queen’s (SEEQ)
Course Descriptions
**ACTing on World Issues**  
(Drama)

**Course Description**  
Interested in theatre arts? Concerned about what’s going on in the world around you? Wondering what the two have to do with one another? During this interactive course, you will learn about the amazing collision of performance arts with activism. Action theatre is used throughout the world to build community, effect social change, and develop social agency in youth. In this course, you will learn how theatre troupes connect with their audience and explore some of the effective, highly stylized techniques such as: tableaux, mime, improvisation, leveling, minimalism, docudrama, and multimedia uses. This course will culminate with the creation of a short action play, in which your contribution – either on-stage or in a supportive role – will play a key part.

**Instructor Biography**  
Rebecca is a new instructor for ESU. She has many years’ experience as a certified drama teacher, teaching both in Ontario and internationally. She also co-created an action theatre troupe that ran for a number of years in two schools. Rebecca is currently completing her PhD at the Faculty of Education at Queen’s University.

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**The Blood, Guts, Heart and Spine of Crafting Great Stories**  
(Literature, Creative Writing)

**Course Description**  
Do you dream of becoming a successful fiction writer like Stephen King, J.K. Rowling, or John Green? How about writing the screenplay for movies like Star Wars or The Avengers? This course will introduce you to techniques used by these famous writers. Regardless what medium you want to write for (novels, screenplays, graphic novels, etc.), you will discover how to stir readers' emotions and take them on a page-turning and meaningful journey. This course covers the complete creative process including how to find story ideas, create believable characters, structure an emotionally compelling plot, and develop an effective writing style. In a few short days, you will write an original story and be on your way to creating a full-length manuscript!

**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.
You Can’t Be smART without ART!
(Visual Art, Fine Art)

**Course Description**
Find your inner artistic genius with this crash course in fine art! Over three days, you will be immersed in the world of artistic expression, learning both theory and skills from the minds and hands of artists and technicians. Inside the studios of the Queen’s University Fine Art program, you will have the opportunity to develop your own masterpieces in printmaking, acrylic painting, and modern sculpture. To get your creative juices flowing, you will also visit two art galleries on the Queen’s campus to find inspiration from the works of students, local artists, and even famous painters like Rembrandt. It’s time to create more than doodles in your notebook! Who knows, maybe you’ll be the next Michelangelo, Picasso, or Warhol!

**Instructor Biography**
Stéfy is returning for her second year instructing for ESU. She has a Masters of Art in Cultural Studies from Queen’s University and is a Kingston, Ontario based artist. Stéfy has recently exhibited work at the Centre for Indigenous Research-Creation, Modern Fuel, Tett Centre for Creativity and Learning, OCAD University, WKP Kennedy Gallery and White Water Gallery in North Bay, and the Isabel Bader Centre for the Performing Arts.

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**Grade 8-9 Courses**

**Pathology: From DNA to Forensics**
(Biology, Pathology)

**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. In other labs, you will learn forensics skills such as fingerprinting, and handwriting analysis. Are you ready to solve the case?

**Instructor Biography**
Dr. Bowman is in her eighth year as course coordinator 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.
### Programming Puzzles: Coding and Computer Wizardry

**Course Description**
Become a computer whiz by learning how a computer “thinks” and how to think like a computer! You will explore important concepts in computer science and use them to solve challenging problems, build useful programs, create entertaining animations, and develop interactive games to play with your classmates and share with your friends. Through hands-on activities that put the power of computers at your fingertips, you will discover how a computer encodes, organizes, and remembers information and how your commands are processed and transformed into what we see on a screen. Once you understand how a computer works, you can make it work for you!

**Instructor Biography**

Daisy is returning for her second year instructing for ESU. She has a background from Queen’s University School of Computing and has previously helped to develop content for and teach the Google igniteCS @ Queen’s University program – a coding camp for high school students.

### Discovering the Ancient World

**Course Description**
Would you like to learn about the famous Trojan Horse, or discover the wonders of ancient Egypt? Are you interested in becoming an archaeologist for a day and uncover the secrets of an ancient city in a mock excavation? Perhaps you would like to learn about ancient warfare, or the life of Roman gladiators, or would like to decipher ancient texts and learn the basics of Latin or ancient Greek? Although these people lived in the distant past, they still had their own scientific theories and medical practices, even though they seem strange to us today. There is so much to learn about the ancient past; come join us and explore the mysteries of the ancient civilizations!

**Instructor Biography**

Jade – a first time instructor for ESU – is a graduate student in the Classics Department at Queen’s University. Her research interests focus on virtual archeology, including the creation of 3-D models of artifacts and architecture from Imperial Rome to Byzantium. She has also participated in archaeological fieldwork in Italy, Spain and Macedonia, and has taught Latin to local high school students.
Fitness, Sport, and Health: The Study of the Human Body in Motion
(Kinesiology, Health Studies)

Course Description
Have you ever wondered how runners like Usain Bolt and Andre De Grasse became so fast? Or how Olympians like Clara Hughes and Christine Sinclair developed such strength and endurance? If you have a passion for sports and exercise, then this is the course for you! You will learn about the human body in motion by studying the effects of physical activity on health and performance, the physiological factors effecting body during movement, and important sport psychology concepts. Opportunities to visit various labs and learn more about exercise physiology, sport psychology, biomechanics and ergonomics, cardiovascular physiology, and health promotion, will turn your passion into a possible profession.

Instructor Biography
Madison is a first time instructor for ESU and is currently completing her Master’s Degree in Kinesiology at Queen’s University. In addition to working in multiple kinesiology labs at Queen’s (including cardiovascular, physiology, sport psychology and muscle physiology), Madison has also assisted with instructing undergraduate kinesiology courses.

Pathology and Molecular Medicine
(Biomedical and Molecular Science)

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, pharmacology, toxicology and even have the opportunity to discuss education and career options. You will extend your learning in the state-of-the-art Queen’s University Anatomy Museum and Clinical Simulation Centre.

Instructor Biography
Dr. Bowman is in her eighth year as course coordinator 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.
Psychology 101: The Human Brain and Behavioural Science
(Psychology, Health Studies)

Course Description
Have you ever wondered why people do the things they do? Do you have an interest in the field of psychology and mental health? If so, this is the course for you! As you explore the science of psychology and experience first-hand a day in the life of a psychologist, you will learn about the anatomy of the brain, how each part of it contributes to how we function and behave as humans, and the role of psychologists as mental health service providers within our community. Together we will conduct real experiments, complete challenging puzzles, and engage in group activities to build essential skills and knowledge needed as a psychologist-in-training.

Instructor Biography
Brittany – a new addition to the ESU team – completed her Bachelor’s Degree in Psychology and Sociology at Queen’s University. She is currently assisting with instructing undergraduate courses at Queen’s.