



SCANS
Course Offerings

Winter 2020

1 Alan Griffiths

The Grand Themes of Photography

Dates, Time, and Place

The Grand Themes of Photography - Alan Griffiths

Tuesdays 10:00 AM - 12:00 PM (6 wks) Feb 04 to Mar 10

Parkland Clayton Park, Cameron Hall, 114 Fairfax Drive, Halifax

Course Description

Photography can be divided into genres such as portraiture, landscape, documentary, scientific, experimental and numerous others. This course will explore each of these to show how they have changed over time. It will be a merry romp through the subjects showing rarely seen photographs and delving into the stories behind them. Drawing on photographs largely hidden from public view in private collections and the vaults of museums we'll tease out how photography has changed over the years and why. Why do people pose in a certain way in group photographs? How has photography been used to document scientific innovations? What kinds of experimentation have taken place in photography and how has that evolved into contemporary photography. Questioning my thoughts is always encouraged.

Instructor Biography

Alan Griffiths started out as a prehistoric archaeologist specializing in animal movements in Sardinia. Realizing that it is difficult to make a living in this field he moved into computer consultancy and academic research. He lectured at Sheffield University in the UK on Multimedia, was a visiting lecturer at the University of Pittsburgh and a Visiting Professor at the University of Massachusetts in addition to giving lectures widely. He has consulted for the British Library, NATO, IBM, Hewlett Packard and was the Chief Information Officer for an ill fated dot com start-up in the USA. He has been interested in photography for many years and created www.luminous-lint.com in 2005 to help explore the history in some depth. To date photographs from almost 3,400 organizations, photographers, photographic galleries and private collectors around the world have been included. This allows users to explore an ever-expanding online history through over 700 online exhibitions, numerous biographies, techniques, timelines and a visually rich website. Luminous-Lint includes over a thousand parallel and interlinked histories of photography and it is used by major institutions around the world.

2 David McNeil Hockey and Canadian Culture

Dates, Time, and Place

Hockey and Canadian Culture - David McNeil

Tuesdays 10:00 AM - 12:00 PM (6 wks) Feb 04 to Mar 10

Maritime Conservatory of Performing Arts, Room 15, 6199 Chebucto Road, Halifax

Course Description

This class will explore the role that hockey plays in Canadian culture. We will examine professional sport as spectacle (MacAloon) and cultural obsession. Examples may be drawn from media (television, print journalism), literature (novel/poetry/short story), film, drama, art, history and music, but the exact selections of texts and other materials will be made based on specific interests of the class members.

Instructor Biography

David McNeil was a professor in the English Department at Dalhousie for 34 years. He taught a range of courses in eighteenth-century literature, the novel, and satire. He also taught a class on hockey literature and culture (regular and online formats). He is the author of *The Grotesque Depiction of War and the Military* (1990), *In the Pressure of the Moment: Remembering Gerry McNeil* (2016), and a number of other articles. With Ron Huebert, he has also contributed to and edited a collection of essays, *Early Modern Spectatorship: Interpreting English Culture* (2019). His research interests currently range from self-likenesses in Italian frescoes/British murals, the history of sports photography and eighteenth-century memoirs.

3 John Baxter Shakespeare's Fools

Dates, Time, and Place

Shakespeare's Fools - John Baxter

Tuesdays 1:00 PM - 3:00 PM (6 wks) Feb 04 to Mar 10

Maritime Conservatory of Performing Arts, Room 15, 6199 Chebucto Road, Halifax

Course Description

“Comparisons are odorous,” says the incomparable Constable Dogberry, and while that may not be exactly what he means, we’ll try to follow his advice and make as many sweet comparisons as we can of the fools in three of Shakespeare’s plays: Dogberry from *Much Ado about Nothing* (1598), Feste from *Twelfth Night* (1601), and the Fool from *King Lear* (1605). When the actor Will Kempe left Shakespeare’s company to be replaced by Robert Armin sometime around 1600, Shakespeare’s clowns also underwent a change, from buffoonish to melancholic. What does that do to the comedy? Why is a fool needed in a tragedy? Why is the bumbling Dogberry able to solve the crime in *Much Ado*? Why does Feste get mixed up in the action in *Twelfth Night*? Why does Lear’s Fool disappear from the action?

Instructor Biography

John Baxter is Professor Emeritus of English at Dalhousie University. He is the author of *Shakespeare's Poetic Styles* (1980; rpr. Routledge, 2005) and co-editor of *Aristotle's Poetics* by George Whalley (McGill-Queen's, 1997). Selected articles include: “‘My Shakespeare, rise’: Ben Jonson’s Celebration of His Shakespeare,” *Cahiers Elizabethan: A Journal of English Renaissance Studies*. Vol. 90.1 (2016): 30-41; “The Aristotle-Coleridge Axis Revisited,” *Proceedings of the 2015 George Whalley Conference*, <http://georgewhalley.ca/gwp/> (Fall, 2016); and “Tying the Knot in *Othello*,” *Essays in Criticism* 64.3 (July, 2014): 266-92. His essay, “Perilous Stuff: Poems of Religious Meditation,” *Renascence: Essays on Values in Literature* 62.2 (Winter, 2010): 89-115, was the winner of the 2012 Joseph M. Swartz Memorial Prize. After 37 years of teaching at Dalhousie, he retired on June 30, 2017.

4 Ian MacVicar Spy School 301

Dates, Time, and Place

Spy School 301 - Ian MacVicar		
Wednesdays	10:00 AM - 12:00 PM (6 wks)	Feb 05 to Mar 11
Captain William Spry Community Centre, 16 Sussex St., Halifax		

Course Description

“The Psychology of Intelligence Analysis,” examines the psychological aspects of intelligence analysis, agent recruitment, deception, fake news/propaganda, military and political failures, and security planning. Biases, distorted thinking patterns, and mitigation strategies, such as Structured Analytic Techniques are explained in historical context. Practical thinking exercises are used to illustrate the course content.

Instructor Biography

Dr. Ian MacVicar is the Director/Principal Analyst of Ian MacVicar Universal Security Intelligence Cognitive Solutions (I-MUSICS) Consulting, Inc., which hosts 17 networked consultants from military, police, business, legal, and healthcare backgrounds. Dr. MacVicar is a Royal United Services Institute Nova Scotia Research Fellow, specializing in intelligence and security policy issues. He is currently under contract to Calian Group, Ltd. as the principal writer of the Canadian Army’s principal tactical manual, the *Combat Team Commander’s Handbook*. Dr. MacVicar has presented his research on cognitive traps (i.e. distortions in thinking) in security planning at conferences in the United Kingdom and Canada. His SCANS SpySchool 101 and 201 lectures specialize in the history of intelligence, espionage, and associated legal oversight regimes. He has published articles on leadership, human security, and the Responsibility to Protect doctrine. Ian has also presented on how to develop psychological resilience in leaders to government and business audiences. LCol MacVicar has served for over 40 years in the Canadian Armed Forces in Field Artillery, Chemical Biological Radiological Defence, Arms Control infantry, and as a Cadet Instructor. He is a 2017 graduate of the Veteran Trainers to Eradicate Child Soldiers (VTECS) program, and his current research includes developing intelligence protocols for addressing the phenomenon of child soldiers. He is a former member of the Board of Directors of the Halifax Military Heritage Preservation Society, the Army Cadet League of Nova Scotia, and the Canadian Military Intelligence Association Halifax Chapter, where he acts as Director Academic Outreach. In his spare time he is a Certified Yoga Teacher, specializing in Trauma Informed Yoga Teaching and Therapy.

5 Fred Young Polish/Czech/Hungarian/DDR Retrospective Feature Films on Communism since 1989 - Fred Young

Dates, Time, and Place

Polish/Czech/Hungarian/DDR Retrospective Feature Films on Communism since 1989 - Fred Young

Wednesdays 10:00 AM - 12:00 PM (6 wks) Feb 05 to Mar 11

Maritime Conservatory of Performing Arts, Room 15, 6199 Chebucto Road, Halifax

Course Description

Course will screen 6 films from Poland, Czechoslovakia, Hungary, East Germany looking back on the Communist Period (1945-89) from after the fall of the Berlin Wall in November 1989. Some of them even evince a 'nostalgia' for the 1960, and 1970s.

Instructor Biography

Fred Young is a retired history professor from Saint Mary's University who has extended his interest in 20th century continental European history into East Central Europe. He has taught regular history courses on Poland and East Central Europe for SCANS, as well as have offered several courses specifically on films from these countries, particularly films made during the communist period, 1945-89. Formerly his history specialty was on 19th and 20th Continental Europe, with his research and writing focused on Germany.

6 Michael Collins Glimpses of Georgian and Victorian History

Dates, Time, and Place

Glimpses of Georgian and Victorian History - *Michael Collins*

Wednesdays 10:00 AM - 12:00 PM (6 wks) Feb 05 to Mar 11

‡ Tantallon Public Library, 3646 Hammonds Plains Road, Upper Tantallon ‡

Course Description

Topics will include: the Industrial Revolution in 90 minutes, Living in Georgian England, Colonial Trade and Empire, Voting Reform and Accommodation, Society and Social Problems, Victoria and her Imperial Age.

Instructor Biography

First Life as an oil industry plant operations 'Gypsy' in England, Canada and Saudi Arabia.
Second Life as a university academic. PhD Social and Economic History and Soviet Studies
Teaching Fellow Economic and Social History and Soviet Studies at the University of East Anglia in Norwich England.

7 Milton Graves Dinosaurs

Dates, Time, and Place

Dinosaurs - Milton Graves

Wednesdays 1:00 PM - 3:00 PM (6 wks) Feb 05 to Mar 11

Maritime Conservatory of Performing Arts, Room 15, 6199 Chebucto Road, Halifax

Course Description

Dinosaurs are an extinct group of animals who lived for nearly 200 million years. Their descendants, the birds, surround us. This course will introduce you to the biology and geology of dinosaurs. We will examine the evidence they have left behind and what we can deduce about the lives of these amazing animals. How did they originate, diversify, and become extinct? Dinosaurs have a place, not only in our natural history but in our culture. The course will end with a consideration where and how you might see and learn more about dinosaurs.

Instructor Biography

Milton Graves retired from Dalhousie University in 2015 after 15 years of teaching Earth Sciences. He has an MSc from Dalhousie University and worked as a geologist before teaching. He taught a second-year course entitled “Dinosaurs” at Dalhousie University for 10 years.

8 Tony Schellinck Seeing is Believing: How the Telescope Changed Who We Are and What We Know

Dates, Time, and Place

Seeing is Believing: How the Telescope Changed Who We Are and What We Know - *Tony Schellinck*

Thursdays 10:00 AM - 12:00 PM (6 wks) Feb 06 to Mar 12

Maritime Conservatory of Performing Arts, Room 15, 6199 Chebucto Road, Halifax

Course Description

The Seeing is Believing course is a mixture of history (going back to 3,000 BC and the creation of the constellations), science (how observers discovered how the universe works) and practical observing through binoculars and telescopes (this would include field trips and the use telescope of different sizes and makes). Students will be introduced to the night sky and the deep sky objects that can be observed with telescopes and trained to use small telescopes to make the same discoveries that famous scientists (e.g., Galileo, Messier, and Newton) did in the past. There will be one or two field trips to use scopes in order to experience Galileo moments. Tony is also making arrangements to hold a class (or a field trip) at the Halifax Planetarium and one at the SMU Burke Gaffney observatory.

Tony has offered the popular A Practical Guide to Observing the Night Sky with Binoculars course where he introduced students to the night sky and showed them how to observe the night sky using binoculars. The Seeing is Believing course delves more into the science and history of astronomy while continuing to provide a practical guide to observing the night sky with telescopes and seeing more clearly the wonders of the sky. No prerequisites are required for this course.

Instructor Biography

Tony has always had an interest in astronomy; but it wasn't until age 55 that he became active as an amateur astronomer. A former Dalhousie professor, he knows that the best way to learn a topic is to teach it. He therefore participates in public viewing sessions around Nova Scotia, has become a regular presenter at the Halifax Planetarium, and has given lectures at parks and libraries around the province. His SCANS course A Practical Guide to Observing the Night Sky with Binoculars has been offered five times. He currently owns nine telescopes, but as he explains to his wife, they all have a special purpose. He shows people how to use the various types of telescopes, their origins and why they are better for certain types of observing or astroimaging.

9 Gwen Davies Creative Writing

Dates, Time, and Place

Creative Writing - *Gwen Davies*

Thursdays	1:30 PM - 3:30 PM	(6 wks)	Feb 06 to Mar 12
Hope United Church, 3055 Connaught Avenue, Halifax			

Course Description

This is an active course in writing, for those who want to explore your own stories but have never gotten around to it, and those who need help to get back to writing. The class is designed to be a safe place for beginners to get started, and a useful class for those with writing experience. Over the six weeks, we will write, listen to writing and get feedback. We will cover the basics of story writing including character, dialogue, setting and plot, and look at how to make personal stories into fiction. All genres of fiction are welcome, and we'll share tips and ideas on writing. We can work with memoir to some extent, but the focus of this session is on fiction.

Instructor Biography

Gwen Davies has been teaching creative writing for over 25 years. She started the Community of Writers at the Tatamagouche Centre, a four-stream writing event, and ran it until the Centre had to draw back and refocus 15 years later. She has had several stories published in literary magazines and anthologies, and has won a few prizes. Her book *Facing the Other Way* came out in 2016. She supported her writing habit with teaching, by working in literacy and community development, and recently retired from 35 years of consulting in clear language and design. She holds degrees from Wilfrid Laurier, and from King's, Halifax. She grew up travelling around Europe with her Air Force family in a VW camper, and took up parkour at age 62.

10

Natalia Koutovenko
The Best Russian Novels of the 19th Century

Dates, Time, and Place

The Best Russian Novels of the 19th Century - <i>Natalia Koutovenko</i>		
Fridays	10:00 AM - 12:00 PM (6 wks)	Feb 07 to Mar 13
Parkland at the Lakes – Phase 2, Kinross Hall Theatre, 122 Baker Drive, Dartmouth		

Course Description

Two great novels are chosen for the course: “The War and Peace” by Leo Tolstoi and “Taras Bulba” by Nikolai Gogol. The screen versions of these novels will be shown and the following problems will be discussed:

1. The problem of relations between fathers and sons (in both novels).
2. Complexity and challenge of human behavior.
3. The role of childhood in personality evolution, moral objectives.
4. Generosity.
5. Honor and human dignity.
6. Perception of the environment.
7. Art and human being.
8. The human being and power.
9. The role of woman in the society.
10. Relationship of society and personality.
11. Freedom and necessity.
12. Peace denies war.
13. Struggle for national independence; patriotism and love to the Motherland.

Some other philosophical and moral problems will be discussed.

Instructor Biography

Natalia Koutovenko used to be the Dean of Foreign Students and Assistant Professor at the Institute of Culture in Leningrad, and also worked as Assistant Director in Foreign Affairs at the Library of the Academy of Sciences. Acted as a Chair of Foreign Languages Department at the International Banking Institute. In Canada she worked as Assistant Professor at the Department of Russian Studies at Dalhousie University. Now Natalia is working as an interpreter and teacher of Russian Language and Literature in Russian School.

11 Alex Roberts

How to Talk Back to an Economist

Dates, Time, and Place

How to Talk Back to an Economist - Alex Roberts			
Fridays	1:30 PM - 3:30 PM	(6 wks)	Feb 07 to Mar 13
Parkland Clayton Park, Cameron Hall, 114 Fairfax Drive, Halifax			

Course Description

“Economics is an easy subject at which few excel.” – John Maynard Keynes

The subtle, arcane, (but not so dismal) science of economics affects each one of us daily - be it the rising cost of family groceries, investing in the stock market, or making informed choices as a voter. However, a little training in some basic concepts can go a long way in helping to comprehend the economic forces shaping our lives, avoid economic fallacies, and not be deceived by economists. This six-week course is designed as a lively, accessible, and painless guide to economics and the economy - with an emphasis on ideas and understanding rather than esoteric charts, incomprehensible jargon and arms-length equations. Relevant real-world examples, video clips, cartoons and case studies will be employed to help demystify the jargon and explain key concepts. The focus will be on big ideas such as globalization and trade, money, the GDP, inequality, recessions and depressions, and understanding economic indicators. As well hot-button issues such as neuroeconomics, NAFTA, BREXIT, “Trumponomics,” “nudge” economics, virtual currencies, behavioural economics, and the merits and demerits of carbon taxes will be featured; along with snapshots of the most influential economists.

Instructor Biography

A native of Yorkshire, England, Alex Roberts taught in Halifax for 28 years (Statistics, Economics and Computer Science), writing his own student texts. After leaving teaching in 2005, he spent several years as an educational presenter and is now a freelance writer, with over 200 articles published. Hobbies include being a railway buff, coin collecting, music, and cricket. The former co-owner of Entertainment Contacts (booking) Agency, he currently owns and operates The White Rose Cricket Forum. He holds a B.A (Economics), a B.Ed and an M.Ed (Curriculum Theory).

12

Gary Welch
Astronomy: Part 1

Dates, Time, and Place

Astronomy: Part 1 -Gary Welch

Fridays	1:30 PM - 3:30 PM	(6 wks)	Feb 07 to Mar 13
‡ Woodlawn Public Library, 31 Eisener Blvd., Dartmouth ‡			

Course Description

Has your curiosity been piqued by news of merging black holes, the latest photos from the surface of Mars, reports of earthlike worlds orbiting other stars, another attempt to identify dark matter? This two-part course will help you learn more about those and other headline-grabbing topics; it will also present a broader and deeper view of what astronomers do than conveyed by popular news outlets. Expect lots of pretty pictures and new concepts and, yes, teeny bits of math here and there. A background in science or math, however, is not needed. Astronomy, Part 1 will focus on the night sky, on our solar system, and on the tools astronomers use to understand what's out there. Why do we see only one side of the moon? What is the evidence for water on Mars? What causes the volcanic eruptions on Jupiter's moon Io? How does the Sun produce energy, and how do we know? How can earth-bound telescopes compete with or even outperform the Hubble Space Telescope?.

Instructor Biography

A native of California, Gary Welch immigrated to Halifax in 1974 to help found the astronomy program at Saint Mary's University. He is now Professor Emeritus in the Department of Astronomy and Physics. During his career at Saint Mary's Dr. Welch used telescopes in space and on earth to help understand the lives of galaxies. He taught courses ranging from introductory astronomy for first-year arts majors to specialty topics for post-graduate students, and also enjoyed giving presentations to Metro area secondary schools as part of the Dalhousie University program *Scientists and Innovators in the Schools*.

13

Ted Blackburn
Jazz - Innovators and Influencers

Dates, Time, and Place

Jazz - Innovators and Influencers - Ted Blackburn			
Tuesdays	2:00 PM - 4:00 PM	(6 wks)	Feb 04 to Mar 10
St. Stephen's Hall, 54 Regent Street, Chester			

Course Description

This course, delivered in two-hour sessions over six weeks, will examine the jazz musicians who had a significant impact on the development of the various styles of jazz. Each of the six sessions will focus on a different period in jazz history and the ways in which individual musicians helped to shape the styles that emerged in each period.

Session 1:

- Brief overview of jazz history
- **“The New Orleans Giants”** – Buddy Bolden, King Oliver, Louis Armstrong, Jelly Roll Morton

Session 2:

- **“Jazz In the City”** – King Oliver, Louis Armstrong, Fletcher Henderson, Duke Ellington, George Gershwin

Session 3:

- **“It Don’t Mean a Thing If It Ain’t Got That Swing”** – Duke Ellington, Count Basie, Cab Calloway, Glenn Miller, Artie Shaw
- Lester Young, Coleman Hawkins, Teddy Wilson, Lionel Hampton, Django Reinhardt

Session 4:

- **“The Rise of the Virtuoso”** – Charlie Parker, Dizzy Gillespie, Bud Powell, Max Roach, Oscar Peterson, Thelonious Monk, Bill Evans
- **“Sing, Sing, Sing”** – Bessie Smith, Ella Fitzgerald, Billie Holiday, Mel Torme

Session 5:

- **“New Directions in Jazz”**
 - *Afro-Cuban*: Machito, Dizzy Gillespie, Charlie Parker, Stan Kenton, Cal Tjader
 - *Hard Bop*: Clifford Brown, Art Blakey, Charles Mingus, Miles Davis, John Coltrane
 - *Cool Jazz*: Miles Davis, Gerry Mulligan, Dave Brubeck, Gil Evans

Session 6:

- **“Can I Call This Jazz?”**
 - *“Latin Jazz”*: Antonio Carlos Jobim, Stan Getz, Chick Corea, Joao Gilberto
 - *“Free Jazz”* – Ornette Coleman, John Coltrane, Don Cherry
 - *“Jazz/Rock Fusion”* – Miles Davis, Chick Corea, Weather Report

- **“Jazz Returns to Its Roots”**
- Wynton Marsalis
- Michael Brecker
- Joshua Redman
- Christian McBride

Instructor Biography

Ted Blackburn is a graduate of the music programs at Humber College and York University in Toronto. He earned his Bachelor of Education from the University of Toronto and taught high school for the Peel District School Board (Mississauga and Brampton) for 29 years. Throughout those years, Ted performed and recorded with a number of bands including his own jazz trio. Since retiring from teaching, Ted has spent much of his time composing and arranging music for large jazz ensembles and has recorded three Big Band CDs featuring his arrangements. Ted is a member of the Tuesday Night Big Band in Halifax and the Chester Brass Band.

14

Yongmei Wang
Chinese Culture

Dates, Time, and Place

Chinese Culture - <i>Yongmei Wang</i>			
Thursdays	2:00 PM - 4:00 PM	(6 wks)	Feb 06 to Mar 12
St. Stephen's Hall, 54 Regent Street, Chester			

Course Description

By approaching and looking at different aspects of life, this course will attempt to demonstrate the core cultural values which make Chinese culture different from others in the world. The main goal will be to explore Chinese ways of life, ways of thinking and ways of behaviour by looking at Chinese history, philosophy, language and arts. This class will help participants come to a better understanding of China and its people.

Instructor Biography

Before Yongmei Wang moved to Halifax from China in 2008, she studied at the University of Newcastle in the United Kingdom and graduated with a Masters Degree in Cross Cultural Communication and International Management. She taught English related classes, and Cross Cultural Management at Jinling Institute of Technology in Nanjing, China. She also worked at Huawei Technology as a Training Specialist where she trained managers who were working in European, African and Oceania countries managing multicultural teams. After she came to Halifax, she worked as a teaching assistant with ISANS, the Immigrant Services Association of Nova Scotia. She also taught Chinese Culture and tutored Chinese Language at Dalhousie University. With the knowledge and experience she acquired studying, living and working in different countries she can bring an international perspective to her classes.

15 Vladimir Sitnikov

History of Composition and Songwriting

Dates, Time, and Place

History of Composition and Songwriting - Vladimir Sitnikov

Tuesdays 10:00 AM - 12:00 PM (6 wks) Feb 04 to Mar 10

Mahone Bay Centre, 45 School Street, Mahone Bay

Course Description

History of Composition and Songwriting will take students on a journey through centuries of music history. Do J.S. Bach and Joni Mitchell have something in common? Would Mozart make it to the top 40 pop charts today? Composing traditions and techniques from around the world, musical forms and structures, history and poetry, music theory and harmony basics will be covered during this course. Students are encouraged to work on their songwriting skills, possibly writing a song or two by the end of the course. Live music pieces and samples will be played by instructor on guitar.

Instructor Biography

Before Vladimir - professional musician for more than 20 years - made Canada his new home, he mastered his guitar and composition in Russia. A prize winner of an international classical guitar competition, he graduated from Rostov State Conservatory and toured across Europe.

In Canada Vladimir continued his musical career. He has released few classical and jazz guitar albums. Has been teaching music at Talent Studio, Kingsview Academy and SCANS in Halifax and Ontario Conservatory in Toronto, performing with many bands and musicians all across Canada, appeared on award winning records, TV and radio stations. Vladimir is the musical director of The Shining Lights Choir - a community choir for homeless and disable people in Halifax, NS.

16

Marcos Zentilli
Geology and Everyday Life

Dates, Time, and Place

Geology and Everyday Life - Marcos Zentilli			
Wednesdays	2:00 PM - 4:00 PM	(6 wks)	Feb 05 to Mar 11
Mahone Bay Centre, 45 School Street, Mahone Bay			

Course Description

Geology is the foundation of environment; it regulated the evolution of life and today impacts nearly all human affairs, from conflicts about exploitation of resources to rising sea levels. The course will be a rather personal survey of topics like geologic time, fossils, extinctions, past climates, plate tectonics caused earthquakes, tsunamis, volcanoes, the importance of minerals in the economy, the geology of cities, soils, geology and health, the geology of water and human-induced global changes. The past is the key to the future.

Tentative Plan

Class	Date	Topic
1	05-02-20	Geologic time; geologic history; the past is the key to the future; relative age; fossils and evolution; rock dating. Ancient climates, catastrophic extinctions. Erosion; from rivers to sea; sediments and sedimentary rocks
2	12-02-20	Plate tectonics; Earth interior; opening and closing of oceans; subduction zones; earthquakes and tsunamis; faults and folds; metamorphism, growth of mountains; magmas: granite batholiths, volcanos
3	19-02-20	Minerals; crystal growth, gemstones; mineral resources and mining, metals; industrial minerals; energy minerals; fossil fuels: coal, oil, gas; shale gas and fracking
4	26-02-20	Volcanos and people; geothermal energy, volcanic hazards (e.g. Pompeii 79AD) and effects on climate (e.g. Laki eruption, Iceland, 1783, “the summer that did not come” and famine). Soils. Geology and health: “Medical Geology”
5	04-03-20	Cities and geology: architecture, building materials. Limestone, the wholly organic rock; from fossils to marble, cathedrals and Michelangelo. Caves, sinkholes, cenotes and early humans
6	11-03-20	Geology of water; the water cycle; deserts; glaciers, melting permafrost, dams, agriculture, groundwater. Disastrous human impacts on Earth

Readings: A good background for this course would be the book: “The Last Billion Years” available for \$30 from the Atlantic Geoscience Society (AGS), and of possible interest a free downloadable brochure about pebbles found in Nova Scotia.

http://ags.earthsciences.dal.ca/Publications/AGS_Pubs.php

<http://ags.earthsciences.dal.ca/TransferFolder/NSPebbles.pdf>

Instructor Biography

Marcos Zentilli, Emeritus Professor at Dalhousie University, was born and educated in Chile and obtained a PhD in Geological Sciences at Queen’s University, Ontario. He worked in mineral exploration and from 1973 taught at Dalhousie, until retirement in 2005. He guided numerous student theses exploring isotopic methods for the dating of rocks, mineral deposits and the uplift of mountains in the Andes and Atlantic and Arctic Canada. His peers named a Zentilli Volcano in northern Chile in recognition of his early work. In 2015 he received the Gesner Medal from the Atlantic Geoscience Society and in 2019 the Excellence in Geoscience Award from Geoscientists Nova Scotia.

17

Wendell Eisener
A History of Jazz in Six Easy Lessons

Dates, Time, and Place

A History of Jazz in Six Easy Lessons - *Wendell Eisener*

Mondays 10:00 AM - 12:00 PM (6 wks) Feb 03 to Mar 09
Trinity Church Hall, 196 Church Street, Liverpool

Course Description

1. Moses, Folk Song, Spirituals, and Gregorian Chant: Origins of Jazz
2. Basin Street: Dixieland
3. Shuffle off to Buffalo: The Swing Era & The Big Bands
4. Pushing the Boundaries: Thelonius Monk and Friends
5. What the Fuzack? (What do you get when you cross a jazz musician with ...?)
6. The Contemporary Scene (Beyond what you'll hear on the CBC...)

Instructor Biography

Rev. Dr. Wendell Eisener studied music at Acadia University and pursued theological studies in Ontario. He returned to Nova Scotia in 1995 and has had a career that includes the pastoral, secular, artistic and technical. He teaches at Saint Mary's University and on occasion at the Atlantic School of Theology. An avid musician he has performed and conducted on both sides of the Atlantic.

18

Randy Olson
The Secret Sex Life of Plants

Dates, Time, and Place

The Secret Sex Life of Plants - *Randy Olson*

Tuesdays 1:00 PM - 3:00 PM (6 wks) Feb 04 to Mar 10

Douglas Street Recreation Centre, 40 Douglas Street, Truro

Course Description

This is definitely not a gardening or horticulture class, but instead focusses on the basic biological understanding of the sexual reproductive processes common to all major taxonomic groups that comprise the plant kingdom. The course will begin by providing a fundamental understanding of the two different types of cell division as they relate to the life cycle common to all true plants. The major groups of plants to be investigated include: liverworts, mosses, ferns, common gymnosperms and those that produce flowers. Even though there is a profound unity underlying all plant life cycles, the diversity and uniqueness among the various groups are the result of evolutionary adaptations and modifications.

Instructor Biography

Dr. Randy Olson is a retired professor of biology from Dalhousie University's Faculty of Agriculture. He has over 35 years of both teaching experience and research in various areas of plant biology at the NSAC and more recently at Dalhousie University's agricultural campus in Truro. His botanical research interests were concerned primarily with sexual reproduction in flowering plants and morphological reduction of flowering plants with very specialized modes of nutrition.

19 Jon Peirce

Introduction to Poetry

Dates, Time, and Place

Introduction to Poetry - Jon Peirce			
Wednesdays	1:00 PM - 3:00 PM	(6 wks)	Feb 05 to Mar 11
Douglas Street Recreation Centre, 40 Douglas Street, Truro			

Course Description

This course is aimed both at those who enjoy reading poetry and those engaged in writing it; however, its primary emphasis will be on the close reading and discussion of short poems. After considering what poetry is, we'll look at poems written in a variety of forms, including ballads, sonnets, sestinas, rondeaus, villanelles, and haiku and other Japanese forms. We'll also look at free verse and blank verse, and at certain selected song lyrics, with an eye to considering their poetic properties. Students are invited to respond to the poems either through analysis or discussion or through the writing of their own original work. Much of the material for the course will be drawn from Braid and Shreve (eds.), *In Fine Form* (2nd ed., Caitlin Press, 2016). It is strongly recommended that students procure a copy of this book prior to the first class; however, if this is not possible, alternative arrangements may be made.

Instructor Biography

Jon Peirce has been writing since his high school days. After working as a reporter and assistant editor for his college paper, he worked as a reporter for the *Springfield (Mass.) Union* before coming to Halifax to do an M.A. and a Ph.D. in English at Dalhousie. While in graduate school, he worked briefly as editor of the *Amherst (N.S.) Daily News* and read a number of his free-lance pieces on CBC Radio in both Halifax and Moncton. He has taught at Susquehanna University, Central College, and Queen's University, where he developed a writing program. Active in the literary community in Ottawa, where he lived and worked for many years, Jon has facilitated a number of writing- and editing-related workshops for the Ottawa Independent Writers. His book of essays, *Social Studies*, was published by Friesen Press of Victoria, B.C. in 2014. He is also the author of *Canadian Industrial Relations*, an introductory industrial relations text which ran to three editions after its initial publication by Prentice-Hall Canada in 1999. He is a professional member of the Writers' Federation of Nova Scotia.

For many years, Jon has run his own free-lance writing and editing business, Jon Peirce Editorial Services. His articles, book reviews, and essays, on a broad range of subjects, have appeared in such periodicals as *The Globe & Mail*, *Old Farmer's Almanac* (Canadian edition), *Christian Science Monitor*, *Books in Canada*, *Toronto Star*, *Ottawa Citizen*, *Winnipeg Free Press*, *Kingston Whig-Standard*, *Dalhousie Review*, *Halifax Magazine*, and *Halifax Chronicle-Herald*.

Jon has taught a number of writing courses as well as a Canadian Literature and Introduction to Poetry course for SCANS over the past few years. An actor as well as a writer, he has appeared in five plays at Bedford Players, Dartmouth Players, and Theatre Arts Guild. He's currently working on two plays (both comedies) as well as a memoir and a second book of essays.

20 Phil Warman Climate Change?! Local Issues that Affect Us All

Dates, Time, and Place

Climate Change?! Local Issues that Affect Us All - <i>Phil Warman</i>			
Thursdays	1:00 PM - 3:00 PM	(6 wks)	Feb 06 to Mar 12
Douglas Street Recreation Centre, 40 Douglas Street, Truro			

Course Description

This course is designed to present a number of different interrelated topics concerning climate change and our environment. These topics will be introduced by the instructor, with appropriate background material. Students will be encouraged to seek additional related material to be used in class. We will discuss the following: Fracking and gas cavern storage (the Alton gas project); Renewable energy for electricity, transportation and heating (solar, wind, tidal, water, wood-fired, phase change); Sustainable land application of solid 'wastes' (agricultural, municipal, industrial) to include composting; Sustainable forestry, biomass production and the impact of foreign pests on forest management; Carbon tax and carbon capture by plants and soils; Coastal erosion and remediation. A wrap-up of the course will indicate whether the students' opinions of the issues have been altered.

Instructor Biography

Dr. Warman has a PhD degree in Soil Biochemistry from the University of Guelph. In the 1970s, he was an organic fruit and vegetable farmer near Tavistock, Ontario and Rigaud, Quebec; since 1982, he has researched the use of various organic amendments at his property in Nova Scotia. He is the second recipient of NSAC's Lifetime Research Award (1997). Dr. Warman is author or co-author of more than 105 peer-reviewed scientific and technical papers and over 20 technical reports including over 50 papers on compost and composting. He has taught "Compost Science and its Utilization" since 1993 to undergraduate & graduate students, extension personnel and technicians both here in NS and internationally. Dr. Warman is the President and CEO of Coastal BioAgresearch Ltd. (CBA), a federally incorporated research and development company. Through CBA, he was Co-Chair of the International Composting Symposium held in September 1999 and Co-Editor of the Proceedings of the Symposium published in 2000. He is now Adjunct Professor at Dalhousie and McGill University where he supervises post-graduate students and instructs graduate modules.