

### Celebrating 50 Years of

### **CONTINUING EDUCATION**

Daytime Noncredit Courses for the Public Sponsored by

The Alumnae of Northwestern University Engaging Minds, Enriching Lives

## **Spring Quarter 2019**

Tuesdays and Thursdays, April 2 – June 11

Online registration for Spring 2019 courses is now available.\* Registration by U.S. Mail is no longer accepted.

### A. New Frontiers in Science

Faculty from the McCormick School of Engineering, Weinberg College of Arts & Sciences, and Feinberg School of Medicine Tuesdays, 9:30-11:30 a.m.

- B. History Through Opera
  Drew Davies, Associate Professor, Musicology
  Tuesdays, 12:45-2:45 p.m.
- C. The Problem of Poverty in American Culture Henry Binford, Associate Professor, History Thursdays, 9:30-11:30 a.m.
- D. Martin Buber: Philosopher, Theologian, Prophet Claire Sufrin, Associate Professor of Instruction, Religious Studies
  Thursdays, 12:45-2:45 p.m.

\*In person registration is available at the Norris Box Office. For instructions on how to register, please visit www.nualumnae.org

Most courses are held in Norris University Center on the south campus. Visit us at our website: nualumnae.org

### ABOUT NU ALUMNAE CONTINUING EDUCATION

**Alumnae Continuing Education** is a program of university level non-credit courses taught by members of the Northwestern University faculty. Established in 1968, this unique program is organized and run entirely by volunteers, all alumnae of Northwestern University.

**Alumnae Continuing Education** is open to everyone. It provides a stimulating opportunity for interested adults to gain a broad knowledge in many fields. All profits are given to the University in the form of scholarships, fellowships, and grants for carefully selected projects.

### Online Registration for Spring 2019

To register online for a course, go to the Norris Center Box Office: nbo.northwestern.edu

If you need help with registering online, please download the file *Instructions to Set Up a Norris Box Office Online Account for Alumnae of NU Course Registration* on our website: www.nualumnae.org/continuing\_ed

If you prefer, you may **register in person** at Norris Center's Box Office.
Please check the Norris Box Office website for hours of operation:

norrisboxoffice@northwestern.edu or call them at 847-491-2305

Registration by U.S. mail is no longer accepted.

### **Class Location Information**

Most of our classes are held in Norris University Center on south campus; however, space, construction, and other scheduling problems may necessitate changes. If there is a change in venue, information will be mailed with your course entry card and also will be given on our website. Classes are rarely canceled because of bad weather or for any other reason, but we **strongly recommend** that you routinely check our website or voicemail before heading for class to check if there are any changes.

## The Alumnae Continuing Education Program SUMMER 2019 PREVIEW of COURSES

Tuesdays, June 25 – July 30

A. Americans and the Holocaust: A Difficult History

**Daniel Greene**, Adjunct Professor, History, Guest exhibition curator at the US Holocaust Memorial Museum

B. American Art: Cultural Encounters Roberta Katz, Adjunct Lecturer, School of Professional Studies

Honoring our Northwestern Faculty for "Engaging Minds, Enriching Lives" 675+ classes over 50 Years

Last year alone:

14 courses
25 NU professors
3,300 registered students
and
\$250,000 in ALUMNAE awards
for faculty as grants and students as
fellowships, scholarships & internships

We couldn't have done it without you! To all of our participants,

THANK YOU!

### A. New Frontiers in Science

Faculty from the McCormick School of Engineering, Weinberg College of Arts & Sciences, and Feinberg School of Medicine

Tuesdays, 9:30-11:30 a.m., Norris University Center

Professors will discuss exciting advances in science that have expanded our understanding of materials science and engineering, genetics, medicine, chemistry, astronomy, neurobiology, planetary sciences, pharmacology and more. World-class researchers at Northwestern have led the way in these advances and are continuing to explore discoveries that will push us beyond existing boundaries of scientific understanding.

### Apr. 2 Welcome! As We Bravely Move into New Frontiers . . .

**Jay Walsh,** Northwestern University's Vice President for Research

The Future of Body Integrated Electronics-Deformable, Biodegradable and 3-Dimensional John Rogers, Louis Simpson and Kimberly Querrey Professor of Materials Science and Engineering

The human body is mechanically soft, with complex, 3D curvilinear shapes; modern electronic technologies are rigid, with simple, 2D layouts. Technologies that eliminate this profound mismatch in physical properties create opportunities for devices that can intimately integrate onto/into the body for diagnostic, therapeutic or surgical function with important, unique capabilities in biomedical research and clinical healthcare. This talk will summarize the latest advances through several examples of devices in clinical use at Lurie Children's Hospital, Prentice Women's Hospital, and the Shirley Ryan AbilityLab.

Apr. 9 Genetics and Gene Editing: Hype or Hope?
Dr. Elizabeth McNally, Elizabeth J. Ward Professor of Genetic Medicine; Director, Center for Genetic Medicine

Genetic variation underlies many human disease conditions. It is now possible to rapidly diagnose genetic conditions, and new therapies are being developed to treat genetic disorders. Gene (cont'd)

Apr. 9 (cont'd)

editing with CRISPR/Cas enables precise genetic engineering and is being developed for use in humans. It holds the potential to change the human genome for better or worse.

Apr. 16 Unorthodox Cancer Cures
Vadim Backman, Walter Dill Scott Professor,
Biomedical Engineering

Professor Backman will describe his ground-breaking research on early cancer diagnostics, the role of the three-dimensional structure of the genome (chromatin) in cancer evolution, and the potential for boosting the effectiveness of current cancer treatments by altering the structure of chromatin.

**Thomas V. O'Halloran**, Charles E. and Emma H. Morrison Professor, Chemistry

Professor O'Halloran will look at the "physical and inorganic signatures of cancer" and describe his lab's innovative approach to fighting cancer with a famous poison--arsenic.

Apr. 23 Astrophysics for the Next 50 Years
Michael Smutko, Professor of Instruction, Physics and
Astronomy

The latter half of the 20th century can be argued to have been the most revolutionary in the history of astrophysics. Looking ahead to the next half-century, Professor Smutko will explore the tools, ideas, and theories that may turn out to be equally revolutionary over the next 50 years.

### Apr. 30 NO CLASS

May 7 Sex Cells: Sex Inclusion in Biomedical Research
Teresa Woodruff, Watkins Professor of Obstetrics &
Gynecology; Director, Women's Health Research
Institute; Dean, The Graduate School

On January 25, 2016, the National Institutes of Health implemented a policy that mandated the consideration of sex as a biological variable (SABV) in all grant submissions. Much like time, temperature, and dose, sex is a key factor in assessing biological inputs and experimental outcomes. As a consequence of this guidance and the work investigators will now do, we anticipate great progress in the medical pipeline for all people.

### May 7 (cont'd)

Sex Differences in the Brain--What are they, what aren't they, and when do they matter?

**Catherine Woolley,** William Deering Chair of Biological Sciences; Professor, Neurobiology

Sex differences in the brain are real, but they aren't about who is better at reading a map or why more men than women choose to enter certain professions. Dr. Woolley will separate fact from fiction in the debate over brain sex differences and explain how neuroscience is being used and misused, with implications that range from gender stereotypes to making science and medicine relevant to everyone.

## May 14 Arctic Climate Change: Long-term Perspectives Yarrow Axford, Associate Professor, Earth and Planetary Sciences

How is the Arctic environment changing today? How unusual are these shifts when considered in a long-term perspective? Why do changes in the Arctic matter worldwide?

## May 21 The Language of the Brain Indira Raman, Bill and Gayle Cook Professor,

Department of Neurobiology

How do electrical and chemical signals sent by brain cells encrypt and decode all the information that makes us sensitive, thoughtful, active living creatures? Professor Raman will discuss these signals, which compose the language of the brain, and will talk about how the quest to understand the tiniest units of neural coding can offer insights into larger questions about being human.

### May 28 Data, Prediction, and Design for Urban Water Resilience

**Aaron Packman,** Professor, Civil and Environmental Engineering; Director, Northwestern Center for Water Research

How do data and better forecasting support nature-based strategies to avert extreme weather disasters in cities?

# Jun. 4 Regenerative Engineering--the Birth of a New Field Guillermo Ameer, Daniel Hale Williams Professor of Biomedical Engineering; Feinberg Professor of Surgery

Dr. Ameer will introduce you to a new field that aims to make regenerative medicine a reality for our health care system. The importance of convergence research to solve grand challenges, such as the shortage of organs and tissues, and the basic concepts behind regenerative engineering will be highlighted.

## Jun. 11 21st Century Medicines Inspired by Nature Karl A. Scheidt, Professor of Chemistry and Pharmacology

Where do many new medicines come from and how are natural resources inspirations for therapeutics development?



B. Opera Through History
Drew Edward Davies, Associate Professor, Musicology
Tuesdays, 12:45 p.m. – 2:45 p.m.

Myth, history, reality, fantasy, literature, song, dance, and a vital suspension of disbelief all come together in a single magical performance genre: opera. First introduced in Italy at the beginning of the seventeenth century, opera tells many different types of stories and has followed a variety of forms. Instead of telling the history of opera in ten parts, this class will invert that idea and look at how opera tells history. As such, we will look at how specific operas in different periods have told the stories of monarchs, despots, saints, dynasties, and more, often within a contentious political context. Concurrently, the class will still include many of the most important composers such as Mozart, Monteverdi, Verdi, Donizetti, Puccini, Handel, Britten, and Adams, but not in chronological order.

Apr. 2 Classical Rome

Some of the earliest operas dramatize the exploits of the central figures of classical Rome: Nero, Titus, Julius Caesar, and Mark Anthony. What are the sources of the operatic versions, and what political overtones did they have in the time of the premieres? Core repertoire: Monteverdi, *L'incoronazione di Poppea*; Mozart, *La clemenza di Tito* 

Apr. 9 The Tudors

Also the subjects of plays, films, and television series, the British monarchs of the Tudor era have inspired comedies and tragedies, not only by British composers.

Core repertoire: Britten, Gloriana; Donizetti, Maria Stuarda

**Apr. 16** Current Events

The postmodern world of the 1980s and 1990s saw a turn toward the dramatization of current events on the operatic stage, ranging from the political to the socially scandalous. Fake news?

Core repertoire: Adams, *Nixon in China*; Turnage, *Anna Nicole*; Heggie, *Dead Man Walking* 

**Apr. 23** Saints and Martyrs

As genres, operas and oratorios merge together in works about historical Christian persecution and salvation. This is especially evident in Handel's *Theodora*, an oratorio with a robust history of operatic staging.

Core repertoire: Handel, *Theodora*; Messiaen, *Saint François d'Assise*;

Honneger, Jeanne d'Arc

### Apr. 30 NO CLASS

May 7 Ancient Assyria and Persia

Opera in all periods thrives on exotic settings for the telling of archetypal stories, and since the 18th century, the near East has captured the imaginations of librettists and composers. Nebuchadnezzar, Xerxes, and the campaigns of Alexander the Great count among the most frequent stories told in opera. Core repertoire: Hasse, *Artaserse*; Verdi, *Nabucco* 

May 14 Medieval Europe

The medieval period, a favorite time period for the 19th-century Romantics to imagine the past, was the time of poet-musicians such as the troubadours who wrote about courtly love in the time of feudalism. Legend, history, and nationalism combine in operas with medieval musician characters.

Core repertoire: Wagner, Tannhäuser; Verdi, Il trovatore

May 21 Traveling West, Traveling East

To Italian audiences of the past, both America and the Far East represented far-flung lands with unique customs. How do exoticism and inter-cultural encounters play out in operas by Puccini set in these regions?

Core repertoire: Puccini, *La fanciulla del West*; Puccini, *Madame* 

Butterfly; Kálmán, Die Herzogin von Chicago

May 28 The Tsars

Prince Igor, Ivan the Terrible, Boris Godunov: figures from Russian history are presented as epic histories by 19th-century composers. Core repertoire: Borodin: *Prince Igor*; Mussorgsky: *Boris Godunov* 

Jun. 4 Popular Demand

Class participants will propose and vote on the content of this week's class.

Jun. 11 The Quest for Liberty

Some operas do not necessarily tell a historical story, but nonetheless capture the revolutionary sentiment of the times. This final class will look at operas about the quest for liberty, and draw conclusions from all ten weeks.

Core repertoire: Rossini, *Guillaume Tell*; Meyerbeer, *Les Hugenots*, Beethoven, *Fidelio* 

# C. The Problem of Poverty in American Culture Henry C. Binford, Associate Professor, History Thursdays 9:30-11:30 a.m.

This course will explore recurrent attempts to define, explain, and ameliorate poverty in the United States from the 18th century to the late 20th. Topics include: the relationship between poverty and the commercial/industrial revolution; the place of poverty in Enlightenment and Utilitarian thought; changing (and unchanging) ideas about the connections between poverty and moral character, education, unemployment, gender, and ethnic/racial inheritance; the periodic emergence of poverty as a political issue; the concept of an "underworld" or "underclass;" and the shifting rhetoric of sympathy and fear concerning poor people and poor neighborhoods in the past two hundred years.

**A reading list** will be available on The Alumnae website: www.nualumnae.org

## Apr. 4 The Problem of Poverty in England and British America

Fundamental English ideas about poverty and how to alleviate it. And the transfer of those ideas to the British colonies.

## Apr. 11 Utilitarianism, Domesticity, and the Transformation of the Poor Law

How industrialization and changing ideas about religion, character, and gender altered poor relief in England and the early United States. Chadwick, Dickens, Horace Mann, and others.

# **Apr. 18 Coping with Poverty, Coping with the Poor** Strategies of poor people, as affected by immigration. Rise of asylums and other institutions as means of dealing with mass poverty.

# Apr. 25 Cholera and the Mysteries of the City The challenge of a new disease, and the rise of "sanitary" reform. How cholera inspired new procedures and thinking in medicine, religion, and government.

## May 2 From Tenements to Blight: Progressive Visions of Poverty

The emergence of poor housing as a social and political issue. Tenement regulation in the United States and subsidized housing in England.

### May 9 Veterans, Mothers, and Social Insurance

The legacy of the Civil War in thinking about the disadvantaged. Rationales for and experiments with social insurance in both Britain and the USA.

## May 16 Suburbs, Ghettoes, Projects: the New Geography of 20th Century Poverty

Automobiles, new technology, government policy and the proliferation of exclusive suburbs. The alignment of space with racial deprivation.

### May 23 The War on Poverty

The Gordian Knot of racial discrimination and economic deprivation. LBJ, Moynihan, and the wars at home and abroad.

### May 30 The War on Welfare

How "welfare" became controversial, and how controversy drove policy.

### **Jun. 6** Remaking the Worlds of Deprivation

Where do we stand, and what are we capable of?

# D. Martin Buber: Philosopher, Theologian, Prophet Claire Sufrin, Associate Professor of Instruction, Religious Studies Thursdays, 12:45 p.m. – 2:45 p.m.

German-Jewish philosopher Martin Buber (1878-1965) is best known for his landmark book, *I and Thou* (1923), which describes two ways in which human beings relate to one another: I-It relationships, in which we treat others as objects for our own purposes; and I-Thou relationships, in which we are fully present before the other person. When Buber wrote this book, he was already well known for very different work including collections of Hasidic stories and essays about religion, history, and more. After I and Thou, his life's work included translating the Bible into German and political activism in Germany, in Palestine, and after 1948, in the State of Israel. In this course, we will consider Buber's life work in light of his biography and his historical context. We will examine the thinkers and movements who influenced him and look at those whom he influenced, including some who were deeply critical of his work. Throughout, we will consider what this 20th century thinker might have to say to us as we make our way in our own century.

### Recommended reading:

Martin Buber, *On Judaism*. New York: Schocken, 1996. Martin Buber, *I and Thou*. New York: Touchstone, 1971.

## Apr. 4 Buber's Earliest Interests: Mysticism and the Hasidic Tales

This lecture will include an overview of Buber's life and his first publications. We will focus on understanding why Buber thought that the tales told by the Eastern European founders of Hasidism—a pietistic, ultra-Orthodox Jewish movement—held the key to alleviating the alienation experienced by young, largely secular people in modern German cities

### **Apr. 11** Early Addresses on Judaism

Buber began lecturing about Judaism across the German-speaking world in 1909. We will consider his concepts of religion and religiosity and how the tension between these two ways of relating to God shaped his thinking about Judaism. We will consider how and why he deviated from more typical definitions of how a religion should function within a community.

Suggested reading: Buber's Early Addresses on Judaism may be found in the book *On Judaism*.

### **Apr. 18** The Influence of Franz Rosenzweig

Buber's closest friend and colleague was Franz Rosenzweig. In this lecture, we will consider Rosenzweig's negative review of Buber's Early Addresses on Judaism and the influence that he came to have on Buber. We will also discuss Rosenzweig's most important book, *The Star of Redemption*.

### **Apr. 25** From Mysticism to Dialogue

This lecture will introduce *I and Thou* and begin a close reading of its central arguments. It will emphasize contrasts between this work and Buber's earlier writings.

Suggested reading: Buber, I and Thou.

### May 2 Buber's Philosophy of Dialogue, continued

This lecture will continue our discussion of *I and Thou* with a focus on Buber's concept of the Eternal Thou.

Suggested reading: Buber, I and Thou.

### May 9 Buber and the Bible

In 1925, Buber and Rosenzweig began translating the Bible into German. We will consider the principles of translation they developed as they worked, as well as the books of biblical commentary that Buber wrote after Rosenzweig's death in 1929.

### May 16 Buber, Zionism, and the State of Israel

Buber was deeply influenced by the cultural Zionist Ahad Ha'am. Ha'am's ideas will be central to this lecture as we consider Buber's call for a Jewish renaissance and a Jewish state. We will consider his advocacy for a bi-national state and his criticisms of the Israeli government from the time the State of Israel was established in 1948 until his death in 1965

### May 23 Buber and Abraham Joshua Heschel

Like Buber, Abraham Joshua Heschel was a Jewish philosopher who was deeply influenced by Hasidism and who wrote in evocative terms of the beauty of the Jewish tradition. This lecture will open with a consideration of the times when Heschel's life intersected with Buber's and then consider how and why these two thinkers developed such different ideas

### May 30 Buber and Emmanuel Levinas

Emmanuel Levinas was a sharp critic of Buber and accused his philosophy of dialogue of lacking in ethics. In this lecture, we will consider what he meant by that and how his own philosophy of dialogue tried to correct the problem he saw in Buber's work.

### June 6 Buber Today

This lecture will focus on how Buber is perceived today, by Jews, Christians, and others around the world. Students will also have a chance to submit lingering questions to the instructor ahead of this lecture.

#### GENERAL PARKING AND BUS INFORMATION

- Registrants for one or more 10-week Continuing Education courses may request a parking permit for the north half of the University's Ryan Field West Parking Lot D, located off Ashland Avenue just west of the stadium. Enter West Lot D at the north end of Ashland Avenue near the intersection with Isabella Street. This permit is not valid for any other University lot. Shuttle buses between West Lot D and class locations run every 15 to 20 minutes from 8:30 a.m. until 9:45 a.m. No buses run between 10:00 a.m. and 10:30 a.m. The "Early Bird Lunch Bus" begins loading at 11:00 a.m. for afternoon students planning to eat lunch on campus before class. Buses for afternoon classes then run every 15 to 20 minutes until 12:45 p.m. There is no bus service between 1:00 p.m. and 1:45 p.m. Bus service resumes at 1:45 p.m. and continues until twenty minutes after the last class ends. which is usually 2:45 p.m. Your "D" parking permit, if requested, will be mailed with your registration card, and must be hung from the rearview mirror with the printed side visible through the windshield. We strongly encourage carpools.
- Students attending *per diem* do not receive a parking permit and may not park in Ryan West Lot D. However, per diem students may ride the shuttle buses if they arrive at the lot by other means.
- To receive a parking permit good for the course term, you must request one by checking the parking box on the appropriate page, either when you register online, or in person at the box office. The parking permit will be mailed with your class entry card before classes begin if you register by March 1. For those registering after March 1, class entry cards and parking permits will be held for pick up at the proctor table on the first day of class.

### ALTERNATIVE AND HANDICAP-ACCESSIBLE PARKING

- There is an Evanston city public parking garage four blocks southwest of Norris Center, just east of Chicago Avenue. It can be accessed from Clark Street or Church Street. (Church runs eastbound only.)
- Students with handicap license plates or placards are encouraged to park at Ryan Field West Lot D and take an Alumnae bus with a handicap lift, which delivers students to the door of Norris Center. A limited number of handicap-accessible spaces are available in the parking lot northeast of the McCormick Tribune Center. To reach this lot, enter the south campus on Campus Drive, go to the first stop sign, and turn left into the lot. In addition, there are more handicap-accessible spaces on the upper level, eastern end of the two-tier parking lot just north of the visitors' center. A visitor's parking pass is not required to park in a handicap-designated space if your vehicle has a valid government handicap license plate or placard.

### The Alumnae Continuing Education Program

**Refund Policy:** Before a refund can be issued, your registration card (and parking permit, if applicable) must be returned. Send materials to:

## Alumnae Continuing Education, P.O. Box 2789, Glenview, IL 60025

- A \$10 cancellation fee must be purchased online.
- If you withdraw from class prior to the first class meeting, a full refund, less the cancellation processing fee, will be given.
- After the first class meeting, \$30 must be purchased online in addition to the cancellation processing fee.
- After the second class meeting, \$60 must be purchased online in addition to the cancellation processing fee.
- Thereafter, no refunds will be given.
- Credits are not given for future classes.
- A transfer, at no cost, to another class offered during the same quarter is an option, provided there is space available.

**PLEASE NOTE:** Be sure to bring your class entry card to each class as it must be shown to the proctors at the entry door. In order to guarantee seating for registered students, those without their card will be given a temporary entry card, but ONE time only. After that one time, a replacement card will be provided at a fee of \$30.

#### WAYS TO STAY IN CONTACT

The Alumnae of Northwestern University Continuing Education Program

### **How to Join Our Mailing List:**

If you would like to receive the quarterly course brochure by mail, go to either our website homepage: **www.nualumnae.org** or to the Continuing Education page and click on the button "Sign Up for the Mailing List" on the left hand side of the page. This will take you to an online form to that you will need to complete. Hit "Submit" after completing the form.

**Voicemail:** (847) 604-3569

(We will make every effort to return your call within 24 hours)

On the Web: www.nualumnae.org

**Email us**: Go to "Contact Us" in the menu bar at the top of our home page on our website.

Like us on Facebook: nualumnae



Follow us on Twitter: @nualumnae



### **AUDIO SUPPORT**

McCormick Auditorium and the Louis Room are equipped with hearing loop technology for those who have compatible hearing aids or implants.

There are a limited number of headphones available upon request for those who need enhanced audio during the lectures.

### Important University Policy Notice:

In order to respect copyrights, rights of publicity, and other intellectual property rights, we forbid the taking of photographs or the making of video or audio recordings of lectures and class materials.

### **Norris Box Office Hours**

Please check the Norris Box Office website for hours of operation: norrisboxoffice@northwestern.edu or call them at 847-491-2305

After 4 p.m., campus parking is free: no permit needed.

### **COURSE REGISTRATION INFORMATION**

## Course Pricing One 10-week course \$190.00

### **Multi-Course Discounting**

2 ten-week courses	$$190 \times 2 = $380$	<b>-</b> \$25 <b>\$355.00</b>
3 ten-week courses	$190 \times 3 = 570$	- \$50 <b>\$520.00</b>
4 ten-week courses	$190 \times 4 = 760$	- \$75 <b>\$685.00</b>

To register online, go to Norris Box Office at nbo.northwestern.edu and follow the appropriate steps to enroll in the desired number of courses.

Your email confirmation from Norris Box Office verifies your registration but it is <u>not</u> your entry to class. Registrations cannot be confirmed by phone.

If your registration occurs by March 1, 2019, your class entry card and "purple sheet" with all class locations and times and parking permits (if requested) will be mailed to you about two weeks before the courses begin. If registration occurs after March 1, 2019, these items will be held for pick up at the proctor table.

In-person registration is available at the Norris Box Office, located at the Information Desk across from the McCormick Auditorium south entrance.

### Enrollment is limited by room capacity.

**Per Diem Students:** When space allows, **per diem students will be admitted for \$30 per class session**. If a course is at capacity enrollment, **per diem** students will receive numbered cards and be admitted at the beginning of the class as space permits. Our website identifies courses that are closed because of capacity enrollment. **Guest passes are not valid for classes that are closed.** 



The Alumnae of Northwestern University P.O. Box 2789 Glenview, IL 60025-6789

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University

First Class

Pre-Sort

The Continuing Education Program of the Alumnae of Northwestern University is staffed by volunteer members as an educational project. All profits go to provide scholarships, fellowships, gifts and grants to the University.