



Oak Ridge Institute for Continued Learning

# Summer 2022

***ORICL - Enriching Lives Through Continued Learning***

June 6 - July 29

Online Registration Opens April 19



***ORICL... “A perfect blend of those who love to learn with those who love to teach”***



# Information about ORICL

**Oak Ridge Institute for Continued Learning** is sponsored by Roane State Community College. ORICL is administered by a board of directors elected by its membership. Roane State provides classrooms, an office, and administrative support. Residents of Oak Ridge and the surrounding area of all backgrounds and educational levels are invited to become members. Its programs are designed to respond to the interests of the participants who may take courses, go on group trips, or join in other activities. **In order to attend ORICL classes and activities, it is necessary to join the Institute as a dues-paying member. The fee for the summer term 2022 is \$60.** In 2021 the ORICL board voted to increase the dues after maintaining the same fee for more than 11 years. ORICL still remains an incredible value in lifelong learning programs.

## Registration Procedures:

Classes and activities for the Summer 2022 term begin Monday, June 6.

**You may register online or submit a paper registration form to the office.**

**Couples:** Please submit two separate forms even if identical classes are selected.

**Paper registrations** submitted to the office will not be entered into the system until the day after online registration opens. Class fulfillment will be on a **first come, first served basis**. The earlier the paper registration is submitted, the better chance you will be accepted in the class.

**Online registration** will open at **9:00 a.m. on Tuesday, April 19**. At that time members may choose up to 10 classes. Members will be notified via email when registration opens for additional sessions beyond the initial choice of 10.

If you have any questions about the registration process, please contact the office at 865-481-8222. We will be glad to answer your questions. If you previously registered via paper form and now wish to register online, please call the office. **Class schedules** will be mailed. If you receive notification that you are on a waiting list, you will be notified if a space becomes available.

## Fees:

**Membership:** For current ORICL members who paid in Fall 2021 or Winter/Spring 2022, no membership fee is due. **New ORICL registrants must pay the Summer 2022 registration fee of \$60** before the registration choices will be honored. Call the office if you are unsure of your membership status.

**Additional Fees:** Some courses, such as art courses, may entail additional fees for materials which are nonrefundable a week before the class begins. After the receipt of acceptance into the class, please send fees to the ORICL office. All class fees are due by the first week of the term, June 6 - 10 without exception. Nonpayment results in cancellation of the registrant in the class.

***Substitutes:** Participants are asked not to arrange substitutes as there may be a waiting list.*

***Visitors:** Out-of-town guests may attend one session on a space-available basis. Call the office for availability as seating is sometimes limited.*

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## Art & Culture

### 100 Summer Earrings (in-person)

**Fee: \$10**



Join us for a fun afternoon of jewelry making and leave with 3 pairs of earrings just in time for the summer. We will be making pairs with a beach theme, a 4<sup>th</sup> of July theme, and a floral theme. This is a beginner friendly class. No prior experience needed. You will learn the proper way to open a jump ring and use a one-step looper. All materials will be included.

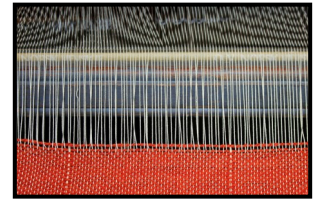
*Nicole Ferrara graduated in 2009 from California State University with a BA in Art History and a double minor in Philosophy and Studio Art-Painting. Ms. Ferrara has shown her personal art extensively in California, Washington, and New York.*

One session: Wednesday, 11:00 a.m. – 1:00 p.m., June 8  
Oak Ridge Art Center, 201 Badger Avenue, Oak Ridge

### 101 Rigid Heddle Loom Weaving-Beginner (in-person)

**Fee: \$50**

This Rigid Heddle Loom weaving class is intended for people wanting to learn to weave on the Rigid Heddle Loom. Participants are encouraged to use their own Rigid Heddle looms, but if they don't have this kind of loom, they can buy/rent one of the 18" wide, very light weight beginner types from the instructor. These small, low-priced, rigid heddle looms will allow the new weaver the option of trying to craft before investing in a higher-priced loom. The price varies by the type but is less than \$100. If at the end of the course, the student decides that weaving is not their craft or they decide they want to purchase a newer, larger, rigid heddle loom, then the instructor will buy the loom back for half the amount paid originally, provided the loom is still in good condition. Participants who already own a rigid heddle loom are encouraged to speak with the instructor about the loom before the start of the class. Students will also be charged a \$50 materials fee to cover a weaving notebook, weekly handouts, and weaving materials. In the class, students will learn how to set up the looms for weaving, warp the looms, then weave in several different patterns. The goal for each student in the beginning class is to read and understand published weaving designs.



*Andy Lyle is a native of Oak Ridge, a member of the Elm Grove Elementary Alumni Association, and a graduate of Oak Ridge High School and UTK. She has been weaving using the potholder loom since she was a child. She moved onto larger looms in the 1980s. She is a member of the Foothills Craft Guild and the Kentucky Guild for Artists and Craftsmen.*

Eight sessions: Wednesdays, 1:00 p.m. – 4:00 p.m., June 8, 15, 22, 29; July 6, 13, 20, 27  
This class will be held at the Oak Ridge Art Center, 201 Badger Avenue, Oak Ridge

Thank you for contacting the ORICL office when you cancel a class. It is a courtesy to the class instructors, the trip leaders, the office staff, and especially to those on the waiting lists!



**102 Introduction to Zentangle® (in-person)****Fee: \$10**

Zentangle® is a fun, easy to learn, and relaxing method of drawing beautiful images with structured patterns. It differs from “doodling” in that every Zentangle® stroke is mindful rather than mindless; it is a meditational art form. One does not have to know how to draw to create Zentangle® art; anyone of any age that can hold a pen can learn to tangle. The Zentangle Method® provides a series of steps to engage your eye/hand coordination and allows you to create art without a need for planning, or concern for the outcome. Practicing Zentangle® has been shown to improve focus and concentration, to lessen anxiety, depression, and insomnia, and to help with pain management. In this class we will learn the basics of the Zentangle Method® and how using a few simple patterns and techniques can produce a unique and beautiful piece of art. Note: this class is a prerequisite to other Zentangle® classes offered by ORICL.



*Gerry O'Neill is a Certified Zentangle Teacher® who has been practicing Zentangle® and making Zentangle®-Inspired Art since 2014. She also spent many years teaching Hawaiian Quilting in the Southeast, in addition to designing and selling original Hawaiian Quilt patterns. She has won several awards in local and national Quilt shows and her quilts have been featured in several quilting magazines. She taught for the Taoist Tai Chi Society® for more than 10 years. Gerry has a BA in Botany and a PhD in Ecology from the University of Tennessee, retiring from the Environmental Sciences Division at Oak Ridge National Laboratory in 2001.*

One session: Wednesday, 11:00 a.m. - 1:00 p.m., June 8

**103 Zentangle® – Beyond the Basics (in-person)****Fee: \$10**

This series of classes will explore some of the basic techniques taught in the Introduction to Zentangle® class in greater depth, in addition to introducing new techniques. You will learn how to use different “strings” to structure your Zentangle® art, practice different shading techniques, and learn how to recognize and use different types of tangle in your designs. We will have at least one “free tangling” session for students to express themselves within the framework of a guided design. This class is open to any student who has completed the introductory class or has had prior experience with the Zentangle Method®. Previous students are welcome. In all classes, students are encouraged to give free rein to their own creativity.

Students should bring all materials and tools from the Intro class, including folder and handouts. Additional Zentangle® supplies will be provided by the instructor and are covered by the fee.

*See bio for Gerry O'Neill above.*

Four sessions: Wednesdays, 11:00 a.m. - 1:00 p.m., June 15, 22, 29; July 6

**Volunteers are needed to serve on the Curriculum Committee. Please consider helping locate, recommend, and contact potential instructors. We are always looking for new teachers to enrich the ORICL experience.**

## 104 Zentangle® – Dingbatz! (in-person)



Dingbatz is related to an old typographer's tradition of adding embellishments, called dingbats, to their printing. The Zentangle® version is called Dingbatz and can be drawn simply as a piece of art, or added to holiday cards, envelopes, journals, invitations, and many other items. In this class we will learn the basic principles of creating Dingbatz, then start two projects. The first will be on a tile or in your sketchbook (your choice) and the second will be an envelope (or a card).

**There will be a supply list sent out a couple of weeks before class begins.**

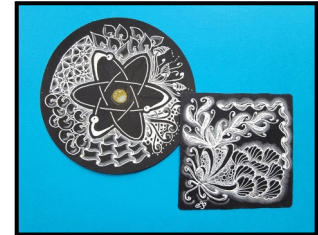
*See bio for Gerry O'Neill on page 5.*

One session: Wednesday, 11:00 a.m. - 1:00 p.m., July 13

## 105 Zentangle® - Black Magic (in-person)

**Fee: \$10**

Unlike traditional tangling on white paper, working on a black background requires specialized techniques and materials. A completed piece will look very different from black and colored pens on white tiles, and can be quite ethereal. You will learn some of these techniques for making designs appear to be 3-dimensional and glowing on the black background. Anyone who has completed an introductory class taught by a CZT (including recent graduates of the introductory class earlier this summer), or who has experience in the tools and traditions of the Zentangle Method® will enjoy this class.



*See bio for Gerry O'Neill on page 5.*

One session: Wednesday, 11:00 a.m. - 1:00 p.m., July 20

## 106 Art a la Carte Film Series (in-person)



Art a la Carte is a series of brown-bag luncheon learning programs designed for those interested in arts – both artists and art appreciators. Films concentrate on art history, museum collections, interviews with artists and/or demonstrations by various artists, and the creative muse or spirit. In the summer timeframe, we will be showing films from the Exhibition on Screen Series. These remarkable films delve into the life and work of great artists from around the world. The series is held the fourth Friday in each month at 12

noon. Each session runs approximately one hour. Some films will be shown in two parts with plenty of overlap to help viewers orient themselves with the storyline. Join us for this fascinating and illuminating series.

Two sessions: Fridays, 12:00 p.m. – 1:00 p.m., June 24; July 22  
Oak Ridge Art Center, 201 Badger Avenue, Oak Ridge

**107 Platters with Plants (in-person)****Fee: \$55**

Students will work with clay slabs to make one large platter. They will learn to roll out slabs, and add decorative designs and embellishments using leaves or flowers (vegetation) by pressing them into the surface of the clay. Pieces will be formed in one session, the decorative textures and forms will be added, then bisque fired before students glaze the pieces in the third session and then the piece will be fired again. The class will agree on a day for a pick-up session to retrieve their pieces. Classes will meet in the pottery studio at the Oak Ridge Art Center. Students should wear washable clothes and shoes and be prepared to play in the “mud.”



*Bill Capshaw is a member of the Advisory Board of the Oak Ridge Art Center, where he oversees the planning and operation of the pottery studio and teaches beginning to advanced classes. He received a Bachelor of Fine Arts (Ceramics) in 1971 and a Master of Fine Arts (Printing Process) in 1974. In addition to teaching at the Art Center, he has given workshops at facilities such as the Appalachian Center for Crafts, Arrowmont, John C. Campbell Folk School, and Vanderbilt University. As a professional artist, he competes locally and on a national level, has received many awards, and is represented in many museum collections.*

Four sessions: Thursdays, 9:00 a.m. – 12:00 p.m., June 16, 23, 30; July 7  
Oak Ridge Art Center, 201 Badger Avenue, Oak Ridge

***Please be sure and thank the instructors for their time and effort in preparing and presenting for ORICL Courses. Since they are not compensated monetarily, their “pay” is through your interest and participation.***

**Remember, if any scheduling changes are made after the catalog goes to print, they will be in your printed schedule. Please keep your schedule and calendar with your catalog so you can refer to them throughout the term.**

**You may register for classes after the term has begun if classes are not full. We discourage participants showing up to classes without being registered for several reasons: the class may be full, there may not be enough handouts, or you would not be notified if the class cancels or the start date or location of the class changes.**



## Finance

### 200 Stock Investing for Income - Repeatable Income, Long Term Income & Short-Term Income (online - ZOOM)



Stock Investing for Income will explore new and proven tactics to generate income from stock investments ranging from short term COMMISSION FREE trading tactics (a practice referred to by the instructor as Do the 1NE Thing), investing long-term in stocks to generate dividend income. Dividend investing will focus on generally reliable dividend stocks yielding 3% to 6% (or more) per year. There will also be discussions and presentations using options such as Covered Calls to generate short term income. Class will be conducted

using presentations, a stock and trading platform called Paper Money (ThinkorSwim). Paper Money platform is available for trial from TD Ameritrade. Information from major brokerages will also be provided.

*Steven Earhart is a private investor managing his own portfolio. He participates in, hosts investing group interaction sharing strategies, and discusses different approaches to investing. He likes to share ideas and information with ORICL members and likewise, wishes to learn other's strategies. He is not a financial advisor or employed by a brokerage/investing company. While investing and managing his own monies, he has learned successful strategies and would like to share his knowledge. Steven holds a BS in Business Administration and a BS in Engineering Technology from ETSU and a MBA from Elon College.*

Five sessions: Tuesdays, 11:00 a.m. - 12:10 p.m., June 7, 14, 21, 28; July 5

#### **REMEMBER!**

**Roane State Security will issue a \$20 ticket if you are not parked in a legal parking space with a current ORICL hang tag on your rear-view mirror.**

**This means no parking in driving lanes, spaces marked "visitor", next to the curb, or "unpainted" parking spots. If you forget your hang tag (which enables you to park in the faculty lots A and B), you will need to obtain another parking sticker in the office. If you are new to ORICL, come by the office to get a hang tag if you would like to take advantage of this benefit.**

**Your current parking permit is valid until the beginning of fall semester 2022.**

## History

### 250 World War I: “The Great War” (in-person)

This course will be the conclusion of the course that began in fall 2021, and continued during winter-spring 2022. This course will be four weeks long, with two lectures being presented each session. The lectures will be from *The Great Courses*, lectures by Gabriel Liulevicius, University of Tennessee. Richard Wright’s uncle, Roy Fox, served as a private in the 351<sup>st</sup> Infantry, 88<sup>th</sup> Division in World War I. During one mission, he was gassed severely, the effects of which he suffered throughout the rest of his life. Roy died in 1938, the year Richard was born.



*Richard Wright received a commission in the U.S. Naval Reserve in March 1961. He served as an instructor in physics and mathematics at the U.S. Naval Nuclear Power School from 1961-64. He received an MS in mathematics from Emporia State University in 1965. He was employed by Union Carbide at K-25 from 1965-69 and then worked at ORNL from 1970-2000. He was employed as a consultant with the Nuclear Science and Technology Division at ORNL in 2005-2006 and is now retired.*

Four sessions: Tuesdays, 9:30 a.m. – 10:40 a.m., June 21, 28; July 5, 12

### 251 Traveling to Swabia: An Adventure Across Time (in-person)

A presentation for ORICL based on the book, *I am Gisele: Empress*, by Alex Gabbard

Swabia, also known as Allemania (“all men”), was located west of Bavaria and was similar in size. It was formed as an amalgam of various tribes following the fall of the western Roman Empire during the late 400s C.E. Swabia, as well as Bavaria, became a major duchy of the Holy Roman Empire and existed for over 1000 years until overrun by Napoleon’s army in the early 1800s. During the eleventh century, Gisele, the middle daughter of the Duke and Duchess, became the most remarkable woman of the High Middle Ages. Gisele, along with her older sister Mathilde and her younger sister Beatrix, was described as “exceptionally beautiful” – a trait inherited from their mother, Royal Princess Gerberga of Burgundy. In their privileged royal childhood, Mathilde and Gisele were very close, even marrying within one month of each other – Mathilde at age 13 and Gisele at age 12. These marriages were the means by which political differences between and among powerful families were resolved and strengthened during the Middle Ages. They also entwined future generations and is the stuff of Hollywood: war, murder, political intrigue, tragedies, and lost love. Mother of nine, Gisele became Queen of Germany, Queen of Italy, and Queen of Burgundy. She then rose to be Empress of the Holy Roman Empire with her third husband, Emperor Conrad II.



*Alex Gabbard is originally from Berea, KY, where his early life rotated between a small college town with his father and a tobacco farm in the mountains of North Carolina with his mother. He became a special weapons expert during the Vietnam era, then attended college and worked as a physicist at the Oak Ridge National Laboratory from which he has recently retired. Alex is a widely published author; his book, *I Am Gisele: Empress*, the only book that has been published about the life of Gisele of Swabia.*

One session: Monday, 9:30 a.m. - 10:40 a.m., June 13

## 252 Native American History (hybrid)

This class will be a combination of lectures and videos.

Week #1: Sequoyah – The Man Lecture

Week #2: Sequoyah’s Syllabary Lecture

Week #3: The Spanish Invasion, Warner Brothers Production of “500 Nations”

Week #4: After the Mayflower PBS production “We Shall Remain”

Week #5: England vs France & US Revolution Warner Brothers Production “500 Nations”

Week #6: Fort Loudon-Forsaken by God and Man lecture and film ET PBS

Week #7: Tecumseh’s Vision “We Shall Remain”

Week #8: The Great Indian Wars (Video) for America’s Great Plains

Week #9: The Great Indian Wars (Video continued)



*Wes Hibbert’s interest in Native American history began while in college studying history. He earned his BA in history, political science and education from Kansas Wesleyan University. He spent a brief period teaching and then moved on to a career in contract management at several hospitals. Since retirement he has continued to learn and teach history of the Native Americans. He has shared his presentations at many locations in New Jersey and now in Tennessee.*

Nine sessions: Wednesdays, 9:30 a.m. - 10:40 a.m., June 8, 15, 22, 29; July 6, 13, 20, 27; August 3

## 253 The Grim Reaper’s Toll: An Examination of Civil War Casualties and their Impact on the Nation (in-person)



The numbers of killed and wounded soldiers are staggering, but they don’t tell the complete story of the tragedy of the war. Communities, large and small, North and South, had to adjust to the loss of so many and to help the wounded recover. Families and individuals had to rebuild their lives after the fighting was over. We’ll discuss many of the issues generated by the fighting and how Americans coped with its aftermath.

*Tim Vane served in the US Army for more than 20 years and retired as a Lieutenant Colonel. During his time on active duty he participated in Operation Just Cause (Panama), the First Gulf War and Operation Uphold Democracy (Haiti). He earned his BA from La Salle University and MA from California State University. His military education includes the Field Artillery Basic and Cannon Courses, the Infantry Officers Advanced Course, the Defense Information School and the Command and General Staff School. Tim Vane retired from ORNL in 2014, he now owns his own consulting company and is co-owner of How2LeadUS which teaches leadership development to businesses and organizations. The company uses Civil War battlefields as the classroom and often uses re-enactors and equipment as part of the instruction.*

One session: Tuesday, 11:00 a.m. - 12:10 p.m., July 12



## 254 Wounded at Chickamauga (in-person)

A presentation for ORICL based on the book, Devil Bullet, by Alex Gabbard.

A true story. During the first shots of the Civil War battle along northern Georgia's Chickamauga Creek valley, Union Pvt. Squire Combs of the 8<sup>th</sup> Kentucky Volunteer Infantry was among the first casualties. His story is the focus of the book and this presentation. Combs had left his home in Owsley County, Kentucky, on September 24, 1861, to fight the growing threat of Confederate raiders. Throughout the following two years, disease and death constantly surrounded him; however, he survived to face the Confederate Army at the Battle of Chickamauga. There he was shot through the head, left for dead, and trampled by hordes of Confederate soldiers in their victorious assault against the Union formation. A burial detail found Pvt. Combs that night – alive. Blind thereafter, his life and beyond is the subject of the book. Beginning three years after the war, a sympathetic neighbor girl, twelve years his junior, chose to become his wife. Six children born to them brings their story into the 20<sup>th</sup> century through their last daughter, Isabell, the author's grandmother.

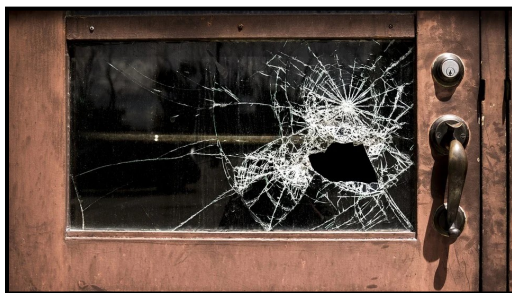


See bio for Alex Gabbard on page 9.

One session: Monday, 9:30 a.m. - 10:40 a.m., June 20

## 255 Murder and Mayhem in East Tennessee (in-person)

My book, Murder & Mayhem in East Tennessee, published by The History Press, will be discussed followed by a question and answer period. The book has 13 chapters containing stories that had either interesting subplots or historical significance.



From the book cover, "East Tennessee is gorgeous country, but the hills and hollers have a dark side. James Earl Ray, who had already assassinated Dr. Martin Luther King, Jr., created mayhem at Brushy Mountain State Penitentiary when he led six other men in a short-lived escape. Several thousand Cherokee Indians from East Tennessee were forced on what would later be called the "Trail of Tears." In the 'Hankins Murder Case' and in the triple killings in Oliver Springs, chaos and confusion resulted from the wrongful arrest and public accusations of innocent people. Jake and C. H. Butcher brought bedlam with their banking scandal that at the time was unsurpassed in scope in the nation's history."

*Dewaine Speaks earned a BA with a major in Economics from the University of Tennessee where he played outfield for the Volunteers baseball team. He retired after a career in marketing of industrial equipment, domestically and internationally. He was a member of the United States Air Force and the Tennessee Air National Guard and served 17 years in the East Tennessee Veteran's Honor Guard.*

*The History Press has also published the following books written by Speaks: Historic Disasters of East Tennessee, Weston Fulton in Tennessee: Edison of the South and East Tennessee in World War II.*

One session: Monday, 1:00 p.m. - 2:10 p.m., June 27

## 256 Walking with Hidden History (in-person)

Mike Stallo says, "I have been walking around the Cemesto neighborhoods of Oak Ridge for most of my 55 years. In more recent years I have looked at them from a whole new perspective, asking myself what was it like in these neighborhoods during the 1940s? Who lived in these houses? I would like to share some stories and information about those people, who they were, and of course where they lived." Participants may bring tripod collapsible stools if standing for a long time is problematic.



*Mike Stallo's career in records management at DOE transitioned into a reputation as a historian for Oak Ridge and then a staff position at the Oak Ridge Public Library. Mike currently manages the "Oak Ridge Room." He was president of the Oak Ridge Heritage & Preservation Association the founding year of the Oak Ridge History Museum and continues his board membership. Mike also contributes to Ray Smith's popular "Historically Speaking" column on occasion. He will be an excellent guide through the heritage neighborhoods of our city. The Oak Ridge Room digital collection includes photographs, documents and letters. In the physical collection at the library are primary and secondary resources on Oak Ridge, Manhattan Project and atomic history including documents, letters, reports, articles, photographs, artifacts, maps, school annuals, newspapers and books.*

Two sessions: **Session A: Tuesday, 9:30 a.m. - 10:40 a.m., June 7**  
**Session B: Thursday, 9:30 a.m. - 10:40 a.m., June 9**

**Register for one session only. Directions will be given for carpooling and meeting place prior to the class.**

**E-mail Addresses**

**Please make sure the ORICL office has your up-to-date e-mail address. E-mail communication is the primary way information is disseminated to the collective group and individual members.**

**Class Assistants Needed!**

When filling out your class registration form, please consider volunteering to be a class assistant for one or more classes. For those of you who may be concerned about classes in which audio-visual equipment is to be used, we can provide one-on-one instruction as the need arises. Each classroom has illustrated instructions and there will also almost always be someone available in the class who is familiar with the equipment.

## Language

### 300 Latin - Intermediate (in-person)

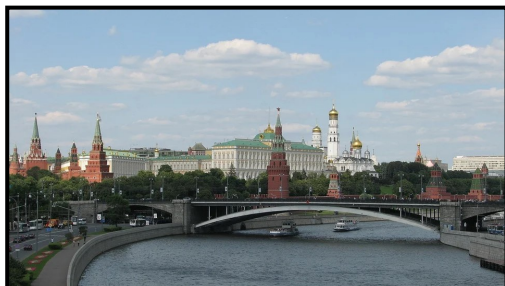
This intermediate level class will continue on from the winter/spring 2022 term using the Ecce Romani series of books. Additional readings and grammar will be added using Latin Via Ovid as the main textbook plus stories for translation from numerous other sources.

*Bill Moore received a BS in electrical engineering, BA in English from Texas A&M, and PhD in Experimental Psychology at the University of Houston. He has worked in a variety of settings, including NASA, private industry, and academia. The latter includes post-doctoral work at Duke, and posts at MTSU, Drake University and Marshall University. He retired from active teaching several years ago, and has been doing some online courses since. While at Marshall he was fortunate enough to take two years of Latin from two excellent teachers.*



Eight sessions: Thursdays, 2:30 p.m. – 3:40 p.m., June 9, 16, 23, 30; July 7, 14, 21, 28

### 301 Russian I (in-person)



Russian (a highly inflected distant cousin of English) is the fifth-most spoken language in the world. It is the mother tongue of millions of people in global power (the Russian Federation) spanning 9 time zones and 1/8 of the world's surface, and by millions more in post-Soviet countries and a large diaspora. It is the language of a rich literary tradition, as well as scientific and economic developments – and that's without getting into its political importance. This class is intended

for those who know no Russian at all. Learners who want a refresher course are welcome but should be aware that we'll be starting at the very beginning. A continuation course will be offered in future terms. We will begin with the basics of the alphabet and pronunciation and continue with grammar and reading practice. The emphasis will be in reading comprehension (and thus translation) but students will learn to speak and understand spoken Russian. There will be homework, perhaps an hour or 90 minutes a week.

We will use The New Penguin Russian Course by Nicholas J. Brown (ISBN 978-0-140-12041-7); it's available online at Amazon, Barnes & Noble, and Books-a-Million, and the local BAM can order it. I recommend students also buy a verb book (e.g. 501 Russian Verbs or The Big Silver Book of Russian Verbs) and a grammar reference (e.g. Russian Grammar by I.S. Milovanova or Essential Russian Grammar by Brian Kemple), but these are not necessary. Students may also want a Russian-English dictionary; I recommend the Oxford dictionary. Students who have access to the internet will be directed to resource sites.

*Karen Davis worked for the federal government for 42 years. All of that time was spent speaking or translating Russian or Ukrainian. For the last 12 years she has taught languages to DOD personnel. She scored 4s in reading on the Interagency Language Roundtable scale (near-native) in both languages.*

Eight sessions: Wednesdays, 2:30 p.m. – 3:40 p.m., June 8, 15, 22, 29; July 6, 13, 20, 27



### 302 Russian II (online - ZOOM)

This course will be a continuation of **Russian II** which was offered in the winter-spring term. We will pick up where that class left off. Students familiar with Russian are welcome to join us but should be aware that we will be at a rather basic level, with a thorough review of verbs of motion and prefixes. We will continue to use The New Penguin Russian Course by Nicholas J. Brown (ISBN 978-0-140-12041-7); it's available online at Amazon, Barnes & Noble, and Books-a-Million, and the local BAM store can order it. There will be homework, perhaps an hour or 90 minutes a week.



*See bio for Karen Davis page 13.*

Eight sessions: Thursdays, 1:00 p.m. – 2:10 p.m., June 9, 16, 23, 30; July 7, 14, 21, 28

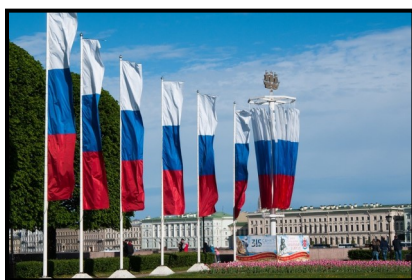
### 303 Russian III (in-person)

This course will be a continuation of **Russian III** which was offered in the winter-spring term. We will pick up where that class left off. Students who are very familiar with Russian are welcome to join us; we will do a thorough review of participles and verbal adverbs. We will be using the two books Conversational Russian Dialogues by LingoMastery (ISBN 978-1-951949-03-7) and Russian Short Stories for Beginners (ISBN 978-1-951949-00-6); they are available online at Amazon, Barnes & Noble, and Books-A-Million, and the local BAM store can order them. There will be homework, perhaps an hour or 90 minutes a week.

*See bio for Karen Davis on page 13.*

Seven sessions: Mondays, 1:00 p.m. – 2:10 p.m., June 6, 13, 20, 27; July 11, 18, 25

### 304 Russian IV (in-person)



This course will be a continuation of **Russian IV** which was offered in the winter-spring term. We will pick up where that class left off. We will continue to use Conversational Russian Dialogues by LingoMastery (ISBN 978-1-951949-03-7) and we will be beginning Short Stories in Russian by Olly Richards and Alex Rawlings (ISBN 978-1-473-68349-5); they are available online at Amazon, Barnes & Noble, and Books-a-Million, and the local BAM can order them.

Anyone is welcome to join us. We will have finished with grammar exercises and will be reading and translating; you should be reading at B 1 level (ILR).

*See bio for Karen Davis on page 13.*

Seven sessions: Mondays, 2:30 p.m. – 3:40 p.m., June 6, 13, 20, 27; July 11, 18, 25

## Literature

### 350 Fiction Book Group (hybrid)

The Fiction Book Group encourages its members to read and discuss the fiction of the last several decades. We read the recent winners of the National Book Award, the Pulitzer Prize, and the Booker Prize, the PEN/Faulkner Award, and other literary prizes. Members recommend books they have read and the final selections are made by majority vote. Join us to discover some new authors and titles to enjoy. You'll like the lively, informal discussions and the insights offered by the avid readers in this group.



June 23: [The Lincoln Highway](#) by Amor Towles

July 28: [Klara and the Sun](#) by Kazuo Ishiguro

*Class coordinator is Kay Moss. **This book group is a hybrid group (both in-person and via ZOOM).***

Three sessions: Thursdays, 1:00 p.m. – 2:10 p.m., June 23; July 28; August 25

### 351 Let's Read a Mystery (online - ZOOM)



Why do we love a mystery? For some it is the process of watching something so artfully concealed be slowly revealed. Many of us like a genuine surprise, something we didn't see coming; yet something, once it is revealed, we realize is inevitable. We appreciate an interesting crime that needs resolution. We crave the intellectual challenge of solving a puzzle. We enjoy being caught up in the cat-and-mouse game between the "good guys" and the "villains" in a thriller. We appreciate following the protagonist through dangerous situations, knowing we are safe. For our mystery group, murder and mayhem can be lots of fun! Join us if you dare.

May: [The Night Tiger](#) by Yangsze Choo

June: [Hannah's War](#) by Jan Eliasberg

July: [The Outsider](#) by Stephen King

August: [The Widow](#) by Fiona Barton

*Class coordinator is Claudia Earhart. **This book group meets online via ZOOM.***

Four sessions: Tuesdays, 4:00 p.m. – 5:10 p.m., May 24; June 28; July 26; August 23

**Thank you for contacting the ORICL office when you cancel a class or trip. It is a courtesy to the class instructors, the trip leaders, the office staff, and especially to those on the waiting lists!**

## 352 Nonfiction Book Group (online - ZOOM)

Nonfiction ranges widely: politics to biography, history to natural science, adventure to psychology, sociology to business – we read them all. Here’s an opportunity to discover the ever-changing and evolving “facts” (and opinions) expressed by the “experts” in subjects of personal and/or general interest. Members recommend books they have read with final selections made by majority vote. Come join us and surprise yourself by reading some titles you might never have considered – PLUS enjoy lively discussions that often stimulate additional thoughts on these subjects from a plethora of members’ experiences and viewpoints.



May 19: Sapiens: A Brief History of Humankind by Yuval Noah Harari

June 16: Age of Gold by H. W. Brands

*Class coordinator is Denny Lay. This book group meets online via ZOOM.*

Three sessions: Thursdays, 10:00 a.m. – 11:30 a.m., May 19; June 16; July 21

## 353 Classic Literature Revisited (online - ZOOM)



Are there well-known books considered classics that you haven’t read but would like to explore? Might there be some lesser-known titles by well-known authors that could be added to the list of their more famous works? What do these books and authors say to you now? Do they have a timelessness that applies to today’s life and times or are/were they just a good story? What makes a book a classic?

Join the classics book group and discuss classic literature with the view of challenging each other for new insights into old favorites. The group reads mainly novels first published fifty or more years ago that are still in print and/or easily obtained. We read prize-winning books by prize-winning authors. We read books that were best-sellers in their time, were recognized as best then, and often still are. Come join us and bring your own suggestions of books and authors for future reading!

June 13: The Sound and the Fury by William Faulkner

July 11: We Have Always Lived in the Castle by Shirley Jackson

August 8: Snow Country by Yasunari Kawabata

*Class coordinator is Janice Watkins. This book groups meets online via ZOOM.*

Three sessions: Mondays, 1:30 p.m. – 2:40 p.m., June 13; July 11; August 8

**\*\*FRIDAY ALERT\*\***

**There will be no Friday classes on the Roane State Community College, Oak Ridge campus this summer. Classes held off-site at the Oak Ridge Art Center will continue on Fridays.**



### 354 The Poem as Experience (online - ZOOM)

The Poem as Experience is reading (not writing) poetry. The participants will each receive a PDF copy of the poem by email. We'll read the poem together in silence for ten minutes, followed by a discussion, using a technique of personal sharing which will be explained in detail. We will usually read one poem per session. Class members may send a poem via e-mail for reading in later sessions of the class. Foreign language and scripture texts are encouraged. This class works even better on ZOOM than it did in person.

Most (though not all) poems read will be from the latter 19<sup>th</sup> or earlier 20<sup>th</sup> century. Poets have included G. M. Hopkins, Emily Dickinson, W. B. Yeats, Rainer Maria Rilke, Wallace Stevens, E. E. Cummings, Federico García Lorca, Dylan Thomas, Margaret Atwood, Sidney Lanier, Robert Browning, and John Keats.

*Robert Richmond invented this reading format and taught it about ten times in a Quaker setting though it has no religious content. He has taught the course several times at ORICL. Bob is a retired physician. He majored in German at Harvard in the 1950s. He has read and studied a great deal of poetry since his years in college.*

Eight sessions: Thursdays, 11:00 a.m. – 12:10 p.m., June 9, 16, 23, 30; July 7, 14, 21, 28

### 355 Shakespeare Out Loud (online - ZOOM)

“They do not love that do not show their love.”  
Julia, Act 1, Scene 2, *Two Gentlemen of Verona*

“O time most accurst!  
‘Mongst all foes that a friend should be the worst.”  
Valentine, Act 5, Scene 4, *Two Gentlemen of Verona*

It's summer and time to read a Shakespeare comedy! We will read aloud *Two Gentlemen of Verona*, which may have been Shakespeare's first play.

The play deals with themes of friendship and infidelity, the conflict between friendship and love, and the foolish behavior of people in love. It has the smallest cast of any play by Shakespeare, even counting the non-speaking role of the scene-stealing dog, Crab.



The group reads orally in round-robin manner, stopping for informal discussion as the group desires. Mispronunciations welcome! You must have your own unabridged copy of the play to read. Various editions pose no problems. Come join the fun! The ZOOM format works well for this class so don't let that stop you from enrolling

*Nancy Burwell is retired from Pellissippi State Community College, where she taught mathematics. Prior to that she was a technical editor at the Institute for Energy Analysis at Oak Ridge Associated Universities. She enjoys organizing the class and studying Shakespeare along with the other readers.*

Six sessions: Tuesdays, 1:00 p.m. - 2:10 p.m., June 21, 28; July 5, 12, 19, 26

### 356 Poets from Around Here (in-person)

This class will feature the poetry of people who live in East Tennessee, our neighbors and friends. This area has many fine poets. The classes will focus on poems that can be read quickly for discussion. There are diverse voices that reflect our community and talent. The poetry of our region will be fun to read. I hope to invite some of the poets to read their works to the class.



*Sylvia Woods grew up in Eastern Kentucky and moved to Tennessee in 1971 where she taught high school English for forty-three years, the last twenty-seven at Oak Ridge High School. She is a published poet and her work has appeared in anthologies and literary journals.*

Four sessions: Thursdays, 11:00 a.m. - 12:10 p.m., June 16, 23, 30; July 7

### 357 A World of Stories (online - ZOOM)



Folklore is full of stories that were told or read to us when we were children. But we often hear as we mature that such tales are childish, unworthy of notice by genuine adults. Since becoming a storyteller in my retirement years, I've tried to reconnect adults with the delights found in stories: sly tricksters and thigh-slapping buffoons, archetypes disguised in the garb of traditional culture, some surprisingly subtle studies in applied morality, and, of course, evil wizards and benevolent fairy godmothers. In this class we will listen to folk- and fairy-tales from many parts of the world, recreating vivid experiences of oral storytelling. Then we will share the images

invoked, ideas incited, and theories engendered in the process. Grown-ups can find a lot to say about such "childish stuff" when they turn their minds to it.

*Kathleen Mavournin's fascination with folktale, and fairytale goes back to her childhood. She grew up in Minnesota and moved to East Tennessee more than 50 years ago. Here she earned a PhD in molecular genetics from UT and worked at the ORNL as a genetic toxicologist for 22 years. Upon retirement, she plunged back into her earlier playground of myth and story, and has been happily entertained and entertaining there ever since.*

Four sessions: Tuesdays, 1:00 p.m. - 2:10 p.m., June 14, 28; July 12, 26

**ORICL reserves the right to take photographs in ORICL classes and on trips. Photographs may be used in ORICL newsletters, brochures, course catalogs, and/or other publicity designed to help the organization meet its mission.**

### 358 The Life, Loves, and Poetry of Emily Dickinson (in-person)

This three session course on the American poet, Emily Dickinson, will seek to examine her poetry through the lens of biography and history, as well as her lasting influence on culture, poetry and generations of writers.

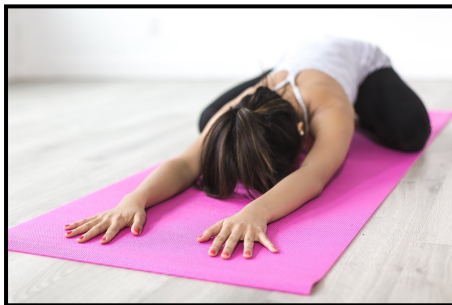
*William Gwin is the Information Literacy Specialist and an outreach librarian at Oak Ridge Public Library. He has served as an Adjunct Faculty in Pellissippi State's English Department since 1998 where has taught English Composition and Literature. He has also been an instructor of English Composition and Research in Tusculum College's Gateway Program. Recently, Mr. Gwin served on the Oak Ridge Poet Laureate Committee which nominated Oak Ridge's first Poet Laureate. Mr. Gwin completed his BA in English Literature and MA in English/Creative Writing, with a concentration in poetry, at UTK.*



Three sessions: Tuesdays, 9:30 a.m. - 10:40 a.m., July 5, 12, 19

## Medicine & Health

### 400 Body, Mind, Breath: Contemplative Practices for Relieving Stress and Tension for the Body and Mind (online - ZOOM)



In these three sessions you will learn about and experience three types of practices to calm the mind and release tension in your body. You will learn how to comfortably position yourself for a long guided relaxation for the body, an easy seated or lying down beginner's meditation for daily practice, and breathing (Pranayama) practices from yoga which have an ancient history for supporting the body in healing and calming in the mind. Each class session includes information about the benefits of ongoing practice for each of the practices, the metaphysics of breath and

body practices, and an experiential component. You will be given detailed instruction on how to position yourself comfortably for each practice and support you in how to set yourself up for a daily practice for your body, mind, and breath.

*Serene White is licensed massage therapist and certified yoga instructor. She has a home based studio in Oak Ridge and offers weekly small group yoga classes, private sessions, and massage therapy for relaxation and healing. Her focus is on restorative yoga practices to support people in unwinding tight areas of the body for pain relief and deep relaxation for stress relief. Her teaching is compassionate, gentle, and heart centered. Serene brings her love and knowledge of yoga to each and every class she teaches, and strives to help each student experience a practice that is deep, meaningful, and effective.*

Three sessions: Mondays, 9:30 a.m. - 10:40 a.m., July 11, 18, 25



## 401 Topics on Aging (in-person)

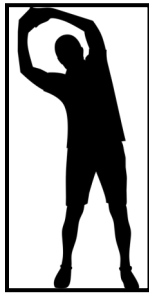
Dr. Kevin James gave a presentation during fall 2022 regarding multidisciplinary gerontology topics. Some of the topics he covered during his first presentation included : evaluations and setting goals; mobility and maintaining functions. If you have questions regarding aging topics Dr. James will be ready to answer them.



*Kevin James grew up in Oak Ridge, TN and went on to medical school at Vanderbilt University. He completed a residency in internal medicine followed by a fellowship in geriatrics in Boston. He currently practices in Maryville as a hospitalist and primary care physician.*

One session: Wednesday, 2:30 p.m. - 3:40 p.m., July 13

## 402 Exercises and Stretches for Spinal Health (in-person)



This class will be a participation stretching class for the spine and some extremities. We will explain the why behind the stretches and also provide possible alternatives for people who can't do the normal stretches.

*Dr. Colin Hickey grew up in Neenah, WI where he graduated from Neenah High School. Dr. Colin received a BS from the University of Wisconsin-Whitewater. He graduated from the Fountainhead of Chiropractic at Palmer College of Chiropractic in Davenport, Iowa. Dr. Colin has a dog, Vader, that is a Shepherd/Husky/Lab mix. He is a sports lover and food enthusiast!*

One session: Monday, 9:30 a.m. - 10:40 a.m., June 27

## 403 What Can EMS Do For Me? (in-person)

Do you know, and understand, what EMS can do for you? This class will explore Emergency Medical Services (EMS), with a heavy emphasis on Anderson County EMS operations and capabilities. EMS encounters some of the most basic, and most complex medical emergencies, utilizing critical thinking, problem solving, medical practices, training, equipment, and advancing treatment protocols to mitigate the situation. The options for EMS providers are more advanced than they ever have been, and continue to grow. As the healthcare world advances, so too does EMS. We will take time to also navigate the outlook of things to come! Inquisitive minds and questions are encouraged. EMS medical equipment will also be on hand for class participants to see.



*Nathan Sweet began serving with Anderson County EMS in 2002 and became Director in 2009. He began his public safety career in 1997 with the United States Air Force as a firefighter and EMT, becoming a paramedic in 2003. Proudly carrying the title of "EMS Geek" as he loves all things in and of EMS, with a passion to make things better for the patient, the caregiver, and the community they serve.*

One session: Monday, 1:00 p.m. - 2:10 p.m., July 11

## Music

### 450 The Operas of Mozart (in-person)

Mozart pushed the genre of opera to the point of comprehensive reinvention in his brief life, continually excelling in its composition and continually delighting audiences. Perhaps no composer has ever loved opera with more passion. We will examine the operatic masterpieces of one of the greatest composers in history. In this course acclaimed musicologist Professor Robert Greenberg examines Mozart's life, influences, and major operas.



*Dan Robbins will show these Great Courses videos in two separate classes this term.*

Six sessions: Wednesdays: 11:00 a.m. – 12:10 p.m.

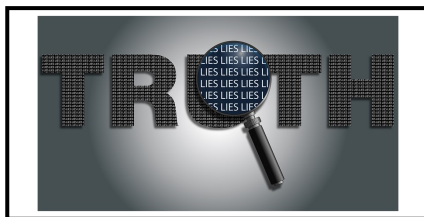
Six sessions: Wednesdays: 1:00 p.m. – 2:10 p.m.

***This class will be in-person. This class is in two parts; please note that if you sign up for one part, you sign up for both parts. The second class at 1:00 p.m. is NOT a repeat of the 11:00 a.m. class.***

Twelve sessions: Wednesdays, June 22, 29; July 6, 13, 20, 27

## Philosophy

### 470 Your Truth or Mine (in-person)



Is truth an absolute or is it relative? Can truth change over time? Will knowing the truth actually set you free? How many times in the past year have you been lied to? How many times have you lied? Is it ok to protect people from the truth? What are some of history's great lies that even today you believe are true?

Using historical examples as discussion points, we will explore the use of lies to manipulate events and people throughout history. We'll discuss the why and what might have happened if the "truth" had been revealed. We'll start with David and Goliath and make our way through history discussing truth from its theoretical concept to its practical usage and how the two diverge.

*Tony Jordan is a retired CIA spymaster and counterspy. He is author of three novels and three collections of published short stories as well as a number of single short stories. He is a proponent of practical philosophy over theoretical philosophy. He is a student of human nature and the manipulation thereof. He has spoken at numerous colleges and international events including thrice at the Churchill's Institute's Symposium on Freedom. He has also addressed classes of senior members of the FBI, NSA, NCIS, DIA and DoD. Before he was recruited into the CIA Tony was a rescue pilot, test pilot and squadron commander in the U.S. Air Force.*

Three sessions: Thursdays, 9:30 a.m. - 10:40 a.m., June 23, 30; July 7

## Religion & Spirituality

### 500 Theology on TV: “Joan of Arcadia” (in-person)

CLASS CANCELLED AT REQUEST OF INSTRUCTOR

### 501 In the Buddha’s Words–Continued (online - ZOOM)



The title for this class is taken verbatim from an anthology of *suttas*/ Discourses (“scriptures”) of **Siddhattha Gotama, the Buddha** translated by Venerable Bhikku Bhodi, the foremost translator from Pali to English in the Western world.

**See:** <https://wisdomexperience.org/product/buddhas-words/>

This will be our textbook. His selections are arranged in ten “chapters,” each of which has a very knowledgeable introduction plus charts of the sources and index, glossary and bibliography. This is an ideal way to look into the teachings of the Buddha that are preserved in five major *Nikayas* (“collections”). We will regard and conduct this as a reflection and discussion class based on the *suttas* themselves and the commentaries in the text. This class will begin with a short, guided meditation and end with a Lovingkindness practice for all beings.

*Fred Martinson is an art historian (PhD University of Chicago) trained in Asian art who taught at the University of Tennessee, Knoxville for 30 years. He has a special interest in the iconology of Buddhist art (“meaning”) and eventually began a meditation practice with several different groups and on his own. Since that time he has studied with a number of different teachers, some on retreats at Dharma centers and now some online. He has participated in national and Knoxville meditation and study groups including two on suttas (the Buddha’s discourses).*

Seven sessions: Mondays, 11:00 a.m. – 12:10 p.m., June 6, 13, 20, 27; July 11, 18, 25

**Online registration will open Tuesday, April 19. If you plan to submit a paper registration please turn your form in to the office as soon as possible.  
Couples should submit separate forms.**



## Science & Technology

### 550 Technical Book Group (in-person)

Would you like to learn more about rapidly-changing science and technology? Class members read and discuss books on science and technology topics of interest, biographies of experts in a given field, or historical accounts of key discoveries. Join this monthly group and share your perspective and discuss that month's book. Recently published works written for a lay reader are recommended and selected by the members.



June 27: [The Star Builders: Nuclear Fusion and the Race to Power the Planet](#) by Arthur Turrell

*Jim Rushton is the class facilitator.*

Three sessions: Mondays, 4:00 p.m. – 5:10 p.m., June 27; July 25; August 22

### 551 High Altitude Electromagnetic Pulse (HEMP) Impact on the US Electric Grid (in-person)



The detonation of a nuclear weapon high in the Earth's atmosphere can produce a near instantaneous burst of electromagnetic energy at the Earth's surface. This energy is known as HEMP. HEMP energy can disrupt or damage electronic equipment, computers, and electrical equipment. The Electric Power Research Institute (EPRI) initiated a project in 2016 with the goals of understanding the impact of HEMP on electric utility substation equipment, developing modeling techniques to predict HEMP field levels that could happen in substations, and identifying options for mitigating the adverse impacts of HEMP. This presentation will describe the test

facilities used by EPRI to determine the impact on substation equipment as well as the unique modelling capabilities that have been developed to predict the exposure of that equipment. Finally the presentation will discuss some mitigation techniques that have been developed that are being piloted in electric utility substations.

*Charles Perry is a Technical Executive at Electric Power Research Institute (EPRI). His primary areas of research are high altitude electromagnetic pulse (HEMP) and geomagnetic disturbances (GMD) and their impact on electric power system equipment. He has worked at EPRI for 22 years where he has held various engineering and management positions. Prior to EPRI, Charles worked for American Electric Power for 14 years where he held various engineering positions. He has a BSEE from West Virginia University and a MSE from West Virginia Graduate College. He is a registered professional engineer in WV and is a Senior Member of the Institute of Electrical and Electronics Engineers.*

One session: Thursday, 4:00 p.m. - 5:10 p.m., June 23

## 552 Lasers in Science and Technology (in-person)

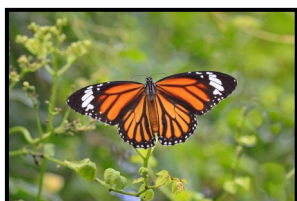
The first device to produce “visible” light amplification by stimulated emission of radiation (laser) was constructed in 1960 by Ted Maiman at the Hughes Research Laboratories. The laser has made enormous contributions to science and technology over the past 60 years. Lasers are employed in society from barcode scanners to skin cancer treatment. The different types of lasers include gas, chemical, solid-state, excimer, semi-conductor, and dye lasers. The Free Electron Laser (FEL) uses a relativistic electron beam as the lasing medium and can be widely tuned from the microwave to the soft X-ray region. Bob Compton has employed all of these lasers including the FEL in his research. This course will begin with a brief discussion on the properties of light followed by a brief description of all of the lasers in operation today. Finally, we will explore two of the most interesting applications of the laser: the detection of gravitational waves with the Laser Interferometer Gravitational Wave-Observatory (LIGO) and Livermore’s National Ignition Facility program to produce nuclear fusion.



*Bob Compton moved with his family to Oak Ridge in 1943, his father worked at Y-12 on the Manhattan Project. Bob attended and earned his BA in Physics from Berea College, he continued his education and earned his MS from the University of Florida and his PhD from the University of Tennessee. During summers Bob worked at Y-12 and K-25. He went on to spend 30 years as a Corporate Fellow at ORNL and was also a professor of Physics and Zeigler Professor of Chemistry at UTK until retirement in 2015. Bob’s research interests include: negative ions, laser spectroscopy, and molecular chirality. He has published two books: Laser Experiments in Chemistry and Physics (Oxford) and Raman Spectroscopy under Liquid Nitrogen (Springer).*

Three sessions: Thursdays, 1:00 p.m. - 2:10 p.m., June 16, 23, 30

## 553 The Mystery and Magic of Monarchs (in-person)



Monarchs are an iconic American butterfly known the world over as the only butterfly in the world that makes a true migration every fall. And this migration occurs only in North America where the butterfly can travel over 2,000 miles to its winter destination. But as the media has been reporting, this natural event is considered endangered. This class will share detailed information about the monarch butterfly, its life cycle, migration, and the challenges that exist for this incredible creature. Find out when and where monarchs are expected to be seen in the Smoky Mountain region plus learn of several ways you can help with monarch conservation through citizen science projects, butterfly gardening and butterfly counts here in the Smokies or from your own home.

*Wanda DeWaard is an outdoor educator who has shared Environmental Awareness and Earth Kinship with community groups, schools, camps, environmental centers, and teacher conferences all over the United States plus Canada, Germany, and the Far East of Russia since 1974. Wanda works as an outdoor program consultant and educator in the Great Smoky Mountains area with a focus on Outdoor Education, Earth Skills and Citizen Science. She often volunteers her time teaching about monarch butterflies, butterfly gardening, outdoor safety, and citizen science projects. Anything and everything in the natural world bring out her enthusiasm and contagious sense of fun.*

One session: Monday, 11:00 a.m. - 12:10 p.m., June 13

## 554 Explore Solutions to Climate Change (in-person)

Would you like to explore solutions to climate change? This course will show you how to use a scientifically rigorous tool – En-ROADS, developed by the MIT Sloan Sustainability Initiative. This course will help you see connections between solutions, play out scenarios, and see what works to address the biggest climate challenges we face.



En-ROADS is a global climate simulator that allows users to explore the impact of roughly 30 policies – such as electrifying transport, pricing carbon, and improving agricultural practices – on hundreds of factors like energy prices, temperature, air quality, and sea level rise. The tool is designed for a broad audience, no prior simulation experience is required. You will make connections between things you care about and the possibilities available to help ensure a resilient future. You'll be able to see the long-term effects of the global climate policies and actions that you imagine. The goal? To break through the noise and better understand climate change.

- June 6: Introduction to Climate Change and Options for Acting
- June 20: Meet in computer lab: Simulate Climate Futures in En-ROADS (computer lab)
- June 27: Meet in computer lab: Break into groups to role play options for action on climate change (fossil fuel industry, government, environmental groups)
- July 11: Meet in computer lab: Debate options for action on climate with other groups
- July 18: Multi-solving: what ancillary benefits/impacts occur given certain solutions?
- July 25: Next steps on climate change

*Jan Berry retired from Oak Ridge National Laboratories after a 35-year career as an engineering manager. She holds her bachelor's and master's degrees in Chemical Engineering. Jan was inspired to become a chemical engineer by environmental disasters of the 1970s. She joined ORNL as environmental cleanup of the Department of Energy sites began and spent the first half of her career managing ORNL and national projects. Then, she turned her focus to advanced energy systems managing national projects on improving industrial energy efficiency. The last 11 years of her career were spent as Group Leader for ITER, an international fusion energy device. In retirement, Jan volunteers as an Ambassador for En-ROADS, State Coordinator for Citizens' Climate Lobby, member of American Nuclear Society Policy Committee and President of the Lenoir City Rotary Club.*

Six sessions: Mondays, 4:00 p.m. - 5:10 p.m., June 6, 20, 27; July 11, 18, 25

**You may register for classes after the term has begun if classes are not full. We discourage participants showing up to classes without being registered for several reasons: the class may be full, there may not be enough handouts; or you would not be notified if the class cancels or the start date or location of the class changes.**

## 555 The Buzz about the Bees (in-person)

The class will briefly overview the importance of honey bees in providing fruits and vegetables for the food economy; the makeup of the honey bee colony and how the hive changes through the season; current threats to the honey bee; the process of harvesting honey and threats to quality honey products; and current research technology efforts at the University of Tennessee to improve the condition of the honey bee while improving honey, fruits, and vegetable products for the food economy.



*Dr. Larry Millet of The Center for Environmental Biotechnology at UTK will introduce participants to the current status of the honey bee population in our area. Dr. Millet received his PhD in cell and developmental biology from the University of Illinois Urbana-Champaign before coming to do a post doctorate at ORNL. He joined UTK in 2016. His research uses biological, behavioral, and environmental observations to guide technological innovations to understand how insects influence over-wintering of honey bees in hive structures.*

One session: Tuesday, 4:00 p.m. - 5:10 p.m., June 21

## 556 Exploring Science Literacy (online - ZOOM)

Each class has some background and basic facts about science and the tools of science, some science history, and a multidisciplinary view of the science phenomenon.

The first session will be about volcanoes: basic science concepts, Mounts Vesuvius and Krakatoa, modern volcanology and Yellowstone.

The second session will be about climate change: science concepts and disciplines involved, history and deep history of climate change and the modern situation with climate change.

The third session will be about human evolution: science concepts and disciplines involved, how we know what we know and how modern humans became who they are today.

*Lalia Wilson spent years teaching college Chemistry and is a proponent of science education.*

Three sessions: Thursdays, 1:00 p.m. - 2:10 p.m., June 9, 16, 23





## Social Science & Economics

### 600 Introduction and How to Use the Libby App to Read or Listen to e-Books (in-person)

This class will cover how to access electronic books from the local libraries so you can either listen to or read books, magazines, and even some videos using your public library card(s). We will briefly discuss the regional library system which has access to a large database called READS, as well as the collections through the Oak Ridge Public Library and the Knoxville Public Libraries. Meg Harrison, the director of the Clinton Public Library will be with us to issue Clinton Public Library cards to anyone who attends so they can access the READS collection. Cards are FREE from Clinton Public Library as are the electronic materials. You will need a photo ID to obtain the Clinton Public Library card. If the address on your ID is not currently correct, bring a piece of mail with your name and current address. The first session will be learning about this wonderful resource and getting cards. The second session will be a hands-on session to get you and your device connected to these resources. Bring your smartphone, tablet, or laptop.



*Debra Mattingly has been a librarian for 42 years. She and her husband moved to Oak Ridge 7 years ago to retire here. She is currently the Assistant Director at the Clinch River Regional Library in Clinton. She has worked in academic, business and public libraries in her career in Illinois, North Carolina, Colorado, Tennessee, Florida and Maryland.*

Two sessions: Monday and Wednesday, 2:30 p.m. - 3:40 p.m., July 25, 27

### 601 Your Online Library: e-Books, Audiobooks, and More (in-person)



Did you know that you have millions of e-books, audio-books, TV series, blockbuster movies, magazines, and comic books right at your fingertips? Join Oak Ridge Public Library director, Julie Forkner, for a tour through Hoopla, a new app for online library materials. We will also tour Libby by Overdrive, another excellent app for e-books and audio-books. Bring your smartphone, tablet, or laptop to follow along or just come and be awed at the variety of content available to you. You will also need your library card number and PIN. If you need assistance with your library account, please call the library at 865-425-3455 or go to: <https://orpl.ent.sirsi.net> and click on "My Account."

*Julie Forkner graduated from the University of Tennessee School of Information Science in 2012. She is the director of Oak Ridge Public Library and gets immense joy from sharing her love of books to anyone willing to listen. In her spare time, she is often lost in an audiobook and working in her garden.*

One session: Monday, 2:30 p.m. - 3:40 p.m., July 11

## General Interest

### 650 Meet the Sweets (in-person)

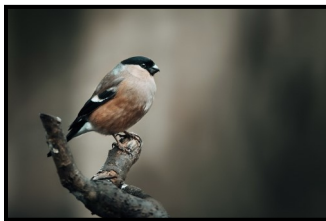
Family history researches will sometimes yield surprising findings. One such group is the Sweet family from Devonshire, England who landed in Colonial America in 1635 and made a mark in American history, including the founding of Providence, Rhode Island, participation in the American Revolution, and the notable Sweet bonesetters of New England. The Sweet family passed their knowledge of “bonesetting” and herbal remedies from generation to generation.



*Chuck Palmer is a retiree from the nuclear industry. Prior to retiring, he began to research into the history of his family and the family of his wife, Deborah. This has led to an extended family with some interesting stories. Chuck is eager to share the lessons learned during his research.*

One session: Tuesday, 11:00 a.m. - 12:10 p.m., July 19

### 651 Birding by Eye and Ear (in-person)



Join Dan Robbins for his annual birding walk on Melton Lake Phase IV Greenway. This 2.2 mile (4.4 mile round trip) walk is mostly level and will begin across from the entrance to Centennial Village. The hike, which will go through five different habitats, will start at the Edgemoor Bridge parking area (near the South end of Melton Lake Drive) and extend to Solway Park. Those wishing to walk only one way can carpool to leave one car at Solway Park. Dan, an avid birder, will point out birds – by sight and sound – habitat information along the way. Participants should wear comfortable walking shoes and bring binoculars (though Dan will bring several extra pairs).

*Dan Robbins retired from B&W Y-12 in 2013 after 47 years of company service. At Y-12 he was the director of the analytical laboratories. He is a chemistry graduate of UNC Chapel Hill and a Princeton PhD. He is the founding and current chairman of the Greenways of Oak Ridge Organization, which has supported the development of the greenways of Oak Ridge since 1993.*

One session: Monday, 8:30 a.m. – 11:30 a.m., June 13

**Please note: Every person registering for Summer 2022 who is new to ORICL must pay the \$60 membership fee. We cannot process your registration without the accompanying fee; however, please do not pay for class fees or trip fees until you receive your schedule signifying that you are enrolled.**

## 652 Cryptic Varietal Crossword Puzzles (online - ZOOM)



Mental exercise (such as working crosswords) is thought to benefit older brains by keeping them agile. In cryptic crosswords each clue is a puzzle in itself. Cryptic crosswords have an added layer of logic, so cryptic varietal crosswords are like crosswords on steroids! They combine cryptic clues with variation on the construction; the intent of the puzzle authors is to entertain with novelty. We began this class with a core group of addicted, self-selected masochists, but we welcome new class members and will teach them the skills that the veterans have learned.

We begin with an introduction together as a class. We use U.S. varietal crossword puzzles to learn how to solve cryptic clues and to deduce the wordplay of varietals. They will seem impossible at first! Vocabulary skills are regular crossword assets but not nearly as important as mental flexibility and clue-type recognition. Come join the fun!

*Elane Streets began learning to solve cryptic crosswords as a newlywed in England in the early 1970s and although the shock was severe in the beginning she has learned to treasure them much more than even the toughest US regular puzzles. Cryptic varietals are fun to work on by oneself or as a team member.*

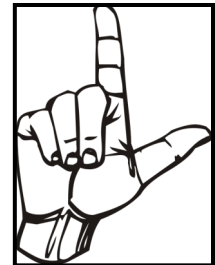
Eight sessions: Tuesdays, 2:30 p.m. – 3:40 p.m., June 7, 14, 21, 28; July 5, 12, 19, 26

## 653 Sign Language for Beginners (in-person) Class fee: \$6

In this class students will use American Sign Language and be introduced to over 200 signs used by the deaf in the USA.

We will cover basic greeting, numbers, colors, family terms, foods, drinks, animal terms and signs for feelings and emotions. Students will also learn to fingerspell and gain proficiency in speed and fluency.

Class materials will include weekly handouts. The instructor will have a limited number of relevant books for sale for students desiring additional instruction.



*Bob Grimac was born in Oak Ridge, raised in Knoxville, and lived for five years in the Western Pacific islands of Micronesia as an English teacher and editor of a weekly newspaper. While studying at UT he lived and worked on campus of the Tennessee School for the Deaf for a year and later worked with the deaf for three years in public schools. Bob studied sign language at UT in a summer intensive course and later taught sign language for the UT non-credit department and at private schools.*

Eight sessions: Wednesdays, 4:00 p.m. – 5:10 p.m., June 8, 15, 22, 29; July 6, 13, 20, 27

### **\*\*FRIDAY ALERT\*\***

**The Roane State Community College campus, ORICL office and classrooms will be closed on Fridays during the summer! Classes at the Art Center will continue to meet on Fridays.**

## 654 How to Make Mobbie: An Indigenous Caribbean Brew (in-person)

Long before rum was a major product of the Caribbean region, the indigenous Carib islanders were making a fermented beverage from sweet potatoes and the bitter bark of the mauby tree. Known by many names throughout the Caribbean, in Barbados, this drink became known as “mobbie”.



This class will be divided into 2 sessions.

During session 1, we will cover a brief history of mobbie, the basics of fermentation and home-brewing and the ingredients and equipment needed to make your own version of mobbie at home. No brewing experience is required. We will sample the modern, non-alcoholic soft-drink “mauby” now found in specialty grocery stores.

During session 2, we will demonstrate the process of the enzymatic conversion of starch to fermentable sugar. We will also demonstrate some of the techniques and equipment needed to monitor the progress of fermentation. Due to restrictions against alcoholic beverages on the ORICL/RSCC campus, no samples of the fermented mobbie will be available but, for any students interested, we will re-convene after class, off-campus, where you can pick up a couple sample bottles of home-brewed mobbie to take home.

*John Cosgrove has been home-brewing beer, wine and mead (honey wine) for over 40 years. He was co-owner/operator of Anderson County's first commercial winery, Shady Grove Meadery, from 2002-2010. John has a bachelor's degree in chemical engineering and retired from ORNL in 2014.*

Two sessions: Mondays, 6:00 p.m. - 7:10 p.m., June 13, 20

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## 655 The History and Highlights of the Obed and Big South Fork (in-person)

This class will focus on the Obed Wild & Scenic River and the Big South Fork National River & Recreation Area, both units of the National Park Service.

The Obed Wild and Scenic River was established to preserve one of the last free-flowing, wild river systems in the eastern United States. The park unit is characterized by rugged and primitive terrain, rare and threatened ecosystems, exceptional waters, and opportunities for challenging recreational activities.



Located in north central Tennessee and southeastern Kentucky, Big South Fork National River and Recreation Area encompasses just less than 125,000 acres of rugged terrain within the Cumberland Plateau. The area includes 90 miles of scenic gorges and sandstone bluffs, is rich with natural and historic features and was established to provide visitors with a wide range of outdoor recreational activities.

*Niki Nicholas is the Superintendent of both the Big South Fork National River and Recreation Area and the Obed Wild and Scenic River and is the Site Manager of the Manhattan Project National Historical Park. Prior to taking her current National Park Service assignment she served as Chief of Resources Management and Science at Yosemite National Park for seven years. Before that Nicholas was Senior Manager for Environmental Impact Reduction Technologies with TVA. She has a BA in biology from Northwestern University, a MS in ecology from the University of Tennessee, and a PhD in forestry from Virginia Polytechnic Institute and State University. Over the years Dr. Nicholas has worked on a number of forest health research projects looking at methods of evaluating multiple stressors of forest communities and evaluating predictive response models. More recently she has been researching user-capacity issues related to natural and cultural resource management on public lands. Dr. Nicholas has served on the adjunct faculty of Utah State University's Department of Forest Resources, Auburn University's School of Forestry and Wildlife Sciences, East Tennessee State University's School of Public Health, and the University of Tennessee's Department of Ecology and Evolutionary Biology.*

One session: Thursday, 1:00 p.m. - 2:10 p.m., June 9

## 656 Celebrating the Seasons with Tarot - Summer Holidays (online - ZOOM)

We will look at four summer "holidays": Juneteenth, Fourth of July, Leo (Cats & Stars), and Woodstock. For each day we will look at tarot decks themed to that holiday, specific tarot cards that resonate with that holiday, a tarot spread related to the holiday and more.



*Laila R. Wilson has studied tarot, and used tarot since 1969 when she got her first tarot deck. Wilson is a tarot deck and book reviewer for the American Tarot Association, Tarot Sushi, and you will also see her reviews on Goodreads and Amazon. Wilson has over fifty tarot decks herself.*

Four sessions: Thursdays, 2:30 p.m. - 3:40 p.m., June 16, 30; July 21, 28

## 657 Hillside Garden with a View (in-person)

The terraced landscaped begins in the front yard of the house Hella and Pete Peterson have lived in for more than 40 years. Terraced gardens continue down the sloping backyard with its view of the Cumberland Mountains.

The Peterson's planning and planting created a garden for four seasons. "If you plant conifers only, it's boring," she says. So her garden includes perennials and deciduous trees, including red-stemmed dogwoods that offer year-round interest.

A coral bark maple's limbs shine their distinctive shade when the winter sun touches them. Tall oak leaf hydrangeas and a weeping Katsura tree help give the landscape structure in the winter. The overall garden can be seen as a series of smaller plots that connect and grow together. In the smaller garden, Hella selects a plant as a focus and then plants around it.



Pete and Hella have been working on the garden for nearly 45 years with most of the work following retirement about 20 years ago. It evolved from much grass including paths to very little grass to become more environmentally friendly. Hella went through the Master Gardener program at UT about 8 years ago and she and Pete support various civic organizations including Friends of the Gardens at UT; and UT Arboretum Society in Oak Ridge where Hella serves on the Board and helps with the plant sales and their monthly hikes. They also belong to the American Conifer Society and enjoy some of their national meetings, which include beautiful private garden tours.

The Petersons have graciously opened their garden for ORICL members to tour, a perfect spot for a warm June day. Participants will learn much from Hella's enthusiasm and professionalism. There are two identical garden tours on a single day; one begins at 10:00 a.m.; the second at 2:00 p.m. There are some benches available for those whose energy wanes, but you may want to bring your own tripod collapsible stool. Please register for only one tour time.

**Session A: Tuesday, 10:00 a.m., June 14**

**Session B: Tuesday, 2:00 p.m., June 14**

**Register for one session only.**

### ORICL Class Disclaimer -- Summer 2022

**The course content provided in these classes is for information purposes only, and may not apply to your individual situation. ORICL and the staff provide no warranty about the content or accuracy of subject matter presented. Information provided is subjective. Keep this in mind when attending these classes. Any individual actions taken as a result of courses should be reviewed with competent authority. Please contact the ORICL office if you have any questions.**

## Trips & Activities

### 700 Sequoyah Birthplace Museum and Sweetwater Valley Farm

Complementing our many courses on Native American history over the past several terms, ORICL members are invited to join instructor Wes Hibbert to travel to Cherokee “overhill” territory and the verdant farmland of Sweetwater Creek in Loudon County.



Our first stop will be the Sequoyah Birthplace Museum in Vonore, a property of the Eastern Band of Cherokee Indians. The mission of the Sequoyah Birthplace Museum is to promote the understanding and appreciation of the history of the Cherokee people in eastern Tennessee, particularly the life and contributions of Sequoyah (1776-1843). The Museum, located on the shores of Tellico Lake, was built in 1986. It was recently renovated and a new exhibit was installed in 2018. Director Charlie Rhodarmer will guide our group along with Wes.



A short distance away lies Sweetwater Valley Farm, originally part of the revolutionary land granted to General William Ballard Lenoir, settled in the early 1800s. John and Celia Harrison purchased interest in the dairy farm in 1987, and became the sole owners of Sweetwater Valley Farm in 1992. John started producing cheese in 1998 using milk from his cows. In 2012 the farm was recognized as Innovative Farm of the Year. In 2018, Sweetwater Valley Farm became Tennessee’s first Lely XL Dairy Farm, milking 500 cows with robotic technology.

Lunch will be purchased at the cafe in “the barn” or you may bring your own sack lunch. The café proudly serves sandwiches featuring their own cheeses. A variety of beverages will also be available. **Lunches will be pre-ordered and paid for prior to the trip. You may choose to take your own lunch.**

A tour of the farm will be given, you will see the cows and the milking technology and you will be given the opportunity to visit the gift shop to purchase cheese to take home!

**Tuesday, June 21, 8:00 a.m. – 3:00 p.m.**

**Bus leaves at 8:00 a.m. SHARP from the flagpole at the RSCC parking lot.**

**Trip leaders are Becky Rushton and Wes Hibbert**

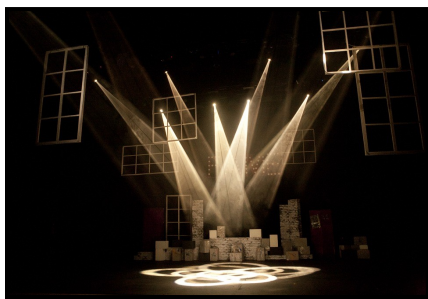
***Trip charge of \$90.00 includes transportation, tour fees and gratuities. Lunch orders will be taken prior to the trip, lunch orders will be paid prior to the trip to the ORICL office. The trip fee can be paid for online by credit card or directly to the office by check or cash. The meal fee MUST be paid to the office by cash or check.***

**No refunds.**

ORICL cell phone number is (865) 558-7413.

## 701 Cumberland County Playhouse Backstage and Performance of “Leading Ladies”

The Cumberland County Playhouse in Crossville, TN has had a reputation for quality regional theater since 1963. It combines a resident professional company and a fulltime staff with more than 100 visiting professionals, guest artists, and a large volunteer corps to bring quality theater to our area. ORICL has enjoyed several plays at the theater in previous terms. A special invitation by Bryce McDonald, CEO and Producing Director to tour backstage and discuss production of the theater’s season of performances will precede lunch on your own from the menu at Fortes on the Square in downtown Crossville. Then we will adjourn to the Adventure Theater to enjoy “Leading Ladies.”



In this hilarious play, two English Shakespearean actors, Jack and Leo, find themselves so down on their luck that they are performing “Scenes from Shakespeare” on the Moose Lodge circuit in the Amish country of Pennsylvania. When they hear that an elderly lady in York, PA is about to die and leave her fortune to her two long lost English nephews, they resolve to pass themselves off as her beloved relatives and get the cash. The trouble is, when they get to York, they find out that the relatives aren’t nephews, but nieces! Romantic entanglements abound until the climax. Written by Tony Award Winning playwright Ken Ludwig, widely known for “Lend Me a Tenor,” and “Moon over Buffalo,” this farce is guaranteed to brighten the summer doldrums.

Our bus will leave RSCC’s flagpole promptly at 9:30 a.m., returning at approximately 6:30 p.m. Participants may want to bring along a snack since due to the difference in time zones, lunch will be scheduled for 12:30 p.m. ET and the performance will begin at 3:30 p.m. ET

**Thursday, August 25, 2022, 9:30 a.m. to 6:30 p.m.**

**Bus leaves at 9:30 a.m. SHARP from the flagpole at the RSCC parking lot.**

**Trip leaders are Becky Rushton and Jackie Rylander.**

***Trip charge is \$100.00. Includes transportation, backstage tour and play ticket. Lunch is not included.***

**Last day to cancel with a refund is July 15, 2022.**

ORICL cell phone number is (865) 558-7413.





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### THANKS!

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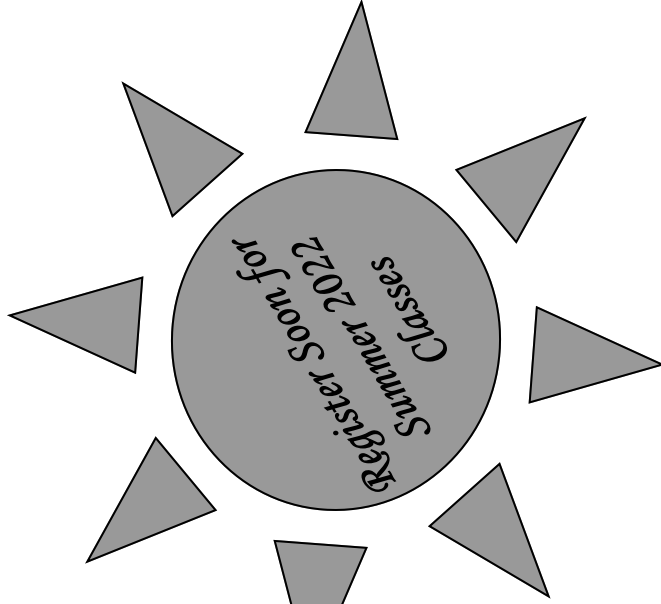


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Office Hours:  
Monday – Thursday  
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message at other times.

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