GERO 440 / BISC 440: Biodemography of Aging  
Units: 4.0 Spring 2024

**Time:** Mondays, 2:00pm – 4:50pm  
**Location:** GER 124

**Instructor:** Tara L. Mastro, PhD

**Communication:** Email: mastro@usc.edu

Email is the best way to contact me. I will respond within 24 hours. Message again if you haven’t heard back. (Messages can get lost.)

**Office Hours:** Before and after class for short help sessions or by appoint. Email 3 suggested times and we use one of those.  
**Physical Office:** GERO 231A  
**Virtual Office:** Meeting ID 584 300 7840, Passcode 208617

This syllabus, schedule, and stated policies may change during the semester but if/when it does, I will point it out clearly during class and/or through announcements.

**Important Dates!**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, January 8(^{th}), 2023</td>
<td>First Day of Class</td>
</tr>
<tr>
<td>Monday, January 15(^{th}), 2023</td>
<td>Martin Luther King’s Birthday</td>
</tr>
<tr>
<td>Friday, January 26(^{th}), 2023</td>
<td>Last Day to Add Class, Refunds, Pass/No Pass Grading</td>
</tr>
<tr>
<td>Friday, February 23(^{rd}), 2023</td>
<td>Last Day to Drop without a “W”, Change grading basis to letter grade</td>
</tr>
<tr>
<td>March 10(^{th})-17(^{th}), 2023</td>
<td>Spring Recess – No Class</td>
</tr>
<tr>
<td>Monday, April 1(^{st}), 2023</td>
<td>Last day to withdraw with a W</td>
</tr>
<tr>
<td>Friday, April 26(^{th}), 2023</td>
<td>Last Day of Classes</td>
</tr>
<tr>
<td>April 27(^{th}) – 30(^{th})</td>
<td>Study Days</td>
</tr>
<tr>
<td>Tuesday, May 7(^{th}), 2023</td>
<td>Final Exam 2-4pm</td>
</tr>
</tbody>
</table>
Welcome and About Me
Hello everyone and welcome to class!

This class is going to teach you a lot and you will have fun while doing it.

I look forward to being your guide in learning new topics and challenging the way you view the world around you. I am a scientist to the core. I live my life by the scientific method and tend to frame everything in a biochemical context. My research career has taken me to many places including evolution of complex organs; the intersection of reproductive fidelity and cancer; and more recently, neuroscience. I think constantly about how we think and learn at the biochemical level. All these experiences have shaped the way I approach learning, teaching, and the topics we will discuss this semester.

This class is designed to be as stress free and interactive as possible. We have one class meeting a week. During each lecture period we will have a~1 hour of traditional lecture, a short break, an interactive assignment, and a group (you can also do it alone) assignment to enhance your understanding of the class. I believe in the power of “yet” so there are always opportunities to try again or show a deeper understanding of the material than you did before. We will approach learning in many ways. The goal of this class is to learn about the biological, environmental, and social causes of aging in contexts that matter. Yes, we will talk about basic research and model systems; but we will also watch popular media to critique and form our perspectives.

My goal is for everyone in the class to earn an A!

I care about equitable education, so these are my pledges to students:

- You will never lose points for being human. This means that if you get sick, have a family emergency, car crash, etc. and miss a deadline. You will not lose points. Mental health is health, so if you are late on an assignment because you are over extended, that is okay too.
- I will not grade you based on spelling or grammar. I am not an English professor so that is none of my business. Please note that you can lose points if the spelling and grammar makes what you are saying completely unclear or wrong.
- I will give you the benefit of the doubt.

Your Feedback is Important! (Student Course Evaluations)
Gerontology collects evaluations from students in the middle of semester during fall and spring semester. At the end of the semester Learning Experience Evaluations are also sent out. Please take the time to participate in this as it is very helpful to hear from students. It is also great when you just directly message me about it too.
Gerontology Inclusion Statement
The USC Leonard Davis School of Gerontology is committed to creating an inclusive classroom environment that values the diversity of all its members. The School is committed to providing a purposefully inclusive community where all members and visitors are free from all intolerant behavior (including but not limited to harassment, verbal or written abuse, threats, ridicule, or intimidation). We encourage all members within our community to embrace and learn from the diversity within our classroom, school, and university.

Course Description
Consideration of the biological and social-cultural factors that govern the evolution of life spans and the life of humans and selected animal models
Prerequisite(s): BISC 120 or BISC 121
Recommended Preparation: Some stats or at least the willingness to learn😊

Learning Objectives
Upon completion of this course, students will be expected to be able to:
- Why the study of lifespan is important and societal views on the biology of aging and age-related diseases
- How genes that modulate lifespan have been identified using model systems.
- Which biological pathways most potently influence lifespan and discuss the molecular mechanisms underlying this regulation.
- Implications of current research on future studies of human lifespan and age-related diseases.
- Most importantly, this class will provide students the means to break down a scientific hypothesis into its fundamental elements and critically analyze the validity of current theories and dogmas in the field.

The learning experience in this course will develop the following core competencies in Gerontology as described by the Academy for Gerontology in Higher Education (AGHE).

- “Frameworks for understanding aging: Utilize gerontological frameworks to examine human development and aging.
- Biological aspects of aging: Utilize gerontological frameworks to examine human development and aging.
- Research and Critical Thinking: Distinguish factors related to aging outcomes, both intrinsic and contextual, through critical thinking and empirical research.
- Attitudes and Perspectives: Develop a gerontological perspective through knowledge and self-reflection.
- Ethics and Professional Standards: Adhere to ethical principles to guide work with and on behalf of older persons.”


Textbook and Materials
The good news is that there is no required textbook for the course! However, much of what we will learn is covered in “Biology of Aging” by Rodger B. McDonald so having this text available during the course will helpful. There will be reading posted for each class meeting on Blackboard. The reading assignments are listed in the schedule at the end of this syllabus.
Technology Requirements

- Blackboard: Get access now if you don’t already have it. [Get Blackboard help here](#).
  - Used for course communication (e.g., announcements)
  - Discussion Boards
  - Reading material
  - Assignment downloads
  - General Course Content
- Zoom: We will use zoom as needed. [Get USC Zoom help here](#).
- Turnitin: This will be used for the term paper. [Please review instructions and help topics here](#).
- Presentation software: Prezi, PowerPoint, Keynote, Google Slides, etc.
- Microsoft Excel or Google Spreadsheets.
- Word processing, image capture (camera phone), and pdf reading technologies.
  - Note that depending on your own choices for assignment formats you may need more technology than this.
  - Check out the [software](#) you can get access to as USC student.

Course Communication

Please contact me through email ([mastro@usc.edu](mailto:mastro@usc.edu)). I am the best at checking and responding to emails. I will get back to you in 24 hours. If I do not get back to you in this time frame, please resend the message as soon as you can because messages can get lost, and I may not have gotten your message. I will communicate about the course primarily through blackboard announcements and email so please make sure you have access to check these messages.

Class Format

This class is designed to be as stress free and interactive as possible. We have one class meeting a week. During each lecture period we will have a~1 hour of traditional lecture, a short break, an interactive assignment, and a group (you can also do it alone) assignment to enhance your understanding of the class. I believe in the power of “yet” so there are always opportunities to try again or show a deeper understanding of the material than you did before. We will approach learning in many ways. The goal of this class is to learn about the biological, environmental, and social causes of aging in contexts that matter. Yes, we will talk about basic research and model systems; but we will also watch popular media to critique and form our perspectives.

Student Hours and Meetings

I will be available before and after class for short conversations. If you want to have more in depth discussions then you should email me three suggested times to meet and whether you want it to be in person or online. We will pick one of those times.

Grading and Late Assignments

Late work is accepted with no penalty when a student provides notice and a reason. Life happens and I would prefer you have the learning benefit of doing the work and getting those points than not. Exams must be completed during the exam window unless previously determined accommodations are made. Assignments will be turned in online. There are many different types of assessment in this course to facilitate learning. Regrade requests must be submitted within a week of receiving the score. Assignments will be graded within one week of their turn in. Please check the assignment descriptions for rubrics and expectations.
### Table 1: Point breakdown of assignment types and percentage of grade

<table>
<thead>
<tr>
<th>Assessment Tool</th>
<th>Points</th>
<th>Notes</th>
<th>% of Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-Class Work</td>
<td>50</td>
<td>One for each class meeting</td>
<td>10.00%</td>
</tr>
<tr>
<td>Op-Eds (1 page papers)</td>
<td>100</td>
<td>(20 points each x 5)</td>
<td>20.00%</td>
</tr>
<tr>
<td>Midterm 1</td>
<td>125</td>
<td>one of these</td>
<td>25.00%</td>
</tr>
<tr>
<td>Midterm 2</td>
<td>125</td>
<td>one of these</td>
<td>25.00%</td>
</tr>
<tr>
<td>Final (Midterm 2)</td>
<td>100</td>
<td>one of these</td>
<td>25.00%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>500</td>
<td></td>
<td><strong>100.00%</strong></td>
</tr>
</tbody>
</table>

### Table 2 - Percentage grade to letter grade conversion.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93.0% or higher</td>
</tr>
<tr>
<td>A-</td>
<td>90.0%-92.99%</td>
</tr>
<tr>
<td>B+</td>
<td>87.0%-89.99%</td>
</tr>
<tr>
<td>B</td>
<td>83.0%-86.99%</td>
</tr>
<tr>
<td>B-</td>
<td>80.0%-82.99%</td>
</tr>
<tr>
<td>C+</td>
<td>77.0%-79.99%</td>
</tr>
<tr>
<td>C</td>
<td>73.0%-76.99%</td>
</tr>
<tr>
<td>C-</td>
<td>70.0%-72.99%</td>
</tr>
<tr>
<td>D+</td>
<td>67.0%-69.99%</td>
</tr>
<tr>
<td>D</td>
<td>63.0%-66.99%</td>
</tr>
<tr>
<td>D-</td>
<td>60.0%-62.99%</td>
</tr>
<tr>
<td>F</td>
<td>59.9% or lower</td>
</tr>
</tbody>
</table>

### Grade Appeals and Disputed Grades

The Policy of the University is as follows, “A grade once reported to the Office of Academic Records and Registrar may not be changed except by request of the faculty member to the Committee on Academic Policies and Procedures on a Correction of Grade form. Changes should be requested only on the basis of an actual error in assigning the original grade, not on the basis of a request by the student or special consideration for an individual student. Students are not permitted to complete course work after the semester has ended.”

### Incompletes

As defined in the Academic Policies of USC, “If an IN is assigned as the student’s grade, the instructor will fill out the Assignment of an Incomplete (IN) and Requirements for Completion form, which will specify to the student and to the department the work remaining to be done, the procedures for its completion, the grade in the course to date and the weight to be assigned to the work remaining to be done when computing the final grade. A student may complete the IN by completing only the portion of required work not finished as a result of documented illness or emergency occurring after the twelfth week of the semester. Previously graded work may not be repeated for credit.” However, please note that the Registrar’s recommended definition of emergency is “An unforeseeable situation or event beyond the student’s control that prevents her from taking the final examination or final summative experience.”
Citing and Power of Paraphrasing

There is great power in paraphrasing. Paraphrasing will allow you to absorb and digest information as well as demonstrate to others that you are now very knowledgeable about a subject yourself. It is easy to quote a source verbatim, put it in quotes and then cite it, but this does not give you credibility as a new “expert” on the topic. Showing knowledge and understanding of a topic requires that you read your source, digest the information, and then deliver it in your own words. If you quote large blocks of information from your source, you will lose points in this course. Please also cite using in-line citations (author, year). Generally speaking, in scientific writing (and as a good practice for any sort of technical writing) when you say a fact, you need to provide an in-line citation of where you found that information. The only exception to this rule is for “common knowledge” in the field. Common knowledge is any fact that nearly all people in your audience widely know and accept, or can be easily observed (e.g., the sky is blue – just walk outside and look up).

Assignment Descriptions

In-Class Work/ Participation

The format of the class will be interactive. The class is three hours. Half of the time will be lecture and the other will be interactive learning. Participation will be tracked by turning class work assignment online.

Op-Ed (10 points each)

This is an area of the class that you get some freedom to express your thoughts. You will write a 1 page paper (single spaced 10 point font Arial). You will express your opinion and interpretation of a movie presented in class. There is no correct answer here but you must support your findings with literature and in-text citations (APA style).

Total of 10 points

2 points for page limit
2 points for at least 2 scientifically valid references (APA style).
2 points for accuracy of information presenting excluding opinions
2 points for logically applying the information from class topics
2 points for continuity of argument and overall craftsmanship
Note: I will not grade you on spelling and grammar unless it is insufficient to the extent the content cannot be understood

Public Awareness Campaign (Working in Small Student groups 3-4)

In this class we will have learned a lot about biology and the interaction of genes, physiology, and environment to create our aging experience. In this assignment you will get to apply this knowledge and perspective to build your epidemiological skills. You find a primary research article that relates to the course topics. You will use this article as a central focus of a topic that you need to educate the public about. Examples could be chemical exposures, negative impacts of stress, diet and exercise. There are four deliverables for this assignment. Then you will give a presentation on the information in the paper, describe what that means, what you want to the public to know about it, and when this is important

1. (40 points) A presentation that you would give to donors or directors to get funding to make this public awareness campaign a reality.
2. (40 points) A summary and analysis of the primary research article the campaign is based on. Each student writes their own.
3. (20 points) Peer review of another group’s project
Rubric Presentation (point 1)
(10 points) Define the issue: current knowledge with details (e.g., model systems used, key points, change that is needed. You will frame this using the information learned in class as well as other sources. You must cite your sources of information on the slide you are using that information.
(10 points) Describe and interpret the focus paper.
(10 points) Describe what you want the public to take away from this article.
(5) Public speaking skills: clear voice, well-practiced, no excessive reading from slides or cards, professionalism, and correct timing.
(5) Appropriate visuals: The visuals are logical to complement, enhance, or convey the information presented.

Rubric for the individual paper (point 2)
(5 points) Summarize why this work was done.
(15 points) Summarize the key findings of the paper. Be specific.
(10 points) Summarize how this fits into what we have been learning about this semester.
(5 points) Provide your analysis of the paper. What was convincing and what was not?
(5 points) Use current and legitimate resources to back up your thoughts.

Complete Pear Review (point 3)
1. Did the students fulfill the requirements for the presentation? Explain. (5 points)
2. How does this campaign relate to what we have discussed in class? (11 points)
   a. Are you convinced of the campaign, why or why not? Be specific use examples from what we have learned.
3. Give at least two constructive comments for improvement. (2 points)
4. Give at least two strengths of the project as a whole. (2 points)

Exams
These will be classic multiple choice and free response exams. The exams will be done independent open note & book. These exams are designed and give you the benefits of a classic test taking performative experience. I know that classic exam formats have the reputation of being really stressful. The in-class-work is designed to prepare you for the exam (some of the questions are on the exam) and thus make the test taking experience exciting and victorious rather than stressful and completely unpleasant. Since I believe in the power of yet, you will have an opportunity to earn points back on the exam if you do not do as well as you wanted. Again, no stress here!

Attendance and Participation
While your physical presence in the room is not required, much of your experience in this course will be shaped by active participation in class. If you need to miss a class, please contact immediately for accommodation before you miss the class. We will have Zoom available and recording for students who cannot join for any number of reasons because life happens.

Religious Accommodations
University of Southern California policy permits students to be excused from class for the observance of religious holy days. This policy also covers scheduled final examinations which conflict with students’ observance of a holy day. Students must make arrangements in advance to complete class work which will be missed, or to reschedule an examination, due to holy days observance. For more information, please visit the Office of Religious Life for the full policy: https://orsl.usc.edu/life/calendar/absences/
Academic Integrity

Leonard Davis School of Gerontology Statement on Academic Integrity
The USC Leonard Davis School of Gerontology expects all students to display the utmost integrity when submitting work in classes. Students must avoid plagiarism or cheating, which are serious offenses under USC’s principles of academic integrity. Plagiarism includes both submitting work authored by another person without proper acknowledgement of the source and reusing any portion of your own previously submitted work without the permission of the instructor. Cheating can include unauthorized collaboration on any assignment unless it is expressly permitted by the instructor. When instructed by your professor, you may work together on assignments, but you must each write your own answers individually as part of the honor policy. If you have any questions about how to properly cite your sources, or whether your conduct is permitted, please contact your instructor before submitting your work. For more information about USC’s Student Community Expectations, you can review the USC Student Handbook at USC_StudentCode_August2022.pdf.

USC Statement on Academic Integrity
The University of Southern California is foremost a learning community committed to fostering successful scholars and researchers dedicated to the pursuit of knowledge and the transmission of ideas. Academic misconduct is in contrast to the university’s mission to educate students through a broad array of first-rank academic, professional, and extracurricular programs and includes any act of dishonesty in the submission of academic work (either in draft or final form).

This course will follow the expectations for academic integrity as stated in the USC Student Handbook. All students are expected to submit assignments that are original work and prepared specifically for the course/section in this academic term. You may not submit work written by others or “recycle” work prepared for other courses without obtaining written permission from the instructor(s). Students suspected of engaging in academic misconduct will be reported to the Office of Academic Integrity.

Other violations of academic misconduct include, but are not limited to, cheating, plagiarism, fabrication (e.g., falsifying data), knowingly assisting others in acts of academic dishonesty, and any act that gains or is intended to gain an unfair academic advantage.

The impact of academic dishonesty is far-reaching and is considered a serious offense against the university and could result in outcomes such as failure on the assignment, failure in the course, suspension, or even expulsion from the university.

For more information about academic integrity see the student handbook or the Office of Academic Integrity’s website, and university policies on Research and Scholarship Misconduct.

Please ask your instructor if you are unsure what constitutes unauthorized assistance on an exam or assignment, or what information requires citation and/or attribution.

Student Resources

Counseling and Mental Health - (213) 740-9355 – 24/7 on call
Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.
**988 Suicide and Crisis Lifeline** - 988 for both calls and text messages – 24/7 on call
The 988 Suicide and Crisis Lifeline (formerly known as the National Suicide Prevention Lifeline) provides free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week, across the United States. The Lifeline is comprised of a national network of over 200 local crisis centers, combining custom local care and resources with national standards and best practices. The new, shorter phone number makes it easier for people to remember and access mental health crisis services (though the previous 1 (800) 273-8255 number will continue to function indefinitely) and represents a continued commitment to those in crisis.

**Relationship and Sexual Violence Prevention Services (RSVP)** - (213) 740-9355(WELL) – 24/7 on call
Free and confidential therapy services, workshops, and training for situations related to gender- and power-based harm (including sexual assault, intimate partner violence, and stalking).

**Office for Equity, Equal Opportunity, and Title IX (EEO-TIX)** - (213) 740-5086
Information about how to get help or help someone affected by harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants.

**Reporting Incidents of Bias or Harassment** - (213) 740-5086 or (213) 821-8298
Avenue to report incidents of bias, hate crimes, and microaggressions to the Office for Equity, Equal Opportunity, and Title for appropriate investigation, supportive measures, and response.

**The Office of Student Accessibility Services (OSAS)** - (213) 740-0776
OSAS ensures equal access for students with disabilities through providing academic accommodations and auxiliary aids in accordance with federal laws and university policy.

**USC Campus Support and Intervention** - (213) 740-0411
Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

**Diversity, Equity and Inclusion** - (213) 740-2101
Information on events, programs and training, the Provost’s Diversity and Inclusion Council, Diversity Liaisons for each academic school, chronology, participation, and various resources for students.

**USC Emergency** - UPC: (213) 740-4321, HSC: (323) 442-1000 – 24/7 on call
Emergency assistance and avenue to report a crime. Latest updates regarding safety, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible.

**USC Department of Public Safety** - UPC: (213) 740-6000, HSC: (323) 442-1200 – 24/7 on call
Non-emergency assistance or information.

**Office of the Ombuds** - (213) 821-9556 (UPC) / (323-442-0382 (HSC)
A safe and confidential place to share your USC-related issues with a University Ombuds who will work with you to explore options or paths to manage your concern.

**Occupational Therapy Faculty Practice** - (323) 442-2850 or otpf@med.usc.edu
Confidential Lifestyle Redesign services for USC students to support health promoting habits and routines that enhance quality of life and academic performance.
Statement for Students with Disabilities

USC welcomes students with disabilities into all of the University’s educational programs. The Office of Student Accessibility Services (OSAS) is responsible for the determination of appropriate accommodations for students who encounter disability-related barriers. Once a student has completed the OSAS process (registration, initial appointment, and submitted documentation) and accommodations are determined to be reasonable and appropriate, a Letter of Accommodation (LOA) will be available to generate for each course. The LOA must be given to each course instructor by the student and followed up with a discussion. This should be done as early in the semester as possible as accommodations are not retroactive. More information can be found at osas.usc.edu. You may contact OSAS at (213) 740-0776 or via email at osasfrontdesk@usc.edu.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Thursday, January 11, 2024</td>
<td>Introduction to the Course</td>
<td>Syllabus</td>
</tr>
<tr>
<td>2</td>
<td>Thursday, January 18, 2024</td>
<td>Basic Concepts of the Biology of Aging</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>3</td>
<td>Thursday, January 25, 2024</td>
<td>Measuring Biological Age Op-Ed 1 Movie Viewing: Limitless Episode 6</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>4</td>
<td>Thursday, February 1, 2024</td>
<td>Aging Theories</td>
<td>Chapter 3</td>
</tr>
<tr>
<td></td>
<td><strong>Op-Ed 1 due on Friday, February 2, 2024</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Thursday, February 8, 2024</td>
<td>Telomeres and Senescence</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>6</td>
<td>Thursday, February 15, 2024</td>
<td>Mitochondria and ROS Op-Ed 2 Movie Viewing: Live to 100 Episode 2</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>7</td>
<td>Thursday, February 22, 2024</td>
<td></td>
<td><strong>Midterm 1</strong></td>
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<tr>
<td></td>
<td><strong>Op-Ed 2 due on Friday, February 23, 2024</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Thursday, February 29, 2024</td>
<td>Cellular Rejuvenation: Stem cells, protein turnover, the proteasome, immune system</td>
<td>Chapter 5 (first two sections)</td>
</tr>
<tr>
<td>9</td>
<td>Thursday, March 7, 2024</td>
<td>Dietary Restriction, Fasting, and nutrient signaling pathways Op-Ed 3 Viewing: Limitless Episode 3</td>
<td>Chapter 10</td>
</tr>
<tr>
<td>10</td>
<td>Thursday, March 14, 2024</td>
<td><strong>Spring Recess</strong></td>
<td>No Class</td>
</tr>
<tr>
<td></td>
<td><strong>Op-Ed 3 due on Friday, March 15, 2024</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Thursday, March 21, 2024</td>
<td>DNA Damage and Cancer</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Thursday, March 28, 2024</td>
<td>Progeria, Aging and disease Op-Ed 4 Movie Viewing: Life According to Sam</td>
<td>Chapter 8</td>
</tr>
<tr>
<td>13</td>
<td>Thursday, April 4, 2024</td>
<td>Alzheimer’s Disease</td>
<td>Chapter 9</td>
</tr>
<tr>
<td></td>
<td><strong>Op-Ed 4 due on Friday, April 5, 2024</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 14 | Thursday, April 11, 2024 | Blue Zones  
Op-Ed 5 Movie Viewing: Live to 100 |
| 15 | Thursday, April 18, 2024 | Midterm 2 |
| 16 | Thursday, April 25, 2024 | Public Campaign Work Day |

**Op-Ed 5 due on Friday, April 26, 2024**

| Finals | Tuesday May, 7th 2-4pm | Public Campaign Presentation Party  
(You have already put in the work, it is time to show it off.) |