

UW Oshkosh Graduate Course Offerings for Summer 2019

**UW Oshkosh Summer Courses run in two sessions:
Summer Session I (SSI) June 17 – July 12
and Summer Session II (SSII) July 13 – August 9, 2019**

Course Information, Descriptions, Contact Information

Feel free to contact the instructor if you have questions about the course.

Biology

Bio 523 Molecular and Cell Biology

(Fully online - 3 credits – 8 weeks SSI and II) Dr. Lisa Dorn dorn@uwosh.edu

This course covers the fundamental elements of molecular and cellular biology, including some current research techniques. Molecular biology covers structure, function and biosynthesis of DNA, RNA and proteins as well as regulation of gene expression. Cell biology examines cellular structures and how they accomplish replication, metabolism and response to the environment.

Bio 515 Virology

(Fully online - 3 credits – 4 weeks SSI) Dr. Teri Shors shors@uwosh.edu

Principles of animal and human molecular virology. Topics include replication, expression, pathogenesis, methods of diagnosis and detection, current uses of viruses in gene therapy and vaccine applications, viruses and cancer and other diseases, persistent infections, and emerging viruses.

Bio 766 – Advanced Topics in Biology – Gene Regulation

(Fully online - 3 credits – 8 weeks SSI and II) Dr. Todd Kostman kostman@uwosh.edu

This course will examine, in detail, the different ways by which genes are regulated (turned on or off) in eukaryotic cells. Topics will include: DNA packing, transcriptional, post-transcriptional, translational, and post translation levels of gene regulation. Activities will include textbook readings, videos, analysis of current research in these areas, discussions, and short digital lectures from the instructor.

Communication Studies

Comm 518 Intercultural Communication for Teachers

(Fully online - 3 credits – 4 weeks SSI) Dr. Danielle Kvam kvamd@uwosh.edu

This course explores how instructors of college-level public speaking courses may apply an intercultural framework when creating and teaching their courses. Students investigate theories and concepts of intercultural communication, applying these theories and concepts to create lessons, assignments, assessment measures, and a classroom context that acknowledges the mutually constitutive nature of culture and communication.

Education

Edu 716 Topics in Education – Diverse Linguistic Communities

(Fully online – 3 credits – 4 weeks SSI) Staff (contact Don Hones hones@uwosh.edu with questions and for complete course description.)

Sec Ed 716 Issues in PK-12 Education

(Fully online - 3 credits – 4 weeks SSI) Instructor TBD; for more information contact the department chair, Dr. Donald Hones hones@uwosh.edu

This course is an examination of current critical issues in education on the local, state, national and international levels, with particular reference to early childhood, elementary, middle and high schools.

For Elmbrook participants, instruction will be in-person at the Elmbrook School District.

English

Eng 701 Seminar in Literature: British Poetry for the High School Classroom

(Fully online - 3 credits – 4 weeks SSII) Dr. Christine Roth roth@uwosh.edu

This course will focus on the explication and critical analysis of a sampling of British poetry that works especially well in high-school-level and general-education-level classes. We will read and discuss works by authors such as William Shakespeare, John Donne, William Blake, John Keats, Alfred Tennyson, Matthew Arnold, Robert Browning, Elizabeth Barrett Browning, W.H. Auden, Thomas Hardy, and T.S. Eliot. We will examine the historical/cultural context for the works and the way the texts reflect and resist generic/prosodic conventions.

Eng 594 Multi-Ethnic Literature

(Fully online - 3 credits – 4 weeks SSI) Dr. Abayomi Animashaun animasha@uwosh.edu

English 594 is a Multiethnic literature course that explores the history of immigration in the United States, major events in immigration discourse, and considerations on assimilation and the immigrant experience, particularly in the works of American poets from the colonial era to modern times. At its core, English 594 is an interdisciplinary course aimed at shedding light on a topical issue that is at the forefront of our country's national discourse.

History

HST 790 Special Topics: U.S. Slavery

(Fully online – 3 credits – 4 weeks SS I) Dr. Michelle Kuhl kuhlm@uwosh.edu

This online course will cover United States slavery from the Atlantic slave trade through emancipation in the Civil War. We will study the historiography of slavery and regional variations in slavery. Students will read recent monographs and primary documents to understand the complex power relationship between masters and slaves as well as how slavery shaped gender identities and the transmission of African culture to America.

Throughout the course, we will ponder the nature of resistance to oppression and look at the varied ways slaves maintained their humanity in the face of inhuman circumstance

Journalism

Journal 710 Current Issues in Journalism and Technology

(Fully online - 3 credits – 4 weeks SSII) Dr. Vincent Filak filakv@uwosh.edu

A series of discussions by faculty and guest lecturers on current trends, issues, problems and services in journalism and technology followed by class discussion and hands-on activities. Theme will vary frequently. May be repeatable up to 3 credits. Course may be taken three times provided the subject of the course is not repeated. Prerequisite: Bachelor's Degree.

Math

Math 717 Nonlinear Dynamics and Chaos

(Hybrid - 3 credits – 4 weeks SSI) Day/Time TBD Dr. Zoubir Benzaid

benzaid@uwosh.edu

This course will be taught in **hybrid format** with two face-to-face on campus class sessions per week.

This course is an introduction to the study of dynamical systems. Nonlinear differential equations and iterative maps arise in the mathematical description of numerous systems throughout science and engineering, for instance in physics, chemistry, biology, economics, and elsewhere. Such systems may display complicated and rich dynamical behavior, and we will develop some linear and nonlinear mathematical tools for their analysis, and consider models in such fields as population biology, ecology, and mechanical and electrical oscillations. We will proceed from simpler to more complicated (and more interesting!) systems. By the end of the course you will understand terms such as bifurcations, limit cycles, Lorenz equations, chaos, iterated maps, period doubling, fractals and strange attractors. Along the way we will consider interesting and important applications such as mechanical vibrations, lasers, biological rhythms, superconducting circuits, insect outbreaks, chemical oscillators, chaotic waterwheels, and even a technique for using chaos to send secret messages. The course will stress conceptual ideas, geometric intuition and concrete examples and applications. The mathematical treatment will be friendly and informal but still careful and we will rely for most of the computations on the powerful and extremely user friendly scientific software Maple.

Physics

Physics 746 Workshop on Current Topics: Introduction to Modeling and

Computation for Teachers (Traditional classroom - 2-3 credits – 4 weeks SSI) Dr. Mark

Lattery lattery@uwosh.edu

Physics 746 Workshop on Current Topics: Energy and Matter for Teachers

(Traditional classroom - 2-3 credits – 4 weeks SSII) Dr. Mark Lattery

lattery@uwosh.edu

Political Science

Pol Sci 370/570 Special Topics in Political Science: the Politics of Climate Change

(Fully online - 3 credits – 8 weeks SSI and SSII) Dr. Jason Kalmbach

kalmbacj@uwosh.edu

This is an online course that familiarizes students with what we know about climate change, what we are currently doing about it, and how we can analyze existing solutions and their potential for success. Policy theories will be applied to the discussion throughout the course.

***Coming soon: **Phy Edu and Health Edu** online graduate courses for summer...