NW COURSES

Winter Quarter 2019 courses

Please note: class times, locations, fees, class enrollments and course descriptions may change. Check the time schedule or MyPlan for updates before registering.

Astronomy

ASTR 101 – Astronomy (5 credits)
MWF 11:30 – 12:20
Quiz T/Th, times vary
Instructor: Oliver Fraser
$10 course fee
QSR credit
Introduction to the universe, with emphasis on conceptual, as contrasted with mathematical, comprehension. Modern theories, observations; ideas concerning nature, evolution of galaxies; quasars, stars, black holes, planets, solar system. Not open for credit to students who have taken 102 or 201; not open to upper-division students majoring in physical sciences or engineering.

ASTR 105 – Exploring the Moon (5 credits)
MWF 9:00-10:20
Instructor: Toby Smith
Examines the questions why did we go to the moon, what did we learn, and why do we want to go back.

ASTR 115 – Intro to Astrobiology (5 credits)
MWF 1:30-2:20
Quiz TTh, times vary
Instructor: TBA
Introduction to the new science of astrobiology, study of the origin and evolution of life on Earth, and the search for microbial and intelligent life elsewhere in the Universe. Designed for non-science, liberal arts majors. Offered jointly with ASTBIO 115/BIOL 114/ESS 115/OCEAN 115.

ASTR 150 – The Planets (5 credits)
TTh 10:00 – 11:20
Quiz M/W, times vary
Instructor: Nicole Kelly
$10 course fee
QSR credit
Where did our Solar System come from? What is it made of? Are we alone? What else is 'out there'? These are some of the natural and fundamental questions that humans have been asking since the dawn of time. Given the complexity and diversity of such questions, it is not at all surprising that astronomy itself is a diverse and interesting field of study. Over the next ten weeks we will explore the planets of the Solar System in the hopes of bringing you closer to answering these and, undoubtedly numerous other questions you may already have or will have as we move along in this course.

Whether you are an avid backyard astronomer complete with your own telescope or a complete newbie to astronomy or any science class, I am sure you will enjoy the material in this course. The course is open to all students and there are no prerequisites.

ASTR 190A – Topics in Astronomy for Non-Science Majors: Cosmologies and Cultures (3 credits)
MW 1:30-2:50
**Instructor:** Bruce Balick  
**Prerequisite:** either one 100- or one 200-level ASTR course.  
A Non-mathematical, descriptive introduction to the big bang theory of cosmology and how new observations have changed it over the past century. Faculty from UW Humanities and Social Science departments will lecture on the varying ideas in ancient and modern cultures around the world about how we came to be.

**Atmospheric Sciences**  

**ATM S 101 – Weather** (5 credits)  
MTWTh 11:30 – 12:20  
Quiz Th/F, times vary  
**Instructor:** Clifford Mass  
The earth’s atmosphere, with emphasis on weather observations and forecasting. Daily weather map discussions. Highs, lows, fronts, clouds, storms, jet streams, air pollution, and other features of the atmosphere. Physical processes involved in weather phenomena. Intended for non-majors.

**ATM S 111 – Global Warming** (5 credits)  
MTWTh 10:30 – 11:20  
Quiz on Th/F, times vary  
**Instructor:** Kathleen Huybers  
Includes a broad overview of the science of global warming. Discusses the causes, evidence, future projections, societal and environmental impacts, and potential solutions. Introduces the debate on global warming with a focus on scientific issues.

**ATM S 220 – Exploring the Atmospheric Sciences** (1 credit)  
Th 12:30-1:20  
**Instructor:** Dargan Frierson  
Focuses on current research in the atmospheric sciences and the related implications for public health, business, and environmental policy. Credit/no-credit only.

**ATM S 290 – Weather Challenge** (1 credit)  
M 12:30-1:20  
**Instructor:** Lynn McMurdie  
Includes participation in a national weather forecast contest; weekly discussion on forecast models, forecasting methods, and unique considerations for specific forecast locations. Prerequisite: either ATM S 101 or ATM S 301. Credit/no-credit only.  
**Note:** this course starts late and ends during spring break. Contact Prof. McMurdie about registration or entry codes.

**Biocultural Anthropology**  

**Bio A 201 – Principles of Biological Anthropology** (5 credits)  
MW 8:30-10:20  
Quiz T, times vary  
**Instructor:** Andrea Duncan  
Evolution and adaptation of the human species. Evidence from fossil record and living populations of monkeys, apes, and humans. Interrelationships between human physical and cultural variation and environment; role of natural selection in shaping our evolutionary past, present, and future.

**Bio A 208 – Sex and Evolution** (5 credits)  
MWF 1:00-2:20  
**Instructor:** Alexander Hill  
Addresses the evolution of sexual reproduction and mating behavior, particularly as exhibited by humans. Focuses on concepts such as natural selection, sexual selection, and kin selection. Demonstrates how evolution can inform our understanding of sexual strategies, conflict, and orientation, as well as marriage, parenthood, and mate preferences.

**Comparative History of Ideas**  
Chid 250C – Special Topics: Underworld Poetics: Writing from other Dimensions (5 credits)
TTh 10:30-12:20
Instructor: July Hazard
Writing credit
Visionary poets can stand in strange relation to the world. Some come from or speak from another world. Others inhabit worlds that are illuminated, haunted, or transparent. Some recount travel between layers of reality or report enhanced encounters with nonhuman beings. This class explores ways some writers cross into and write out of other dimensions – including punk clubs, gay underworlds, subway tunnels, fleabag hotels, outer space, undersea civilizations, angelic and demonic realms. Class writings will probe poetic relations to natural and social environments, via automatic writing, somatic composition, text collage and other experiments. Students will keep illustrated journals of their otherworldly engagements, and construct or improvise underworlds. Offered jointly with C LIT 250C.

Earth and Space Sciences
http://www.washington.edu/students/timeschd/WIN2019/ess.html

ESS 100 – Dinosaurs (2 credits)
MW 12:30-1:20
Instructor: Ruth Martin
Subscription to Top Hat required. See MyPlan for details.
Biology, behavior, ecology, evolution, and extinction of dinosaurs, and a history of their exploration. With dinosaurs as focal point, course also introduces the student to how hypotheses in geological and paleobiological science are formulated and tested.

ESS 101 - Intro to Geology and Societal Impacts (5 credits)
MWF 2:30-3:20
Lab M/T/W/Th, times vary
Instructor: Terry Swanson
$30 course fee required.
Survey of the physical systems that give the earth its form. Emphasizes the dynamic nature of interior and surface processes and their relevance to mankind and stresses the value of rocks and earth forms in the understanding of past events. A course with laboratory for non-science majors. Not open for credit to students who have taken ESS 105, or ESS 210. Field trips.

ESS 102 – Space and Space Travel (5 credits)
MWF 11:30-12:20
Quiz TTh, times vary
Instructor: Robert Winglee
$20 course fee required.
Optional writing credit, see Time Schedule or MyPlan for details.
Explores powering the sun, making of space weather conditions, observations from space and from Earth, Earth's space environment, radiation belts and hazards, plasma storms and auroras, electron beams, spacecraft requirements, tooling up for manned exploration. Open to non-science majors.

ESS 106 – Living with Volcanoes (3 credits)
MWF 1:30-2:20
Instructor: Michael Harrell
Explores volcanoes and volcanic eruptions on Earth and in the solar system. Examines how volcanoes work and how they affect the environment, life, and human societies. Illustrates principles using local examples of recent volcanism and ancient examples of mega-eruptions. Evaluates the possibility of predicting future eruptions.

ESS 202 – Earthquakes (5 credits)
MWF 10:30-11:20
Quiz M/W, times vary
Instructor: TBA
Add code required. See Time Schedule or MyPlan for details.
Earthquakes of the Pacific Northwest and around the world - their cause and relationship to plate tectonics; why, where, and when they occur. How earthquakes affect human life: shaping landscape, hazards. Laboratory explores physical processes associated with earthquakes. One field trip. Open to non-science majors.
Environmental Studies
http://www.washington.edu/students/timeschd/WIN2019/envst.html

ENVIR 100 – Environmental Studies: Interdisciplinary Foundations (5 credits)
MWF 9:30-10:20
Quiz T/W/Th, times vary
Instructor: Elizabeth Wheat & Kristina Straus
Introduces environmental studies through interdisciplinary examination of the ethical, political, social, and scientific dimensions of current and historical environmental issues. Integrates material from different disciplines, and applies insights and methods to actual problems and situations at scales from the local to the global.

ENVIR 239 – Sustainable Choices (3/5 credits)
MWF 12:30-1:20
Instructor: Kristina Straus
5 credit option includes service learning component
Presents frameworks of sustainability via exploration of key pillars of sustainability, the history of sustainability movements, and sustainability in action. Students examine personal and global aspects of sustainability through issues such as smart growth, environmental and natural building, green business and energy, ecotourism, and international policy.

Environmental Science and Resource Management
http://www.washington.edu/students/timeschd/WIN2019/esrm.html

ESRM 300 – Sustainability Seminar (2 credits)
T 2:30-4:20
Instructor: Phillip Levin
Open to all majors starting 11/19.
Overview of principles of sustainability, including discussion of current literature, presentation, and discussion with practitioners, and methods for balancing social, economic, and ecological consequences of proposed policies and actions. Students develop a plan to further their studies in natural resources and environmental sustainability. Credit/ no credit only.

Fisheries
http://www.washington.edu/students/timeschd/WIN2019/fish.html

Fish 101: Water and Society (5 credits)
MWF 9:30-10:20
Quiz T/Th, times vary
Instructors: Julian Olden
FRESHWATER is: *Essential for life.* The oil of the 21st century. *Breeding ground of the most dangerous human diseases.* Losing species faster than any other ecosystem.* A reason to launch a war? Come learn about how, despite the abundance of water on Earth, freshwater is coming under increasing pressure as human populations increase and climates warm. These changes affect not only those ecosystems, but also human health and how we interact with each other both politically and socially. Come learn about how social changes might reduce human impacts on fresh water systems, locally, nationally and internationally. You'll also learn how to calculate your own personal water footprint and explore ways to reduce consumption of this valuable resource! No prerequisites. Open to all majors.

Informatics
http://www.washington.edu/students/timeschd/WIN2019/info.html

Info 101 – Social Networking (5 credits)
F 1:30-2:20
Quiz MW/TTh, times vary
Instructor: Bob Boiko
Note: some quiz sections require laptops. See Time Schedule or MyPlan for details.
Explores today's most popular social networks, gaming applications, and messaging applications. Examines technologies, social implications, and information structure. Focuses on logic, databases, networked delivery, identity, access, privacy, ecommerce, organization, and retrieval.
Nutrition
http://www.washington.edu/students/timeschd/WIN2019/nutrit.html

NUTR 141 – Intro to Foods (5 credits)
MW 8:30-10:20pm
Instructor: Anne-Marie Gloster
Examines how foods are used by different people and cultures to deliver nutrients and energy. Explores the evolution of the global food supply, food preparation techniques, food patterns, and eating habits as they relate to diets, nutrition, and personal and public health.

NUTR 303 – Food Systems II: Individual to Population Health (5 credits)
TTh 2:30-3:50
Quiz F, times vary
Instructor: Adam Drewnowski
$5 required course fee
Examines the food environment in the local community from the public health perspective. Explores where people get their food, what influences this decision, and various aspects of the local food movement, including access to healthy food, urban agriculture, farmers markets, and other public health nutrition initiatives. Includes a weekly discussion section. Prerequisite: NUTR 200.

NUTR 390 – Food Seminar: Coffee: From Cultivation to Cupping (1 credit)
T 10:30-11:20
Instructor: Anne-Marie Gloster
Examines current food, culinary, and food system issues from production, processing, and marketing to consumption, nutrition, and health. Includes diverse perspectives from producers, processors, public health professionals, and relevant research. Credit/no-credit only.

Oceanography
http://www.washington.edu/students/timeschd/WIN2019/ocean.html

Ocean 102 – The Changing Oceans (5 credits)
Lecture section to be arranged. This is a hybrid course. All lecture materials are online. In-person weekly quiz sections are required.
Quiz T/W, times vary
Instructor:  Mikelle Nuwer
Case studies of research on how the ocean drives our planet's climate system and how humans have altered marine and coastal environments. Students consider societal factors affecting progress in marine science, changing popular attitudes toward the oceans, and key current policy implications of marine science. Intended for non-majors.

Ocean 121 – Deep Sea Vents: Volcanos and Life in the Deep Sea (2 credits)
W 2:30-4:20
Instructor: Deborah Kelley
Examines the dynamic marine processes that shape the planet and cutting-edge oceanographic technologies used to explore the deepest oceans. Includes imagery of rarely seen submarine volcanic eruptions, hot springs, and novel life forms highlighting the interconnected geological-biological processes creating the most extreme environments on Earth.

Philosophy
http://www.washington.edu/students/timeschd/WIN2019/phil.html

Phil 120 – Intro to Logic (5 credits)
MWF 9:30-10:20
Quiz TTh, times vary
Instructor:  Ian Schnee
QSR credit
Elementary symbolic logic. The development, application, and theoretical properties of an artificial symbolic language designed to provide a clear representation of the logical structure of deductive arguments.

Physics
www.washington.edu/students/timeschd/WIN2019/phys.html
Phys 110 – Liberal Arts Physics (5 credits)
MTThF 12:30-1:20
Instructor: Alejandro Garcia
QSR credit
Physics for students in the arts, humanities and social sciences. Students get a flavor of what physics is about, including scientific procedures. We will focus on the theory of Relativity. This revolutionized physics in 1905 and led to amazing predictions, like the existence of black holes and the production of gravitational waves, confirmed in 2016. Only math at high school level is required.

Psychology
http://www.washington.edu/students/timeschd/WIN2019/psych.html

Psych 202 – Biopsychology (5 credits)
MTWTh 12:30-1:20
Quiz F, times vary
Instructor: Lauren Kathleen
Examines the biological basis of behavior, the nervous system, how it works to control behavior and sense the world, and what happens when it malfunctions. Topics include learning and memory, development, sex, drugs, sleep, the senses, emotions, and mental disorders. Prerequisite: PSYCH 101.

Statistics
http://www.washington.edu/students/timeschd/WIN2019/stat.html

Stat 220 – Principles of Statistical Reasoning (5 credits)
MWF 8:30-9:20
Quiz TTh, times vary
Instructor: Mark Calogero
QSR credit
Introduces statistical reasoning. Focuses primarily on the “what” and “why” rather than the “how”. Helps students gain an understanding of the rationale behind many statistical methods, as well as an appreciation of the use and misuse of statistics. Encourages and requires critical thinking. Students may receive credit for only one of Stat 220, Stat 311, Stat/CS&SS/SOC 221, and Econ 311.

Stat 221 – Statistics for the Social Sciences (5 credits)
MWF 3:30-4:20
Quiz TTh, times vary
Instructor: Carolina Johnson
QSR credit
Develops statistical literacy. Examines objectives and pitfalls of statistical studies; study designs, data analysis, inference; graphical and numerical summaries of numerical and categorical data; correlation and regression; and estimation, confidence intervals, and significance tests. Emphasizes social science examples and cases. Students may receive credit for only one of Stat 220, Stat 311, Stat/CS&SS/SOC 221, and Econ 311.

Stat 311 – Elements of Statistical Methods (5 credits)
MWF 2:30-3:20
Quiz TTh, times vary
Instructor: Martina Morris
QSR credit
Elementary concepts of probability and sampling; binomial and normal distributions. Basic concepts of hypothesis testing, estimation, and confidence intervals; t-tests and chi-square tests. Linear regression theory and the analysis of variance. Students may receive credit for only one of Stat 220, Stat 311, Stat/CS&SS/SOC 221, and Econ 311. Prerequisite: either Math 111, Math 120, Math 124, Math 127, or Math 144.