Winter Quarter 2018 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 TTh, 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 150 – The Planets (5 credits)
TTh 10:00 – 11:20
Quiz MW, 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.

ASTR 211 – Universe and Change (5 credits)
T 12:30-2:20
ThF 12:30-1:50
Instructor: Ana Larson
QSR credit
Gravity as central to the form and evolution of the universe. Conceptual formulation of gravity from the Renaissance to Einstein. Its consequences from the falling of an apple to the slowing of the expansion of the universe.
Atmospheric Sciences
http://www.washington.edu/students/timeschd/WIN 2018/atmos.html

ATM S 101 – Weather (5 credits)
MTWTh 11:30 – 12:20
Quiz Th/F, times vary
Instructor: Gregory Hakim
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: Abigail Swann
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: Thomas Ackerman
Focuses on current research in the atmospheric sciences and the related implications for public health, business, and environmental policy. Credit/no-credit only.

Biocultural Anthropology
http://www.washington.edu/students/timeschd/WIN2018/bioanth.html

Bio A 201 – Principles of Biological Anthropology (5 credits)
MWThF 8:30-9:20
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)
MWThF 12:30-1:20
Quiz M/W/Th, times vary
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.

Earth and Space Sciences
http://www.washington.edu/students/timeschd/WIN2018/ess.html

ESS 100 – Dinosaurs (2 credits)
MW 9:30-10:20
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.
No pre-reqs.
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: Erika Harnett  
$20 course fee required.  
Writing credit.  
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: Carl Ulberg  
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.

**ESS 203 – Glaciers and Global Change (5 credits)**
MWF 1:30-2:20  
Lab T/Th, times vary  
Instructor: Edwin Waddington  
$12 course fee  
Explores how glaciers record climate change and human activities through bubbles of ancient air and trace impurities in the ice. Also reviews glaciers impact on societies through sea-level, coastlines, water supplies, and transportation routes. Open to non-science majors.

**Environmental Studies**  

**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**  

**ESRM 300 – Sustainability Seminar (2 credits)**
T 2:30-4:20  
Instructor: Phillip Levin  
Open to all majors starting 11/20.  
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.

ESRM 429 – ESRM Management Seminar (1 credit)
T 8:30-9:20
Instructor: David Butman
Weekly seminars covering water resources and watershed topics with lectures from scientists on and off campus. Credit/no credit only.

ESRM 455 – Wildlife Seminar (1 credit)
M 3:30-4:50
Instructor: Laura Pugh
Discussion of current research and application in wildlife biology and conservation. Credit/no credit only.

Fisheries
http://www.washington.edu/students/timeschd/WIN2018/fish.html

Fish 101: Water and Society (5 credits)
MWF 9:30-10:20
Quiz T/Th, times vary
Instructors: TBA
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.

Geography
http://www.washington.edu/students/timeschd/WIN2018/geog.html

Geog 205 – Global Environment (5 credits) MWF 10:30-11:20
M/T, times vary Instructor: Christine Biermann
Explores environmental systems using a geographic perspective that emphasizes spatial patterns of phenomena, relationships between different places, and interconnections between people and environment. Evaluates causes, consequences, and solutions to environmental problems. Topics include climate, atmosphere, water, ecosystems, and soils.

History - Comparative and Transregional
http://www.washington.edu/students/timeschd/WIN2018/hstcmp.html

HSTCMP 313 – Science in Civilization: Physics and Astrophysics Since 1850 (5 credits) MW 12:30-2:20 Instructor: Bruce Hevly Writing credit
Organization and pursuit of the physical and astrophysical sciences, focusing on the major unifying principles of physics and astronomy and the social and cultural settings in which they were created. Offered jointly with ASTR 313.

Nutrition
http://www.washington.edu/students/timeschd/WIN2018/nutrit.html

NUTR 200 – Nutrition (4 credits) MWF 4:30-5:20pm
Quiz T/Th/F, times vary Instructor: Anne-Marie Gloster
Examines the role of nutrition in health, wellness, and prevention of chronic disease. Topics include nutrients and nutritional needs across the lifespan, food safety, food security, wellness, body weight regulation, eating disorders, sports nutrition, and prevention of chronic disease. May not be taken for credit if credit earned in NUTR 300.

NUTR 241 – Culinary Nutrition Science (3 credits) T 3:30-4:50pm Quiz Th, times vary Instructor: Anne-Marie Gloster
Explores scientific principles behind modern culinary techniques that transform raw foodstuffs into prepared foods that have sensory appeal. Hands-on kitchen demonstrations show how physical and chemical forces acting on solids, liquids, and gases transform raw ingredients into foods with desirable taste, texture, and aroma. Requires access to a full kitchen to complete assignments. Cannot be taken for credit if credit earned in NUTR 441. Prerequisite: NUTR 200.

NUTR 303 – Neighborhood Nutrition (3 credits) TTh 2:00-3:20
Instructor: Adam Drewnowski 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 farm-to-school programs. Prerequisite: NUTR 200.

Oceanography
http://www.washington.edu/students/timeschd/WIN2018/ocean.html

Ocean 102 – The Changing Oceans (5 credits)
Th 7:00-8:20pm
Quiz T/W, times vary
Instructor: Mikelle Nuwer
Hybrid course. All lectures online. All required quiz sections are in person. 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/WIN2018/phil.html

Phil 120 – Intro to Logic (5 credits)
MWF 10:30-11:20
Quiz TTh, times vary
Instructor: Cass Weller
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.

Statistics
http://www.washington.edu/students/timeschd/WIN2018/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 9:30-10:20
Quiz TTh, times vary
Instructor: TBA
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: TBA
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.

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