NW COURSES

Autumn Quarter 2020 NW courses

Class times, locations, fees, and course descriptions may change. Check the time schedule for updates BEFORE enrolling in any course.

For more NW courses, see the General Education Requirement search page at: http://www.washington.edu/students/timeschd/genedinq.html.

Astronomy
http://www.washington.edu/students/timeschd/AUT2020/astro.html

ASTR 101 – Astronomy (5 credits)
MWF 10:30 – 11:20
Quiz Th, times vary
Instructor: C. Laws
$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 301; not open to upper-division students majoring in physical sciences or engineering.

ASTR 102 – Intro to Astronomy (5 credits)
TTh 9:00-10:20
Quiz MW, times vary
Instructor: Scott Anderson
QSR credit
$10 course fee
Emphasis on mathematical and physical comprehension of nature, the sun, stars, galaxies, and cosmology. Designed for students who have had algebra and trigonometry and high school or introductory-level college physics. Cannot be taken for credit in combination with ASTR 101 or ASTR 301.

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 11:30 – 12:50
Quiz M, times vary
Instructor: Toby Smith
$10 course fee
QSR credit
For liberal arts and beginning science students. Survey of the planets of the solar system, with emphasis on recent space exploration of the planets and on the comparative evolution of the Earth and the other planets.

Atmospheric Sciences
http://www.washington.edu/students/timeschd/AUT2020/atmos.html
ATM S 101 – Weather (5 credits)
MTWTh 9:30 – 10:20
Quiz F, times vary
Instructor: Ciff 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 nonmajors.

ATM S 111 – Global Warming: Understanding the Issues (5 credits)
MTWTh 10:30 – 11:20
Quiz F, times vary
Instructor: Dargan Frierson
Presents a broad overview of the science of global warming. Includes the causes, evidence, and societal and environmental impacts from the last century. Recounts future climate projections and societal decisions that influence greenhouse gas emission scenarios and our ability to adapt to climate change. Presents ways to identify disinformation versus correct science.

ATM S 211 – Climate Change (5 credits)
MTWTh 12:30-1:20
Quiz Th/F, times vary
Instructor: K. Huybers

ATM S 220 – Exploring the Atmospheric Sciences (1 credit)
Th 12:30-1:20
Instructor: TBA
Cr/NC grading only
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/AUT2020/bioanth.html

Bio A 100 – Evolution and Human Behavior (5 credits)
MWF 1:00-2:20
Quiz T, times vary
Instructor: Alex Hill
Introduction to evolution by natural selection, examining the light it can throw on human biology and behavior in such areas as the nature of sex differences, sexual conflict, and conflict between

Epidemiology
http://www.washington.edu/students/timeschd/AUT2020/epidem.html

EPI 220 – STIs: Cause and Consequences (5 credits)
TTh 3:00-4:20
Quiz F, times vary
Instructor: L. Manhart
Examines the causes and consequences of sexually transmitted infections (STI). Discusses strategies to prevent STI with a focus on sexual and reproductive health. Explores new advances in STI epidemiology, treatment, and public health control.

EPI 221 – Maternal and Child Health: A Population Health Approach (5 credits)
MW 1:00-2:20
Quiz F, times vary
Instructor: Daniel Enquobahrie
Provides a public health perspective of maternal and child health. Includes information on indicators of maternal, infant, and child health; risk factors for pregnancy complications, infant and child morbidity and mortality; and impact of maternal and child health on life course disease risk.
ESS 101 - Intro to Geology and Societal Impacts (5 credits)
MWF 12:30-1:20
Lab M/T/W/Th, times vary
Instructor: T. Swanson
$30 course fee required.
Introduction to the processes, materials and structures that shape Earth. Emphasizes the dynamic nature of the earth's tectonic system and its relationship to physical features, volcanism, earthquakes, minerals and rocks and geologic structures. The course emphasizes the intrinsic relationship between human societies and geologic processes, hazards and resources. Not open for credit to students who have taken ESS 210. Optional field trips. No prerequisite classes required.

ESS 102A – Space and Space Travel (5 credits)
MWF 11:30-12:20
Lab TTh, times vary
Instructor: Baptiste Journaux
$20 course fee
Open to all majors; writing credit section (see schedule 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 2:30-3:20
Instructor: M. 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 230 – Rivers and Beaches (3 credits)
TTh 10:00-11:20
Quiz TTh, times vary
Instructor: D. Montgomery
$30 course fee required
Note: field trip note may be done through a virtual format. CHECK time schedule for notes.
Introduction to Earth surface environments, the processes that shape them, how humans affect them and are affected by them. Field trips examine mountains, rivers, deltas/estuaries, beaches, and environments beyond. Focuses on linkages between these environments to illustrate coupling between landscapes and seascapes. Offered jointly with OCEAN 230.

Envir 100 –Environmental Studies: Interdisciplinary Foundations (5 credits)
MWF 9:30-10:20
Quiz T/Th, times vary
Instructor: Eli Wheat and Yen-Chu Weng
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 (5 credits)
MW 12:30-1:20
Quiz F, times vary
Instructor: K. Straus
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 Health
http://www.washington.edu/students/timeschd/AUT2020/envh.html

ENV H 311 – Intro to Environmental Health (3 credits)
MWF 10:30-11:20
Instructor: T. Busch Isaksen
Relationship of people to their environment, how it affects their physical well-being and what they can do to influence the quality of the environment and to enhance the protection of their health. Emphasis on environmental factors involved in transmission of communicable diseases and hazards due to exposure to chemical and physical materials in our environment.

Environmental Science and Resource Management
http://www.washington.edu/students/timeschd/AUT2020/esrm.html

ESRM 101 – Forests and Society (5 credits)
MTWThF 12:30-1:20
Instructor: K. Vogt
$5 course fee required; see Time Schedule for note on top hat monocle.
Survey course covering forest ecosystems of the world, history of forestry and forest conservation, how forest ecosystems function, wildlife in forests, environmental issues in forestry, forest management, economics and products, and new approaches to forest management. Cannot be taken for credit if CFR 101 already taken. Open to majors and nonmajors.

ESRM 150 – Wildlife in the Modern World (5 credits)
MWF 1:30-2:20
Quiz M/W/Th/F, times vary
Instructor: L. Prugh
Covers major wildlife conservation issues in North America. Some global issues are also treated. Examples of topics include the conservation of large predators, effects of toxic chemicals on wildlife, old-growth wildlife, conservation of marine wildlife, recovery of the bald eagle, and gray wolf.

ESRM 465 – Economics of Conservation (3 credits)
MW 11:30-12:50
Instructor: S. Rabotyagov
Economic principles and their use in the analysis of contemporary conservation problems. Particular emphasis directed toward the conservation of forest resources in the Pacific Northwest and related policy issues.

Fisheries
https://www.washington.edu/students/timeschd/AUT2020/fish.html

Fish 250B – Marine Biology (3 credits)
MWF 9:30-10:20
Instructor: J. Guzman
Lecture-laboratory course in marine biology focusing on physical, biological, and social aspects of the marine environment. Topics include oceanography, ecology, physiology, behavior, conservation, fisheries, exploration, and activism. Weekend field trip. Honors section research project. Offered jointly with BIOL 250/OCEAN 250

Informatics
http://www.washington.edu/students/timeschd/AUT2020/info.html

Info 101 – Social Networking (5 credits)
F 1:30-2:20
Quiz MW/TTh, times vary
Instructor: Bob Boiko
Optional writing credit.
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.

Nutritional Science
http://www.washington.edu/students/timeschd/AUT2020/nutrit.html

NUTR 200 – Nutrition (4 credits)
MWF 11:30-12:20
Quiz M/T/W/F, times vary
Instructor: E. Kirk
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 302 – Food Systems I: Harvest to Health (5 credits)
MW 11:30-12:50
Quiz F, times vary
Instructor: J. Otten
Open to all majors on June 22nd.
Examines the many facets of the modern food supply from production and processing to distribution, marketing, and retail. Systems approach to foods studies considers geopolitical, agricultural, environmental, social, and economic factors along the pathway from harvest to health. **Prerequisite: NUTR 200.**

NUTR 390 - Food Seminar: Fermentation Sciences (1 credit)
Th 10:30-11:20
Instructor: A. 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.

NUTR 400 – Food Systems Seminar (1 credit)
T 12:30-1:20
Instructor: Y. Sipos
Examines emerging issues in food systems, nutrition, and health as they relate to personal and public health. Reviews evidence in the context of food systems and health policy. Credit/no-credit only.

Oceanography
https://www.washington.edu/students/timeschd/AUT2020/ocean.html

Ocean 101B – Oceanography of the Pacific Northwest (5 credits)
MTF 11:30-12:20
Quiz W/Th/F, times vary
Instructor: M. Nuwer
Introduces the fundamental principles of oceanography by focusing on the waters that surround us - the Washington coast and Puget Sound. Investigates the geologic history of the Pacific Northwest, and the physics, chemistry, and biology of coastal waters using case studies. Intended for nonmajors.

Philosophy
https://www.washington.edu/students/timeschd/AUT2020/phil.html

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

Psychology
http://www.washington.edu/students/timeschd/AUT2020/psych.html

Psych 202 – Biopsychology (5 credits)
MTWTh 8:30-9:20
Quiz F, times vary
Instructor: Adrian Andelin
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/AUT2020/stat.html

Stat 220 – Principles of Statistical Reasoning (5 credits)
MWF 8:30-9:20
Quiz TTh, times vary
Instructor: TBA
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 221, Stat 311, and Econ 311.**

Stat 221 – Statistical Concepts and Methods for the Social Sciences (5 credits)
MWF 11:30-12:20
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 221, Stat 311, and Econ 311.**