

Course Syllabus

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This course is offered jointly as EPI 571 A and ENV H 571 A (3cr graded)

Instructor: Walter A. Kukull, PhD, Professor (he/him)

Mon/Wed 1:00--2:20pm T-478 HSB and/or on Remote Zoom, prn.

Office hours: please email [kukull@uw.edu \(mailto:kukull@uw.edu\)](mailto:kukull@uw.edu) for appointment--zoom or in-person

Lectures and discussion will be hosted by principal instructor and expert guest lecturers. These sessions will address background and current understanding of various neurological diseases and conditions. (Current articles relevant to lectures will be posted several days in advance of the scheduled lecture. Also Powerpoint .pdf slides of lectures will usually be posted.) The Lecture schedule and lecturers are shown here: [Schedule 2022.pdf](#) ↓

A broader description of the course as well as specific accommodations are presented under the Canvas **Syllabus** heading.

Please go to "**Modules**" on Canvas to see individual lecture materials (e.g., powerpoint slides and any background article .pdf that are submitted by the lecturers. These will usually be posted a few days prior to the lecture itself, so most are empty at the beginning of the course.)

This course is designed to increase your knowledge of Neurologic diseases including their clinical syndromes and their etiologic bases. You are expected to have some basic knowledge of epidemiologic methods to apply to the content provided in the course, in order to propose future research.

The field and our understanding of Neurologic diseases is changing rapidly thus most of the content presented by lecturers will be supported by their best compilation of current articles (posted as .pdf in the course "Modules" on canvas. The current articles posted in the modules should be your primary source reference.

Recommended text (it is somewhat dated because the field changes fast; please look at it before you consider buying) : Nelson LM, Tanner CM, Van Den Eeden SK, McGuire VM (Eds): Neuroepidemiology: From Principles to Practice. Oxford University Press, 2004.

Please contact me if you wish to discuss any aspect of the course outside of class time. The easiest way to do this is by email ([kukull@uw.edu \(mailto:kukull@uw.edu\)](mailto:kukull@uw.edu)) so that we can set a time to meet either on Zoom or my NACC (research) office (4311-11th Ave NE).

Active participation in class discussions (about the formulation of their own projects papers) as well as asking questions of expert lecturers are viewed as a necessary part of the learning experience; please

participate in such discussions to enhance everyone's understanding.

Project Paper: (see also "Assignments") Students are expected to choose a neurologic disease/condition topic (generally from among the content areas presented in the course) and based on lectures and review of current research literature, to construct a succinct (~5pp) paper describing (a) **relevant background to a current gap in knowledge** which they would propose to investigate; (b) **epidemiologic and clinical methods/considerations necessary for that investigation.**

Discussions in class of each student's potential Project topic will allow students to share their experience to make each others' papers better and sharpen their views. We can all benefit from each others clarifications and suggestions

The Paper will have four elements:

- 1) Determination of topic:** Critical but brief background leading you to identify the "knowledge gap" you propose to investigate? Why is it important to the field?
- 2) Interpretation:** What are the best/feasible study design and analytic methods? How would the potential findings contribute to the knowledge-base related to their research question?
- 3) Challenges and limitations:** Feasibility issues; what would be needed to do this; realistic possibility such a study could be done; potential collaborations to be sought?
- 4) Future Directions:** If your study was successfully carried out, what would be next steps? How might you expand, confirm or refute the findings of the previous proposed research topic?

A the end of the course **students will make brief 5-10 minute presentations of their chosen topic** to the class (e.g.,about 3 Powerpoint slides).

Paper will be due on or before---March 11, 2022.

Learning Objectives

- 1. To discuss Neurological diseases and conditions and to become acquainted with experts involved with such research at UW.
- 2. To determine applicability of core epidemiologic methods for the study of neurological conditions.
- 3. To examine current "state of the art" for selected conditions and the current research challenges or gaps in knowledge.
- 4. To become acquainted with commonly used techniques for the study of neurological conditions (e.g., neuroimaging, genomics, neuropathology)
- 5. To become familiar with of NIH grant process and "research plan" structure/content.

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COVID-related expectations

Per UW policy, this class will be conducted in person. Therefore, unless you meet the criteria for an accommodation from Disability Resources for Students (DRS) or a special arrangement approved by the SPH Office of the Dean that allows you to take the course remotely [[see student communications here](https://sph.washington.edu/sites/default/files/2021-08/UWSPH_RTC_Student-Email.pdf)] (https://sph.washington.edu/sites/default/files/2021-08/UWSPH_RTC_Student-Email.pdf) you should only register for this class if you can attend in-person.

- Please contact UW Disability Resources for Students (DRS) directly if you feel you may be eligible for an accommodation based on your status as an immunocompromised individual or based on other diagnosed physical or mental health conditions that might prevent you from being able to take classes in-person.
- If you are a student enrolled in a program in SPH, and you are either living with an individual who is immunocompromised, OR you are unable to obtain a visa to travel to the US, you may be eligible for a “special arrangement” that will allow you to take this course remotely. Requests for special arrangements to take the class remotely should have been submitted to and approved by the Students and Academic Services team in the Office of the Dean before the beginning of the quarter. If you have questions about this type of arrangement, please reach out to Student and Academic Services by email at sphas@uw.edu (<mailto:sphas@uw.edu>).

All UW students are expected to complete their [vaccine attestation](https://www.washington.edu/coronavirus/vaccination-requirement/) (<https://www.washington.edu/coronavirus/vaccination-requirement/>), before arriving on campus and to follow the campus-wide face-covering policy at all times. You are expected to follow state, local, and UW COVID-19 policies and recommendations. If you feel ill or exhibit possible COVID symptoms, you should not come to class. If you need to temporarily quarantine or isolate per CDC guidance and/or [campus policy](https://www.washington.edu/coronavirus/2021/08/31/autumn-quarter-health-and-safety-measures-message-to-uw-personnel/) (<https://www.washington.edu/coronavirus/2021/08/31/autumn-quarter-health-and-safety-measures-message-to-uw-personnel/>), you are responsible for notifying your instructors as soon as possible by email. **If you receive a positive COVID-19 test result, you must report to campus Environmental Health & Safety (EH&S) by emailing covidehc@uw.edu (<mailto:covidehc@uw.edu>) or calling 206-626-3344.**

No food or drinks are allowed in the classroom.

Please check your email daily BEFORE coming to class. If we need to conduct class remotely because the instructor or a guest speaker is complying with UW policies and unable to attend in person, we will send all registered students an email with a Zoom link for remote instruction. Thank you for your patience and support as we all transition together back to in-person learning!

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LAND ACKNOWLEDGEMENT:

“The University of Washington acknowledges the Coast Salish people of this land, the land which touches the shared waters of all tribes and bands within the Duwamish, Suquamish, Tulalip and

Muckleshoot nations."

Diverse backgrounds, embodiments and experiences are essential to the critical thinking endeavor at the heart of University education. In SPH, students are expected:

- 1. To respect individual differences, which may include, but are not limited to, age, cultural background, disability, ethnicity, family status, gender, immigration status, national origin, race, religion, sex, sexual orientation, socioeconomic status and veteran status.*
- 2. To engage respectfully in the discussion of diverse worldviews and ideologies embedded in course readings, presentations and artifacts, including those course materials that are at odds with personal beliefs and values.*
- 3. To encourage students with concerns about classroom climate to talk to their instructor, adviser, a member of the departmental or SPH EDI Committee, the Assistant Dean for EDI, or the program's director.*

Access and Accommodations:

Your experience in this class is important to me. If you have already established accommodations with Disability Resources for Students (DRS), please communicate your approved accommodations to me at your earliest convenience so we can discuss your needs in this course.

If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (conditions include but are not limited to mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206-543-8924 or uwdrs@uw.edu (<mailto:uwdrs@uw.edu>) or [disability.uw.edu](http://depts.washington.edu/uwdrs/) (<http://depts.washington.edu/uwdrs/>). DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions. Reasonable accommodations are established through an interactive process between you, your instructor(s) and DRS. It is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law.

Religious Accommodations: Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at [Religious Accommodations Policy](https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/) (<https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/>) (<https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/>). Accommodations must be requested within the first two weeks of this course using the [Religious Accommodations Request form](https://registrar.washington.edu/students/religious-accommodations-request/) (<https://registrar.washington.edu/students/religious-accommodations-request/>) (<https://registrar.washington.edu/students/religious-accommodations-request/>).

Bias Concerns: The Office of the Dean has a [student concern policy](https://sph.washington.edu/students/student-concern-policy/) (<https://sph.washington.edu/students/student-concern-policy/>), a faculty concern policy and standard HR procedures for staff concerns. Our 2018 climate survey states that most people in SPH do not report

bias incidents because they do not know where to go. Students are encouraged to report any incidents of bias to someone they feel comfortable with, including instructors, advisers or department staff. They can email [dcinfo@uw.edu \(mailto:dcinfo@uw.edu\)](mailto:dcinfo@uw.edu) for immediate follow up. Bias concerns can be anonymously and confidentially reported at this link <https://sph.washington.edu/about/diversity/bias-concerns> [_ \(https://sph.washington.edu/about/diversity/bias-concerns\)](https://sph.washington.edu/about/diversity/bias-concerns). Data is collected by the Assistant Dean for EDI and the Director of Program Operations for Student and Academic Services and tracked for resolution and areas are identified for further training.

Course Summary:

Date	Details	Due
Mon Jan 3, 2022	 ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2485625&include_contexts=course_1515847)	1pm to 2:30pm
Wed Jan 5, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2498080&include_contexts=course_1515847)	1pm to 2:30pm
Mon Jan 10, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2540181&include_contexts=course_1515847)	1pm to 2:30pm
Wed Jan 12, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2540238&include_contexts=course_1515847)	1pm to 2:30pm
Wed Jan 19, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2558746&include_contexts=course_1515847)	1pm to 2:30pm

Date	Details	Due
Mon Jan 24, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2584671&include_contexts=course_1515847)	1pm to 2:30pm
Wed Jan 26, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2592596&include_contexts=course_1515847)	1pm to 2:30pm
Mon Jan 31, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2604057&include_contexts=course_1515847)	1pm to 2:30pm
Mon Feb 14, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2630412&include_contexts=course_1515847)	1pm to 2:30pm
Wed Feb 16, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2633108&include_contexts=course_1515847)	1pm to 2:30pm
Wed Feb 23, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2635109&include_contexts=course_1515847)	1pm to 2:30pm
Mon Feb 28, 2022	 EPI 571A / ENV H 571 A Wi 22: Neuroepidemiology And Environmental Risk Factors (https://canvas.uw.edu/calendar?event_id=2635124&include_contexts=course_1515847)	1pm to 2:30pm
Wed Mar 9, 2022	 Presentation (Mar 2-9) in Class (https://canvas.uw.edu/courses/1515847/assignments/6969443)	due by 2:30pm

Date	Details	Due
Fri Mar 11, 2022	 Project Paper (https://canvas.uw.edu/courses/1515847/assignments/6969444)	due by 3pm
	 Class participation (https://canvas.uw.edu/courses/1515847/assignments/6969442) (EPI 571 A)	
	 Class participation (https://canvas.uw.edu/courses/1515847/assignments/6969442) (ENV H 571 A)	