

From: noreply@wsu.edu
To: [curriculum.submit](#)
Subject: 140 528780 Environment Requirements Revise - Extend Undergraduate/Professional Certificate to Another Campus
Date: Thursday, September 26, 2019 12:32:39 PM
Attachments: [2019.09.26.12.32.34.45.FormData.html](#)
[2019.09.26.12.32.33.82.currentCatalogFile Water Resources Science and Management Certif.docx](#)
[2019.09.26.12.32.33.82.currentCatalogFile1 Vancouver History Program Leader support.pdf](#)

Michael Berger has submitted a request for a major curricular change. His/her email address is: msberger@wsu.edu.

Requested change: Extend Undergraduate/Professional Certificate to Another Campus

Title: Other

Requested Effective Date: Fall 2020

Campus: Vancouver,

Dean: Rodriguez-Vivaldi, Ana Maria - Assoc Dean - CAS,

Chair: Keller, Kent,

Streamlined

Catalog Subcommittee
Approval Date

AAC, PHSC, or GSC
Approval Date

Faculty Senate
Approval Date

Extending Undergraduate Water Resources Science and Management certificate to WSU Vancouver

Revise requirements box: No revisions to certificate requirements

Rationale statement: The School of the Environment (SOE) requests the extension of the Water Resources Science and Management certificate to the Vancouver campus. The certificate is already offered on the Pullman campus. With approximately 80 Environmental and Ecosystem Sciences degree seeking students on the Vancouver campus, we believe this certificate will provide undergraduate students with a unique interdisciplinary perspective of aquatic freshwater science and a discipline specific experimental component that could enhance their career based skills. Based on expressed interest to the Academic Coordinator, we estimate approximately 5 - 10 students in the first year will petition for this certificate. Six faculty in the School of the Environment (SOE) on the Vancouver campus have expertise that aligns with this certificate.

At least two courses per certificate cluster are regularly offered on the Vancouver campus. The Water Research Center has indicated that they are willing to support Vancouver campus students by providing videoconference access to the required Water Meeting and Social and the Water Research Center Invited Lecture Event. Additional experiential activities can be approved by the Vancouver Water Resources Science and Management liaison (Vancouver Academic Coordinator or Vancouver SOE Program Leader).

This certificate would provide a potential mechanism of enrollment growth in SOE courses on the Vancouver campus. Extending this certificate to the Vancouver campus has no negative impact to departments or colleges on any of WSU's campuses. The Vancouver History Program Leader has reviewed this proposal and approves of the inclusion of History 422 as an appropriate course to list. There is also no new cost involved.

Catalog description:

Water Resources Science and Management

The Certificate in Water Resources Science and Management, administered by the School of the Environment, is an interdisciplinary certificate for students interested in water resources. The certificate includes 15 credits and an experiential requirement. Students must complete a minimum of one course from each of four water cluster areas listed below. Courses listed under more than one cluster area will not count toward two cluster areas simultaneously. Note that listed courses may require prerequisites. To ensure an interdisciplinary experience, selected courses must represent two or more different subject areas. A final grade of "C" or better is required for each course applied to the certificate and a cumulative GPA of 3.0 or better is required for the certificate program as a whole.

1. **Subsurface and Surface Hydrology:** CE 351, 402, 460, SOE 250, 303, 315, 463, SOE/CE 475, SOIL SCI 414;
2. **Water Chemistry/Ecology/Biology:** AGTM 315, BIOLOGY 390, 465, 469, BSYSE 554, CE 341, 418, SOE 275, 300, 411, 412, 417, 454, 463, 464, 465, 492;
3. **Water Methods & Analysis:** CE 315, 341, 351, 415, 416, 418, 419, 442, 450, 451, SOE 311, SOIL SCI 468;
4. **Water Policy & Management:** CE 405, 456, CROP SCI 360, ECONS 330, 430, 431, HISTORY 422, SOC 331, 332, SOE 438, 444, 461;

Experiential Requirement: In addition to the course requirements described above, the certificate also includes an experiential requirement of required attendance at a minimum of three water-related activities hosted by the certificate program. Participants in the program are required to attend Water Meeting and Social and Water Research Center Invited Lecture Event, both of which are conducted every Fall and Spring semester. Additional activities that may fulfill the Experiential Requirement include: field trips, documentary film screenings with discussion, and water-related internships. These additional activities require committee approval and/or competitive application.

Courses that will be offered on the Vancouver campus:

Cluster 1. Subsurface and Surface Hydrology: SOE 250 (Spring) and SOE 315 (Spring odd years and Global campus)

Cluster 2. Water Chemistry/Ecology/Biology: Biol 469 (Fall odd years), SOE 411 (Fall and Spring), SOE 412 (Fall even), SOE 454 (Fall)

Cluster 3. Water Methods & Analysis: SOE 311 (Fall even years), Soil Sci 468 (Fall)

Cluster 4. Water Policy & Management: History 422 (Spring), SOE 444 (Fall), SOE 461 (Spring odd years)

Experiential requirement:

- Water meeting and social will be delivered to the Vancouver campus over Zoom
- Water Research Center Invited lecture will be delivered over Zoom
- Freshwater seminars and lectures in Vancouver will be advertised through the Water Research Center
- Experiential tracking spreadsheet has been shared with Vancouver Academic Coordinator and Vancouver SOE Program Leader