From:	noreply@wsu.edu	
To:	<u>curriculum.submit</u>	
Subject:	128 467373 Environment Requirements Revise - Revise or Drop Graduate Plan	
Date:	Thursday, September 27, 2018 9:57:34 AM	
Attachments:	2018.09.27.09.57.30.12.FormData.html	
	2018.09.27.09.57.29.12.currentCatalogFile Requirement Change MS ES Vancouver NonthesisOption.pdf	

Alecia Hoene has submitted a request for a major curricular change. His/her email address is: alecia.hoene@wsu.edu.

Requested change: Revise or Drop Graduate Plan

Degree: M.S. Environmental Science

Title: Non-Thesis [CSC Note: Change requested is for MS in ES WSU-Vancouver]

Requested Effective Date: Fall 2019

Revise plan requirement: Yes

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

Chair: Keller, Kent,

Catalog Subcommittee	AAC, PHSC, or GSC	Faculty Senate
Approval Date	Approval Date	Approval Date

Yes, please move forward, and thanks for following up with me. -Kent.

On Oct 4, 2018, at 7:49 AM, curriculum.submit <<u>curriculum.submit@wsu.edu</u>> wrote:

Kent,

I don't see that I've received a response from you on this submission. OK to move forward?

Suzanne

Suzanne Lambeth, Assistant Registrar Graduations, Curriculum, and Scheduling

This communication may contain privileged, non-public or other confidential information. If you have received it in error, please advise the sender by reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

From: noreply@wsu.edu <noreply@wsu.edu>
Sent: Thursday, September 27, 2018 9:58 AM
To: curriculum.submit <curriculum.submit@wsu.edu>
Subject: 467373 Environment Requirements Revise - Revise or Drop Graduate Plan

Alecia Hoene has submitted a request for a major curricular change. His/her email address is: <u>alecia.hoene@wsu.edu</u>.

Requested change: Revise or Drop Graduate Plan

Degree: M.S. Environmental Science

Title: Non-Thesis

Requested Effective Date: Fall 2019

Revise plan requirement: Yes

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

Chair: Keller, Kent,

Catalog Subcommittee Approval Date

AAC, PHSC, or GSC Approval Date

Faculty Senate Approval Date

<2018.09.27.09.57.29.12.currentCatalogFile_Requirement_Change_MS_ES_Vancouver_NonthesisOption.pdf>

C. Kent Keller Professor and Director School of the Environment <u>ckkeller@wsu.edu</u> https://environment.wsu.edu/people/faculty/ 1.509.335.6227 Webster 1226

It is safer to have a whole people respectably enlightened than a few in a high state of science and the many in ignorance. -T. Jefferson I approve this proposal in its current form.

Ana María Rodríguez-Vivaldi

From: curriculum.submit@wsu.edu [mailto:curriculum.submit@wsu.edu]
Sent: Thursday, September 27, 2018 9:58 AM
To: Keller, Kent <ckkeller@wsu.edu>; Rodriguez-Vivaldi, Ana Maria <amrodriguez@wsu.edu>
Subject: 467373 Environment Requirements Revise - Revise or Drop Graduate Plan

Keller, Kent,

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

Alecia Hoene has submitted a request for a major curricular change.

Requested change: Revise or Drop Graduate Plan

Degree: M.S. Environmental Science

Title: Non-Thesis

Requested Effective Date: Fall 2019

Revise plan requirement: Yes

Both Chair and Dean approval is required to complete the submission process. Please indicate that you have reviewed the proposal by highlighting one of the statements below and **reply all** to this email. (<u>curriculum.submit@wsu.edu</u>.) [Details of major change requested can be found in the attached supplemental documentation]

- 1. I approve this proposal in its current form.
- 2. I approve this proposal with revisions. Revisions are attached.
- 3. I do not approve this proposal. Please return to submitter.

If you do not respond within one week, you will be sent a reminder email. If no response is received within three weeks of the submission date, the proposal will be returned to the submitter.

#128 revised rec'd 10-24-18

Current and Proposed Requirements for Master of Science in Environmental Sciences Offered at WSU Vancouver: Non-Thesis Option

As requested, degree requirements that would be eliminated under the proposed revisions are marked with strikethrough, and new requirements are underlined. Requirements without strikethrough or underlining are unchanged.

Most of the changes below are identical to those outlined in the corresponding Thesis Option degree revisions. Boxes have been used to highlight those changes that differ from the thesis option.

Ungraded Credits

SOE 501 Graduate Skills Seminar course: 1 credit.

<u>SOE 598 Research Seminar in Environmental Sciences:</u> 2 credits (i.e. 2 semesters, at 1 credit per semester).

SOE 700 Thesis: 4 credits At least 2 credits must be in the semester of the final exam. All full-time students must take at least 1 credit of SOE 700 during every semester they are enrolled in the degree.

Graded Credits:

Advanced Special topics: 2 credits

Advanced special topics: 2 credits of advanced SOE special topics coursework. (Current options for special topics are SOE 592 Advanced Topics in Environmental and Natural Resources Sciences and SOE 597 Advanced Topics in Geology)

544 Environmental Assessment: 4 credits Policy/Society/Management Courses: 3 credits. This requirement could be met by 544 Environmental Assessment, or by other courses in Policy, Society, or Management.

Quantitative skills: 3 credits <u>This requirement could be met by courses in mathematics, statistics (e.g. STAT 519, 523), or</u> <u>other highly quantitative courses.</u>

Applied Biological, Physical, or Social Science area: 3 credits In the past, the was usually met by one of GEOL 516, GEOL 565, ENVR_SCI 577, ENVR_SCI 586, POL S 430 Ecology: 3 credits In the past, this was usually met by one of BIOL 562, 568, 569

Area of Specialization: 11 credits

Other Graded Coursework: 18 credits

There are 24 total credits included in the above "Policy/Society/Management", "Quantitative", and "Other" groupings. *Of these 24*, at least 6 must be SOE credits.

Total Graded coursework: 26 credits minimum

Total Credits: 32 33

No-more than 6 hours of non-graduate 300 or 400-level courses may be included.

Course List for proposed revised MS ES requirements

This document lists courses that might satisfy proposed revised requirements for the MS ES offered at WSU Vancouver. Not all these courses are currently available in Vancouver.

List of graduate courses currently satisfying Policy/Society/Management requirement:

SOE 544 Environmental Assessment, SOE 535 Water Resources Science and Management, SOE 540 540 Agroecology, SOE 545 Hazardous Waste Management, SOE 594 Environmental and Natural Resources Issues and Ethics, POL_S 544 The Politics of Policy Process.

List of graduate courses currently satisfying Quantitative skills requirement:

STAT 508 Environmental Spatial Statistics STAT 510 Topics in Probability and Statistics

STAT 511 Statistical Methods for Graduate Researchers

STAT 512 Analysis of Variance of Designed Experiments

STAT 516 Time Series

STAT 519 Applied Multivariate Analysis

STAT 520 Statistical Analysis of Qualitative Data

STAT 523 Statistical Methods for Engineers and Scientists

STAT 535 Regression Analysis STAT 544 Applied Stochastic Processes MECH 521 Fundamentals of Fluids I MECH 523 Computational Fluid Dynamics and Heat Transfer MECH 532 Finite Elements

List of graduate courses satisfying 6-SOE-credit requirement

- 505 Geodynamics
- 510 Species Distribution Modeling
- 512 [M] Global Biogeochemistry
- 516 Soil Processes in the Earth's Critical Zone
- 520 Radiation Instrumentation
- 521 Uses and Regulation of Radiation
- 524 Advanced Topics in Sedimentology
- 531 Fundamentals of Environmental Toxicology
- 532 Applied Environmental Toxicology
- 535 Integrated Water Resources Science and Management
- 540 Agroecology
- 541 Orogenic Systems
- 542 Extensional Tectonics
- 544 Environmental Assessment
- 545 Hazardous Waste Management
- 548 Applied Spatial Ecology
- 555 System Dynamics Models of Environmental Systems
- 556 Foraging Ecology of Herbivores
- 560 Advanced Igneous Petrology
- 562 Watershed Biogeochemistry
- 577 Advanced Environmental Hydrology
- 583 Radiogenic Isotopes and Geochronology
- 584 Stable Isotope Geochemistry
- 594 Environmental and Natural Resources Issues and Ethics