

Submit originals and one copy and electronic copy to Governance/Faculty Senate Office (email electronic copy to [jbharvie@alaska.edu](mailto:jbharvie@alaska.edu))

FORMAT 5

The graduate program in environmental chemistry provides advanced training in the concepts and methods of molecular environmental sciences. The M.S. degree prepares students for careers in the environmental sciences.

**C. PROPOSED REQUIREMENTS AS IT WILL APPEAR IN THE CATALOG WITH THESE CHANGES:**

**(Underline new wording ~~strike through old wording~~ and use complete catalog format )**

~~CHEM F655 Environmental Toxicology 3 credits~~

~~Complete two seminar courses~~

~~CHEM F691 Research Presentation Techniques 1 credit~~

~~CHEM F692 Seminar 1~~

~~Complete approved electives\* 3 - 6 credits~~

~~Complete a thesis 12 credits~~

~~Minimum credits required 30 credits~~

~~Graduate Program -- Ph.D. Degree~~

Complete the general university requirements.

Complete the Ph.D. degree requirements.

Complete three of the following core courses:

CHEM F605--Aquatic Chemistry--3 credits

CHEM F606--Atmospheric Chemistry--3 credits

CHEM F631--Environmental Fate and Transport--3 credits

CHEM F655--Environmental Toxicology--3 credits

Complete two seminar courses.

CHEM F691--Research Presentation Techniques--1 credit

CHEM F692--Seminar 1

Complete approved electives\*--3 - 6 credits

Complete a thesis--18 credits

Minimum credits required--32 credits

*\* Approved electives (both M.S. and Ph.D.) are specified by the student's committee. The following tracks are defined as a guide. Within these tracks students will be expected to complete as part of the core and electives:*

*Atmospheric Chemistry: CHEM F601, CHEM F605, CHEM F606 and CHEM F631*

*Aqueous/Environmental Geochemistry: CHEM F605, CHEM F606 or CHEM F631, GEOS F618 and CHEM F609/GEOS F633.*

*Environmental Toxicology and Contaminant Fate: CHEM F605 or CHEM F606, CHEM F631 and CHEM F655*

*A customized focus area may be developed based on an appropriate sequence of core and elective courses, subject to approval by the student's advisory committee.*

See Biochemistry and Neuroscience Molecular Biology

...and research conditions (parts 1 and 2) are different between each concentration, but we can assess the success of each concentration and adjust its requirements to assure that these general learning

10/15/20

10/15/20

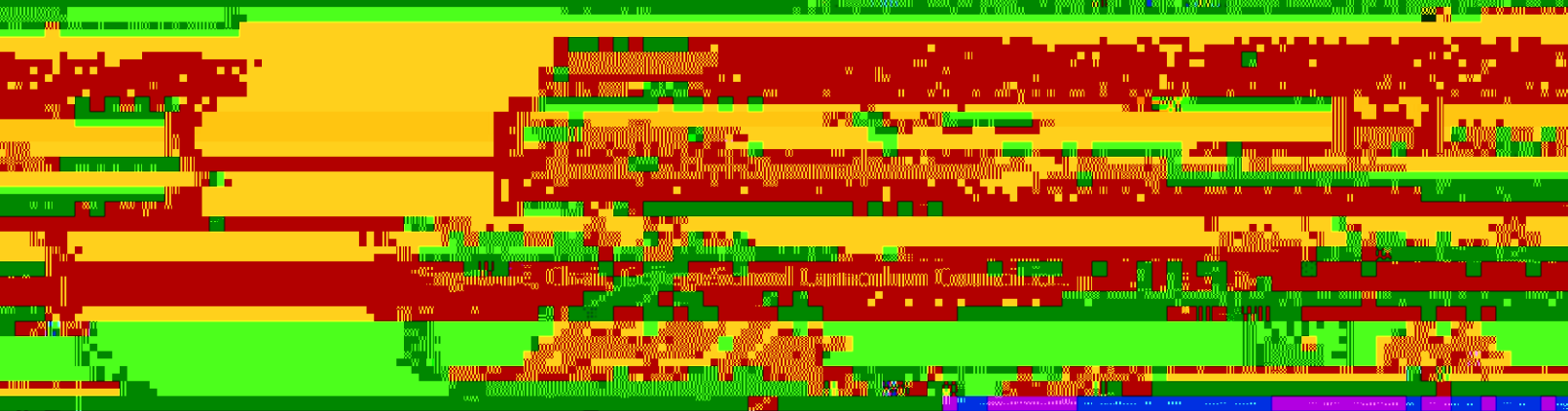
...with similar procedures for all concentrations, and will allow for better assessment of student learning outcomes than

...with similar procedures for all concentrations, and will allow for better assessment of student learning outcomes than

...with similar procedures for all concentrations, and will allow for better assessment of student learning outcomes than

...with similar procedures for all concentrations, and will allow for better assessment of student learning outcomes than

...with similar procedures for all concentrations, and will allow for better assessment of student learning outcomes than



ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION

Signature, Chair, IAE Faculty Senate Curriculum Review	Date
--	------