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	student learning. This course is intended for graduate students in the sciences who have an interest in improving their teaching skills. The course format will be a mixture of discussion, workshops and seminars. If the course is every probled, priority will be given to teaching excitates to be consistent to teach in a mixture of discussion.
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17. PREVIOUS HIS Has the cours Yes/No	TORY e been offered as special topic	cs or trial course previously?	Yes	
If yes, give ser	nester, year, course #, etc.:	This course was co-taught b	93: Spring 2010 and Spring 201 by 6 instructors when it was first Spring 2011 instructors Kind and	
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This course will have minimal impact on budget and facilities. Instructors Kind and Fowell have included this as a regular part of their respective workloads. Few materials are required, and a room is required for only one evening per week, for 2 hours. Virtually any room that will accommodate group discussions for up to 20 students can be used.

19. LIBRARY COLLECTIONS

Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.



The articles we are using are available through the library's website. We are sure of this, based on the Spring 2011 trial course.

20. IMPACTS ON PROGRAMS/DEPTS

Yes

What programs/departments will be affected by this proposed action?

Mel A. Labourt	Date	29 500 2011
Signature, Chair, Program/Department of: Biolog	y + Wildlife	······································
	Date	5 Oct 2011
Signature, Chair, Colloge/School Cupriculum Council for:		
		a.t.a.
Signature, Dean, College/School of:	Date 194	Oct 5, 20 A
	Date	
Signature of Provost (if applicable) Offerings above the level of approved programs must be	e approved in advance b	y the Provost.
ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUB	MISSION TO THE GOV	RNANCE OFFICE
	Date	······
e, Chair, UAF Faculty Senate Curriculum Review Committee	• •	
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Signature, Chair, College/School Curriculum Council for	Date	
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	Date	
Signature, Dean, College/School of:		
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Biology 679 / Chemistry 679 / Geosciences 679 Scientific Teaching

Instructors:

Denise Kind PhD, Biology and Wildlife Email: dmkind@alaska.edu Office: 309 Bunnell Office phone: 474-6298 Office hours: By appointment Sarah Fowell PhD, Geology and Geophysics Email: sjfowell@alaska.edu Office: 326 REIC Office phone: 474-7810 Office hours: M 11:30-1:30, W 1:00-3:00

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Meeting Time and Location: 308 Bunnell, Monday, 6:00-8:00 pm

Course Materials:

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3. Construct and maintain a *learner-centered classroom*.

4. Draft a *teaching philosophy* that reflects understanding of current educational research and how students learn. Such philosophies are a standard part of a college or university faculty application.

amore and a variation of 1 1.8 assessment tools is crucial for positions that involve aspects of teaching and curriculum design. **Course Goals** to help students and instructors improve their ability to teach both course content and the •

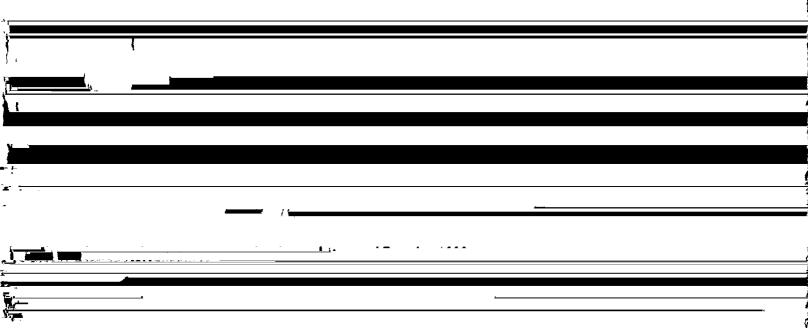
analytical skills undergraduates need to carry out inquiry-based science

to familiarize students with the best teaching practices, as established by research

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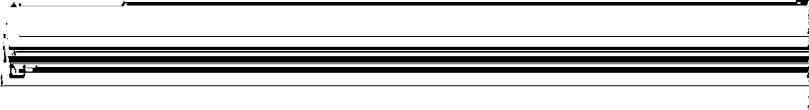
Schedule for BIOL 679 / CHEM 679 / GEOS 679: Scientific Teaching

Date	Торіс	Due at start of class
Jan. 23	How People Learn; What Active Learning Is (and Isn't)	Armbruster et al. 2009 Knight & Wood 2005 Ni General 2003
Jan. 30	Bloom's Taxonomy – How to help students develop	McConnell et al. 2003 Handelsman et al., Ch 1 & 3



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Mar. 26	Writing a Teaching Philosophy – what a teaching philosophy is and how to write a great one	 O'Neal et al. 2007 sample teaching philosophies Revised teachable unit + activity
Apr. 2	Group Work I – Brainstorming, jigsaw exercises	 McConnell et al. 2005 Shimazoe & Aldrich 2010
	Peer evaluation of teaching philosophies	 Felder & Brent 2001 Draft of teaching philosophy
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Klymkowsky, M., and K. Garvin-Doxas. 2008. Recognizing student misconceptions through Ed's Tools and the Biology Concept Inventory. PLOS Biology 6(1):14-17.

Musante, S. 2009. You're teaching, but how do you know they're learning? BioScience 79(7):557.

Rocdiger III, H., and J. Karpicke. 2006. The power of testing memory: basic research and implications for educational practice. Perspectives on Psychological Science 3:181-210.

Smith, M., W. Wood and J. Knight. 2008. The genetics concept assessment: A new concept inventory for gauging

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