FORMAT 1

Submit original with signatures + 1 copy + electronic copy to UAF Governance.

See http://www.uaf.edu/uafqov/faculty/cd for a complete description of the rules governing curriculum & course changes.

TRIA	L COURSE	OR	NEW	COURSE	PROPOSAL	

SUBMITTED BY:			
Department	Geology and Geophysics	College/School	CNSM
Prepared by	Michael Whalen	Phone	X5302
Email			

10.	COMPLETE CATALOG DESCRIPTION including dept., number, title and credits (50 words of less, if possible):
	GEOS 290, The Geology of Wine, 3 credits. This course explores the relationship between geology, climate, and viticulture. Aspects of geology that influence landscape, soil development and climate are evaluated in reference to their effects on wine-growing regions. The geology, tectonic setting, soil and climate of individual wine-growing areas will be explored through lectures, discussions, class projects/presentation, and lab wine tastings.
11.	COURSE CLASSIFICATIONS: (undergraduate courses only. Use approved criteria found on Page 10 & 17 of the manual. If justification is needed, attach on separate sheet.)
	H = Humanities S = Social Sciences
	Will this course be used to fulfill a requirement for the baccalaureate core?
	IF YES, check which core requirements it could be used to fulfill: O = Oral Intensive, Format 6 W = Writing Intensive, Format 7 Natural Science, Format 8
12.	COURSE REPEATABILITY: Is this course repeatable for credit? YES NO X
	redit? TIMES

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ATTACH COMPLETE SYLLABUS (as part of this application).

Note: The guidelines are online: http://www.uaf.edu/uafgov/faculty/cd/syllabus.html The department and campus wide curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course change will be denied.

SYLLABUS CHECKLIST FOR ALL UAF

WHIT, 474-5655) to provide reasonable accommodation to students with disabilities." $\,$

GEOS 190 – The Geology of Wine (2 credits) -- Spring 2012

Instructor:

Student Learning Outcomes

Students will be required to develop a general understanding of geology including the basics of plate tectonics, rocks and minerals, the relationship between geology and climate, soil development, sedimentary environments and the influence of all on wine growing regions. In addition students will explore the geologic setting of specific regions as part of individual research in preparation for in-class presentations. The lab portion of the course is intended to assist students in developing an understanding of the influence of changing geology, climate, and soils on wine growing and thus the flavor profile of wines from specific regions.

Schedule

Date	Topic	Required Reading
W Jan. 25	Introduction: Plate Tectonics, and Viticultural Regions	Monroe & Wicander, 2010, Ch. 2
W Feb. 1	Lab 1: Tasting the influence of geology on wine	Huggett, 2005
W Feb. 8	Rocks & Minerals	Monroe & Wicander, 2010, Ch. 3
W Feb. 15	Climate, Weathering, and Soils	Monroe & Wicander, 2010, Ch. 6 p. 132-147
	Lab 2: Tasting the Influence of geology and climate on Wine	Van Leeuwen et al., 2004
W Feb. 22	Sedimentary Environments and Vineyards	Wicander & Monroe, 2010, Ch. 6, p. 147-160 Swinchatt & Howell, 2004, p. 73-104
W Feb. 29	Geology and Climate: Fundamentals of Terroir	Swinchatt & Howell, 2004, p. 105-123
W Mar. 7	Spring Break	
	Lab 3: Classic varietals	

Course Policies

Attendance is mandatory but absences with a reasonable medical or other excuse will be excused. Students should arrive on time and participate in class discussions. Students are required to adhere to the UAF Student Code of Conduct.

Huggett, J.M., 2005, Geology and Wine: A Review, Proceedings of the Geologists Association, v, 117, p. 239-247.

Monroe, J.S., and Wicander, R., 2009, The Changing Earth: Exploring Geology and Evolution, Brooks/Cole Cengage Learning, 720 p.

Swinchatt, J., and Howell, D.G., 2004, The Wine Makers Dance: Exploring Terroir in the Napa Valley, University of California Press, Berkeley, CA, 229 p.

van Leeuwen, C., Friant, P., Choné, X., Tregoat, O., Koundouras, S., and Dubourdieu, D., 2004, Influence of Climate, Soil, and Cultivar on Terroir, American Journal of Eonology and Viticulture, v. 55, p. 207-217.

MacNeil, K., 2001, The Wine Bible, Workman Publishing Company, New York, NY, 910 p.

Wilson, J.E., 1998, Terroir: The Role of Geology, Climate, and Culture in the Making of Wine, University of California Press, Berkeley, CA, 336 p.