3-3-2009

Geology Course Proposal 03/11/09

Curriculum Committee

Electronic Course Authorization System (ECAS)
GEOL 3006 - VIEW COURSE PROPOSAL

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Approvals Received:	Department on 03-11-09 by Jeri Squier (squierj@umn.edu)
Approvals Pending:	**Curriculum Committee** > Campus Assembly > Catalog
Effective Status:	Active
Effective Term:	1093 - Spring 2009
Course:	GEOL 3006
Institution:	UMNMO - Morris
Career:	UGRD
College:	MDSM - Division of Science and Mathematics
Department:	10565 - UMM-Sci & Math, Div of-Adm

General

Course Title Short:	X-ray Diffraction Techniques
Course Title Long:	X-ray Diffraction Techniques for the Identification of Clay Minerals in Geologic Environments
Max-Min Credits for Course:	2.0 to 2.0 credit(s)
Catalog Description:	Introduction to clay mineralogy, discussion of the significance of clay minerals in physiochemical and biological processes that occur in terrestrial and marine environments, and the application of X-ray diffraction in the identification and analysis of clays in different geologic environments.
Additional Course Information (for catalog production):	**New:** <no text provided> **Old:** half semester course
Grading Basis:	Stdnt Opt
Honors Course:	No
Delivery Mode(s):	Classroom
Years most frequently offered:	Other frequency
Term(s) most frequently offered:	Spring
Component 1:	LEC (no final exam)
Component 2:	LAB (no final exam)
Auto-Enroll Course:	Yes
Graded Component:	LAB
Academic Progress Units:	Not allowed to bypass limits. 2.0 credit(s)
Financial Aid Progress Units:	Not allowed to bypass limits. 2.0 credit(s)

Repetition of Course:	Repetition not allowed.
Course Prerequisites for Catalog:	1101
Course Equivalency:	No course equivalencies
Consent Requirement:	No required consent
Enforced Prerequisites: (course-based or non-course-based)	No prerequisites
Editor Comments:	11.17.08 - Edited for PSoft. jls 11.18.08 - Edited for catalog NEH.
Proposal Changes:	<no text provided>
History Information:	11.18.08 - Received provisional approval. jls
Assessment and Goals:	<no text provided>
Rationale for Changes or Exceptions:	DESPITE THEIR IMPORTANCE IN PHYSIOCHEMICAL AND BIOLOGICAL PROCESSES THAT OCCUR IN DIVERSE GEOLOGIC ENVIRONMENTS, CLAY MINERALS RECEIVE LITTLE ATTENTION IN EXISTING COURSES (E.G., MINERALOGY AND CRYSTALLOGRAPHY). THE INTRODUCTION OF XRD-BASED CLAY MINERALOGY COURSE WILL NOT ONLY PROVIDE STUDENTS WITH A BETTER UNDERSTANDING THE STRUCTURE AND CHEMISTRY OF THE CLAY MINERALS, BUT WILL ALLOW THEM TO APPRECIATE THE IMPORTANCE OF CLAYS IN GEOLOGICAL PROCESSES AND IN THE INTERPRETATION OF GEOLOGIC DEPOSITS. INCORPORATION OF XRD METHODOLOGIES WILL ALSO INTRODUCE STUDENTS TO A STANDARD ANALYTICAL TECHNIQUE USED IN THE GEOSCIENCES. NO GER: DOES NOT FIT THE SPIRIT OF ANY GENEDS. COURSE DEVELOPS TECHNICAL SKILLS. FYI: THIS IS A HALF-SEMESTER COURSE.

General Education

Faculty Sponsor Name:	Keith Brugger
Requirement this course fulfills:	

Provisional Approval:	Requested on Nov 18, 2008
Regular Approval:	Requested on Nov 18, 2008

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