

The Ohio State University Colleges of the Arts and Sciences New Course Request

School of Earth Sciences

Academic Unit

GEOL SCI

Book 3 Listing (e.g., Portuguese)

622 Stable Isotope Biogeochemistry

Number	Title	UG	05
Isotope Biogeochem		Level	Credit Hours
18-Character Title Abbreviation			
Summer	Autumn	Winter	Spring X
Year 2006			

Proposed effective date, choose one quarter and put an "X" after it; and fill in the year. See the OAA curriculum manual for deadlines.

A. Course Offerings Bulletin Information

Follow the instructions in the OAA curriculum manual. If this is a course with decimal subdivisions, then use one New Course Request form for the generic information that will apply to all subdivisions; and use separate forms for each new decimal subdivision, including on each form the information that is unique to that subdivision. If the course offered is less than a quarter or a term, please complete the Flexibly Scheduled/Off Campus/Workshop Request form.

Description (not to exceed 25 words):

This course focuses on theoretical and applied aspects of stable isotope biogeochemistry in the natural environment with emphasis on carbon, oxygen, and nitrogen.

Quarter offered: Spring Distribution of class time/contact hours: 2 – 2hr cl, 1 hr recitation
 Quarter and contact/class time hours information should be omitted from Book 3 publication (yes or no):

Prerequisite(s): Senior standing in any science program, or graduate student standing in any of the sciences or permission of the instructor.

Exclusion or limiting clause:

Repeatable to a maximum of credit hours.Cross-listed with: N/AGrade Option (Please check): Letter_X S/U Progress What course is last in the series?

Honors Statement: Yes No X GEC: Yes No X Admission Condition
 Off-Campus: Yes No X EM: Yes No X Course: Yes No X
 Embedded Honors Statement: Yes No X

Other General Course information:

(e.g. "Taught in English." "Credit does not count toward BSBA degree.")

B. General Information

Subject Code GEOL SCI Subsidy Level (V, G, T, B, M, D, or P) B, M, D M
 If you have questions, please email Jed Dickhaut at dickhaut.1@osu.edu.

1. Provide the rationale for proposing this course:

Stable isotopes are used in a wide variety of biogeochemical disciplines (biology, geology, biogeochemistry, soils science, paleoclimatology, etc...) yet no course is offered on campus on the topic. Many graduate students in the School of Earth Sciences, Department of Ecology, Evolution, and Organismal Biology, and in the School of Natural Sciences use stable isotopes in their research. The interdisciplinary applications of this technique would be beneficial to students in all of these disciplines. As a new faculty with expertise and a research program in stable isotope biogeochemistry, and with a stable isotope laboratory on campus, Grotoli is well prepared to offer this modern state of the art course. When this course was offered in WQ06 as a Special Topics 694, there was a waiting list for the course, and Grotoli continues to get asked by students across the University to offer it again.

2. Please list Majors/Minors affected by the creation of this new course. Attach revisions of all affected programs.
 This course is (check one): Required on major(s)/minor(s) A choice on major(s)/minors(s)
 An elective within major(s)/minor(s) A general elective:

3. Indicate the nature of the program adjustments, new funding, and/or withdrawals that make possible the implementation of this new course.
New course taught by new faculty. No GTAs required for this course.

4. Is the approval of this request contingent upon the approval of other course requests or curricular requests?
 Yes No List:

5. If this course is part of a sequence, list the number of the other course(s) in the sequence: _____

6. Expected section size: **30** Proposed number of sections per year: **1 section every other year**

7. Do you want prerequisites enforced electronically (see OAA manual for what can be enforced)? Yes No

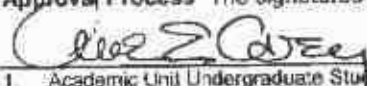
8. This course has been discussed with and has the concurrence of the following academic units needing this course or with academic units having directly related interests (List units and attach letters and/or forms):
 Not Applicable

School of Natural Resources (concurrence letter by Dr Eckert, see APPENDIX I)
Dept of Ecology, Evolution, and Organismal Biology (concurrence letter by Dr. Curtiss, see APPENDIX II)

9. Attach a course syllabus that includes a topical outline of the course, student learning outcomes and/or course objectives, off-campus field experience, methods of evaluation, and other items as stated in the OAA curriculum manual and e-mail to ascurofco@osu.edu.

SEE APPENDIX III

Approval Process The signatures on the lines in ALL CAPS (e.g. ACADEMIC UNIT) are required.

1.  **ANNE CAREY** 8 Feb 2007
 Academic Unit Undergraduate Studies Committee Chair Printed Name Date

2.  **MOTOMU IBARAKI** 2/9/07
 Academic Unit Graduate Studies Committee Chair Printed Name Date

3.  **FRANK W. SCHWARTZ** 13 Feb 07
 ACADEMIC UNIT CHAIR/DIRECTOR Printed Name Date

4. After the Academic Unit Chair/Director signs the request, forward the form to the ASC Curriculum Office, 105 Brown Hall, 190 West 17th Ave. or fax it to 688-5678. Attach the syllabus and any supporting documentation in an e-mail to ascurofco@osu.edu. The ASC Curriculum Office will forward the request to the appropriate committee.

5.  **Barbara S Ryden** 18 Feb 07
 COLLEGE CURRICULUM COMMITTEE Printed Name Date

6.  **Edward Adelman** 4-20-07
 ARTS AND SCIENCES EXECUTIVE DEAN Printed Name Date

7. Graduate School (if appropriate) Printed Name Date

8. University Honors Center (if appropriate) Printed Name Date

9. Office of International Education (if appropriate) Printed Name Date

10. ACADEMIC AFFAIRS Printed Name Date