## Request for CHANGING an Existing Course

### PRESENT COURSE DESCRIPTION

<table>
<thead>
<tr>
<th>Title</th>
<th>BIOL 1503 Honors: Biology for Science Majors II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Hours of Credit</td>
<td>4</td>
</tr>
<tr>
<td>If combination course type, # hrs. of credit for</td>
<td>Lecture: 3</td>
</tr>
<tr>
<td>Repeat Credit Max. (If repeatable):</td>
<td>Lab/Sem/Rec: 1</td>
</tr>
<tr>
<td>Graduate Credit?</td>
<td>Yes</td>
</tr>
<tr>
<td>Credit will not be given for this course and: BIOL 1002 and BIOL 1005 or BIOL 1202 and BIOL 1209</td>
<td></td>
</tr>
<tr>
<td>Contact Hours Per Week: (Indicate hours in appropriate course type.)</td>
<td></td>
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<td>3</td>
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<tr>
<td>Lab</td>
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<tr>
<td>Seminar</td>
<td></td>
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<tr>
<td>Recitation</td>
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<tr>
<td>Intern</td>
<td></td>
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<tr>
<td>Res/Ind</td>
<td></td>
</tr>
<tr>
<td>Clin/Pract</td>
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<td>Total Weekly Contact Hours:</td>
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<td>Grading System:</td>
<td>Letter Grade</td>
</tr>
<tr>
<td>Course Description: (Include course number, title, etc. as it appears in the General Catalog)</td>
<td></td>
</tr>
</tbody>
</table>

**BIOL 1503 Honors: Biology for Science Majors II (4)**

This is a General Education course. Prereq: BIOL 1201 and BIOL 1207 or BIOL 1208 and consent of instructor. Credit will not be given for this course and BIOL 1002 and BIOL 1005 or BIOL 1202 and BIOL 1209. 3 hrs. lecture; 3 hrs. lab. Similar content as BIOL 1202 and BIOL 1209 with special emphasis on selected topics for qualified students.

### PROPOSED COURSE DESCRIPTION

<table>
<thead>
<tr>
<th>Title</th>
<th>BIOL 1503 Honors: Biology for Science Majors II</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Lecture: 3</td>
</tr>
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**BIOL 1503 Honors: Biology for Science Majors II (4)**

This is a General Education course. Prereq: BIOL 1201 and BIOL 1207 or BIOL 1208 and permission of department. Credit will not be given for this course and BIOL 1002 and BIOL 1005 or BIOL 1202 and BIOL 1209. 3 hrs. lecture; 3 hrs. lab. Similar content as BIOL 1202 and BIOL 1209 with special emphasis on selected topics for qualified students.

**THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED.**

Has this change been discussed with and approved by all departments/colleges affected? Yes X No N/A

Is this course included in any curricula, concentrations, or minors? Yes No X If yes, please list on a separate sheet.

Is this course a prerequisite or corequisite for other courses? Yes No X If yes, list courses; use separate sheet.

Is this course on the General Education list? Yes X No

**JUSTIFICATION/EXPLANATION:** Use separate sheet.

**Note:** IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

## APPROVALS

<table>
<thead>
<tr>
<th>Department Faculty Approval Date</th>
<th>College Faculty Approval Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/2/2017</td>
<td>1/6/17</td>
</tr>
</tbody>
</table>

**Department Chair Signature**

**College Dean Signature**

**Graduate Dean Signature**

**College Contact E-mail**

**Academic Affairs Approval**

**Date**
Additional Information for Request for Changing an Existing Course-BIOL 1503 Honors: Biology for Science Majors II

JUSTIFICATION/EXPLANATION:

Honors Biology for Science Majors II (BIOL 1503) is the second semester introductory biology course for students in the Honors College. This course has seen a dramatic increase in demand over the past three years (i.e., an enrollment of 22 in 2014 has increased to an enrollment of 58 with 13 on the waitlist in 2017). This increase in demand has led to an unforeseen need to accommodate students who have credit in advanced placement (AP) biology from high school. Students who have AP biology credit cannot enroll in BIOL 1503 unless they receive permission from their college and are given a registration override also by their college. Because of the demand for the course, by the time these students receive permission, the class is often full. This current situation thus in effect penalizes these students for taking advanced coursework in high school. BIOL 1503 currently requires consent of instructor. While the system worked well when enrollments were low, it is no longer feasible for a course which has unmet demand, including the students with AP biology credit that are not receiving a fair chance for enrollment. We are therefore requesting a change from consent of instructor to permission of department for BIOL 1503. Similar to what was recently implemented for our permission of department courses BIOL 3116 and BIOL 4104, this would allow all eligible students to apply for permission to take BIOL 1503 throughout the registration period using a simple online system. The Department's Introductory Biology Program would then perform a random lottery of the students who applied as a means of selecting students for enrollment. This department-based system will allow all eligible and interested students, including those incoming with biology AP credit, a fair chance to enroll in the course.
Hey Andrea,

We received correspondence from the GenEd committee regarding the change to BIOL 1503. Per Dr. Bobby Matthews, the GenEd committee does not see any conflict with the proposed changes to the course. Will this email chain suffice as evidence needed to support our proposal?

Thank you,

---

Erin Doherty, LPC-S, NCC  
Academic Counselor  
College of Science  
Louisiana State University  
124 Hatcher Hall, Baton Rouge, LA 70803  
office 225-578-4200 | fax 225-578-8826  
edoherty1@lsu.edu | lsu.edu | science.lsu.edu

---

Hi Erin,

I requested approval from Dr. Bratton (listed as Chair of Gen Ed committee on Faculty Senate website). She questioned whether our change was even a Gen Ed consideration and Bobby Matthews responded to her (all included below). So it looks like our proposed change for BIOL 1503 from consent of instructor to permission of department does not conflict with any Gen Ed procedures, regulations, etc. Could you please convey this information to the Faculty Senate? Let me know if you need anything else.

Thanks,

Gregg S. Pettis, Ph.D.  
Associate Chair for Undergraduate Studies  
Department of Biological Sciences  
Louisiana State University  
101 Life Sciences Bldg.
From: Bobby L Matthews
Sent: Monday, July 17, 2017 7:07 PM
To: Gregg S Pettis
Cc: Kathleen A Bratton; Sandra O Guillot; James A Ottea
Subject: Re: BIOL 1503 course change

I am not aware of any General Education procedures, regulations or mores that conflict with this proposal.

Bobby

Bobby L Matthews, Ph.D
Director, Assessment & Eval
LSU

On Jul 17, 2017, at 6:00 PM, Gregg S Pettis <gpettis@lsu.edu> wrote:

Thanks for the info. They meet this Thursday (July 20th).

Gregg

Gregg S. Pettis, Ph.D.
Associate Chair for Undergraduate Studies
Department of Biological Sciences
Louisiana State University
101 Life Sciences Bldg.
Baton Rouge, LA, USA 70803

From: Kathleen A Bratton
Sent: Monday, July 17, 2017 5:11:34 PM
To: Gregg S Pettis
Cc: Sandra O Guillot; Bobby L Matthews
Subject: Re: BIOL 1503 course change

Hi,

I'm not Chair of Gen Ed at this point-- Jim Ottea (jottea@lsu.edu) is Chair for the 2017-2018 academic year, although we don't meet in the summer.

When does the Faculty Senate C&C meet?
I'm cc'ing this to Bobby Matthews and Sandi Guillot—Bobby & Sandi, do you think this is a gen ed question? It focuses not on the content of the course, nor the pre-reqs, nor the students allowed to enroll—it just changes the manner in which students are enrolled (permission of instructor versus permission of department—as a mechanism to handle high enrollment & waitlists).

Best,

Kate

Kathleen A. Bratton
Associate Professor, Political Science
208 A Stubbs Hall
225-963-1962
bratton@lsu.edu

From: Gregg S Pettis
Sent: Wednesday, July 12, 2017 1:39:27 PM
To: Kathleen A Bratton
Subject: BIOL 1503 course change

Hi Dr. Bratton,

At their July meeting, the Faculty Senate Courses and Curriculum committee will be considering a change to the GenEd course BIOL 1503. Specifically, we (Dept. of Biological Sciences) are requesting a change from consent of instructor to permission of department for the course and our justification is attached. The Faculty Senate C&C committee requested that we include a letter or email from you, as Chair of the General Education Committee, stating that you do not oppose the change as presented. If you indeed have no such opposition, please provide that information to me as soon as possible. Please let me know if you need anything else from me.

Thanks,
Gregg

Gregg S. Pettis, Ph.D.
Associate Chair for Undergraduate Studies
Department of Biological Sciences
Louisiana State University
101 Life Sciences Bldg.
Baton Rouge, LA, USA 70803
**Request for CHANGING an Existing Course**

<table>
<thead>
<tr>
<th><strong>PRESENT COURSE DESCRIPTION</strong></th>
<th><strong>PROPOSED COURSE DESCRIPTION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title</strong></td>
<td><strong>Title</strong></td>
</tr>
<tr>
<td>Microbial Pathogens</td>
<td>Microbial Pathogens</td>
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<tr>
<td><strong>Semester Hours of Credit</strong></td>
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<td>3</td>
<td>MICROBIAL PATHOGENS</td>
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<td><strong>If combination course type, # hrs. of credit for</strong></td>
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<td>Lab/Sem/Rec:</td>
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<td><strong>Repeat Credit Max. (If repeatable):</strong></td>
<td><strong>Lecture:</strong></td>
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<tr>
<td>Yes X No</td>
<td>Lab/Sem/Rec:</td>
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<tr>
<td><strong>Graduate Credit?</strong></td>
<td><strong>Repeat Credit Max. (If repeatable):</strong></td>
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<tr>
<td>Yes X No</td>
<td>Yes X No</td>
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<td><strong>Contact Hours Per Week:</strong></td>
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<tr>
<td>(Indicate hours in appropriate course type.)</td>
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<tr>
<td>Lecture 3</td>
<td>Lecture 3</td>
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<td>Lab</td>
<td>Seminar</td>
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<td>Pass/Fail</td>
<td>Pass/Fail</td>
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<td><strong>Course Description:</strong></td>
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<td>(Include course number, title, etc. exactly as it appears in the General Catalog)</td>
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</tr>
<tr>
<td>BIOL 4124 Microbial Pathogens (3)</td>
<td>BIOL 4124 Microbial Pathogens (3)</td>
</tr>
</tbody>
</table>
| Prereq: BIOL 2051 and either BIOL 3090 or BIOL 4123. Survey of pathogenic organisms including bacteria, viruses, fungi and parasites; host responses to pathogens. | Prereq: BIOL 2051. Survey of pathogenic organisms including bacteria, viruses, fungi and parasites; host responses to pathogens. 

**THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED.**

Has this change been discussed with and approved by all departments/colleges affected? Yes X No N/A

Is this course included in any curricula, concentrations, or minors? Yes X No  ____  If yes, please list on a separate sheet.

Is this course a **pre**/require or corequisite for other courses? Yes  ____  No X  ____  If yes, list courses; use separate sheet.

Is this course on the General Education list? Yes  ____  No X  ____

**JUSTIFICATION/EXPLANATION:** Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

**APPROVALS**

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<td>6/2/17</td>
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<td>6/21/17</td>
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</table>

**Department Chair Signature**

**Graduate Dean Signature**

**Academic Affairs Approval**

**College Dean Signature**

**Chair, FS C&C Committee**

**E-mail**

edohertyj@lsu.edu
Additional Information for Request for Changing an Existing Course-BIOL 4124 Microbial Pathogens

"Is this course included in any curricula, concentrations, or minors?  Yes X  No____. If yes, please list on a separate sheet."

BIOL 4124 is an approved biological sciences elective in the Biological Sciences BS degree (no concentration, marine biology concentration, secondary education concentration), as well as an approved microbiology elective in the Microbiology BS degree.

JUSTIFICATION/EXPLANATION:

BIOL 4124 was originally taught in sequence with BIOL 4123 Immunology such that BIOL 4123 was taught exclusively in the fall and BIOL 4124 was offered only in the spring. Due to the coordinated course content of the two courses, there was justification for requiring BIOL 4123 (or BIOL 3090 Cell Biology was acceptable) as a prerequisite for BIOL 4124. However, BIOL 4124 is now taught independently of BIOL 4123 and builds off the basic microbiological principles that are adequately covered in BIOL 2051. In this regard, it is noteworthy that Dr. Hale-Donze, the instructor for both BIOL 4124 and BIOL 4123 for several years, has recently also begun teaching BIOL 2051; thus, she has firsthand knowledge of the content for all of these courses, and, based on her knowledge and experience, Dr. Hale-Donze has made the request for this specific prerequisite change. The Department of Biological Sciences is therefore requesting that the prerequisite for BIOL 4124 be changed to BIOL 2051 only.
### Request for Changing an Existing Course

**Present Course Description**

<table>
<thead>
<tr>
<th>Title</th>
<th>Advanced Calculus I</th>
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<tbody>
<tr>
<td>Semester Hours of Credit</td>
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<td>Graduate Credit?</td>
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<td>Lec 3</td>
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<tr>
<td>Grading System:</td>
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**Math 4031 Advanced Calculus I (3) Prereq.: MATH 2085 and either MATH 2072 or MATH 2088. Completeness of the real line, Bolzano-Weierstrass theorem and Heine-Borel theorem; continuous functions including uniform convergence and completeness of C[a,b]; Riemann integration and the Darboux Criterion.**

**Proposed Course Description**

<table>
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<tr>
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<tr>
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<tr>
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**Math 4031 Advanced Calculus I (3) Prereq.: Either MATH 2072 or MATH 2082 or MATH 2090. Completeness of the real line, Bolzano-Weierstrass theorem and Heine-Borel theorem; continuous functions including uniform convergence and completeness of C[a,b]; Riemann integration and the Darboux Criterion.**

**These questions must be answered completely and accurately or proposal will be returned.**

Has this change been discussed with and approved by all departments/colleges affected? Yes __ No __ N/A __

Is this course included in any curricula, concentrations, or minors? Yes __ No _ if yes, please list on a separate sheet.

Is this course a prerequisite or corequisite for other courses? Yes __ No __ if yes, list courses; use separate sheet.

Is this course on the General Education list? Yes __ No __

**Justification/Explanation:** Use separate sheet.

Note: If course is or will be cross-listed, separate forms must be submitted by each department.

**Approvals**

<table>
<thead>
<tr>
<th>Department Faculty Approval Date</th>
<th>College Faculty Approval Date</th>
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</thead>
<tbody>
<tr>
<td>Charles Reid, Chair, Mathematics, June 6, 2017</td>
<td>John B. Hope, Chair, F&amp;S C&amp;C Committee, 7/20/17</td>
</tr>
<tr>
<td>Michelle G. Mee, Associate Dean, 7/13/17</td>
<td>Erin Deharty, College Contact, <a href="mailto:edeharty@ksv.edu">edeharty@ksv.edu</a>, 7/27/17</td>
</tr>
</tbody>
</table>

**Academic Affairs Approval:** 7/27/17
Summary of and Justification for the Proposed Change

The proposal here for Math 4031 is to change the prereq from
"MATH 2085,
and either MATH 2057 or MATH 2058" to
"either MATH 2057 or MATH 2058 and either MATH 2085 or MATH 2090."
(Math 2090 is Elementary Differential Equations & Linear Algebra (4); Math 2085 is Linear Algebra (3).)

We in Math have always allowed students with Math 2090 to take Math 4031, but in fall 2015 we began using the
mainframe's optional "automatic prereq check" feature on all undergrad math courses, and now the mainframe blocks
students with Math 2090 from scheduling Math 4031. This Form C will fix that oversight.

Courses, Curricula, Colleges, Offices, Concentrations, and Minors that mention Math 4031

A. College of Science
A.1. Curriculum in Mathematics (Department of Mathematics).

No affected units.

Approvals of affected units
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CONCENTRATION

Department: Geology & Geophysics
College: Science
Name of Concentration: Geophysics
Name of Curriculum/Major: Geology
Type of Degree: BS
Date: April 2, 2016

Has this change been discussed with and approved by all departments/colleges affected? Yes (X) No ( ) N/A ( )

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected [i.e. any department whose course(s) are to be added.]
ATTACH FORM D ADDENDUM for all new concentration or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: The entire new concentration, by semester, must be typed on plain sheets and attached to Form E. (See sample layout attached.)
(X) CHANGING: Regardless if all semesters of a concentration are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Explain all changes adequately on attachment.
( ) SUSPENDING: Provide an adequate explanation for suspending the concentration on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
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</thead>
<tbody>
<tr>
<td>Total semester hours in current concentration: 120</td>
<td>Total semester hours in proposed concentration: 120</td>
</tr>
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</table>

APPROVALS:

Department Faculty Approval Date: July 7, 2017
College Faculty Approval Date: __________

Chair's Signature: ____________________________
Date: __________

Dean's Signature: ____________________________
Date: __________

Chair, FS C & C Committee: ____________________________
Date: __________

Academic Affairs Approval: ____________________________
Date: __________

Contact: Ed Doherty
Email: edoherty1@lsu.edu
July 7, 2017

To: College and Campus Curriculum Committees
From: Carol Wicks on behalf of G&G faculty
Re: Justification for changing GEOPHYSICS concentration

We are seeking to add two courses to the Geophysics concentration – CSC1240 and GEOL3061. We are also requesting to remove one course GEOL2061. We also need to adjust the number of free electives that students may complete so that the degree plan remains at 120 credit hours.

The addition of CSC1240, a general education course offered by Computer Science, will expose geology students to statistics, to MATLAB, and to scientific graphing. This course meets the needs of the second-year GEOL students as they will gain knowledge and skills that they will use throughout the rest of their BS degree.

We are adding more geophysics focused courses to the area of concentration list because our faculties’ expertise has expanded into geophysics and we are to offer more options to the students.

**CSC 1240 Statistics and graphics with MATLAB (3)**

This is a General Education course. Prereq.: MATH 1021 or placement in MATH 1022, MATH 1023, MATH 1431, MATH 1550 or MATH 1551. Credit will not be given for both this course and CSC 2262 or CSC 2533 or QCS 2011. Not for degree credit for computer science majors. 2 hrs. lecture; 2 hrs. lab. Introduction to MATLAB programming with applications in statistics and graphics.
Carol M Wicks

From: Dr. Bijaya Karki <karki@csc.lsu.edu>
Sent: Tuesday, March 28, 2017 9:20 AM
To: Carol M Wicks
Cc: douglas@csc.lsu.edu; karki@csc.lsu.edu
Subject: Re: csc1240

Dr. Wicks,

Using CSC 1240 for the BS GEOL majors is fine with computer science.

Thanks,
Bijay

On Tue, 28 Mar 2017 14:07:57 +0000, Carol M Wicks wrote
> Dear Dr. Karki,
> 
> G&G would like to require the BS GEOL majors take CSC1240. G&G faculty
> think that CSC1240 will help GEOL majors learn Matlab and elementary
> statistics and some scientific graphing.
> 
> I am requesting an email from you on behalf of the Comp Sci faculty
> that you agree to allow BS GEOL majors into CSC1240.
> 
> I estimate that there would be ~20 GEOL majors per year.
> 
> Please let me know if you need additional information.
> 
> Carol M. Wicks, PhD
> Chair and Frank W. and Patricia Harrison Family Professor Department
> of Geology and Geophysics Louisiana State University
> E235 Howe-Russell-Kniffen Geoscience Complex, Baton Rouge LA 70803
> 225-578-2692 (office) | 225-223-8187 (cell)
> cwicks@lsu.edu<mailto: cwicks@lsu.edu>

******************************************
Bijaya Bahadur Karki, PhD
Chair and McDermott Endowed Professor Computer Science and Engineering Division, School of EECS Adjunct
Professor, Department of Geology and Geophysics Faculty Member, Center for Computation and Technology Louisiana
State University 102F Electrical Engineering Bldg, Baton Rouge, LA 70803
Ph: 225-5781252, Fax: 225-5781465
karki@csc.lsu.edu | www.cse.lsu.edu/~karki
******************************************
### GENERAL EDUCATION REQUIREMENTS

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum semester for all General Education courses.

<table>
<thead>
<tr>
<th>General Education Requirement</th>
<th>Course(s)</th>
<th>Credit Hours</th>
<th>Curriculum Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (6 hrs.)</td>
<td>ENGL 1001 or 1004</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td>ENGL 2000</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Analytical Reasoning (6 hrs.)</td>
<td>General Education analytical reasoning course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(At least 3 hours credit must be</td>
<td>(from mathematics department)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>from a MATH course.)</td>
<td>General Education analytical reasoning course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education arts course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Arts (3 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities (9 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(If 2 course sequence is taken in</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>the physical sciences, the</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>additional 3 hour course must be</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>from the life sciences, and vice</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>versa.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Sciences (6 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(At least three hours at the</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2000-level.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
RECOMMENDED WORDING FOR GENERAL EDUCATION REQUIREMENTS

Departments and programs should employ the following wording where possible to ensure consistency across curricula in the description of General Education requirements.

* If 2 course natural science sequence is taken in the physical sciences, the additional 3 hour natural science course must be from the life sciences, and vice versa.

**English Composition**
- English 1001 or 1004.................................................................3
- English 2000..............................................................................3

**Natural Sciences**
- General education natural science course sequence......................6
- General education natural science course*..................................3

**Social Sciences**
- General education social science course ....................................3
- General education social science course (2000-level)....................3

**Analytical Reasoning**
- General education analytical reasoning course (from mathematics department)....3
- General education analytical reasoning course..............................3

**Humanities**
- General education humanities course ......................................3
- General education humanities course ......................................3
- General education humanities course ......................................3

**Arts**
- General education arts course .................................................3
CURRENT REQUIREMENTS

Geophysics

CRITICAL REQUIREMENTS

SEMESTER 1: "C" or better in ENGL 1001 and GEOL 1201; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: "C" or better in CHEM 1201 and GEOL 1202; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: "C" or better in BIOL 1201 and MATH 1550; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: "C" or better in GEOL 2081/GEOL 2064 and PHYS 1201; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: "C" or better in GEOL 3032/GEOL 3041; 2.0 Cumulative, LSU and Semester GPA.

Recommended as preparation for a career in geophysics and related fields or entrance to graduate study.

Semester 1

- CRITICAL: "C" or better in ENGL 1001 and GEOL 1201; 2.0 Cumulative, LSU and Semester GPA.
- CHEM 1201 General Chemistry I (3)
- ENGL 1001 English Composition (3)
- GEOL 1201 Principles of Geology I (4)
- MATH 1550 Analytic Geometry and Calculus I (5)

Total Semester Hours: 15

Semester 2

- CRITICAL: "C" or better in CHEM 1201 and GEOL 1202; 2.0 Cumulative, LSU and Semester GPA.
- CHEM 1202 General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2)
- GEOL 1202 Principles of Geology II (4)
- MATH 1552 Analytic Geometry and Calculus II (4)
- BIOL 1201 Biology for Science Majors I (3)

Total Semester Hours: 16

Semester 3

- CRITICAL: "C" or better in BIOL 1201 and MATH 1550; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
- MATH 2065 Elementary Differential Equations (3) or MATH 2090 Elementary Differential Equations and Linear Algebra (4)
- PHYS 1201 General Physics for Physics Majors (4)
- PHYS 1208 General Physics Laboratory for Physics Majors (1) or PHYS 2108 Introductory Physics Laboratory (1)
- General Education course—Social Sciences (3)
- First Course in Foreign Language Sequence (4)

Total Semester Hours: 16-15

Semester 4

- CRITICAL: "C" or better in GEOL 2081/GEOL 2064 and PHYS 1201; 2.0 Cumulative, LSU and Semester GPA.
- ENGL 2000 English Composition (3)
- PHYS 1202 General Physics for Physics Majors (4)
- PHYS 1209 General Physics Laboratory for Physics Majors (1) or PHYS 2109 General Physics Laboratory (1)
- GEOL 2061 History of the Biosphere (4)
- GEOL 2081 Mineralogy (4)
Total Semester Hours: 46

Semester 5

- **CRITICAL:** “C” or better in GEOL 3032/GEOL 3041: 2.0 Cumulative, LSU and Semester GPA.
- PHYS 2203 Introductory Modern Physics (3)
- GEOL 3041 Igneous and Metamorphic Petrology (4)
- GEOL 3032 Introduction to Sedimentology and Depositional Environments (4)
- General Education course - Social Sciences (2000-level) (3)
- General Education course - Humanities (ENGL/HNRS 2000-level) (3)

Total Semester Hours: 17

Semester 6

- GEOL 3071 Structural Geology (4)
- PETE 3036 Well Logging (3)
- General Education course - Arts (3)
- General Education course - Humanities (3)
- Approved Elective (0-1)

Total Semester Hours: 13-14

Semester 7

- SUMMER-Six week field study course.
- GEOL 3666 Field Geology (6)

Total Semester Hours: 6

Semester 8

- GEOL 4000-level Course (3)
- Area of Concentration Course (6)\(^1\)
- Approved Elective (3)

Total Semester Hours: 12

Semester 9

- Area of Concentration Course (3)\(^2\)
- Approved Electives (6)\(^4\)

Total Semester Hours: 9

120 Total Sem. Hrs.

\(^1\) AREA OF CONCENTRATION COURSES: GEOL 4060, GEOL 4062, GEOL 4066 or GEOL 4068.
PROPOSED REQUIREMENTS

Geophysics

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and GEOL 1201; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: “C” or better in CHEM 1201 and GEOL 1202; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: “C” or better in BIOL 1201 and MATH 1550 and CSC1240; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in GEOL 2081 and PHYS 1201; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: “C” or better in GEOL 3032/GEOL 3041; 2.0 Cumulative, LSU and Semester GPA.

Recommended as preparation for a career in geophysics and related fields or entrance to graduate study.

Total Semester Hours: 16

Semester 3

- CRITICAL: “C” or better in BIOL 1201, MATH 1550, and CSC1240; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
- CSC1240 (3) Statistics and Graphics with MATLAB
- MATH 2065 Elementary Differential Equations (3) or
- MATH 2090 Elementary Differential Equations and Linear Algebra (4)
- PHYS 1201 General Physics for Physics Majors (4)
- PHYS 1208 General Physics Laboratory for Physics Majors (1) or
- PHYS 2108 Introductory Physics Laboratory (1)
- First Course in Foreign Language Sequence (4)

Total Semester Hours: 16-15

Semester 4

- CRITICAL: “C” or better in GEOL 2081 and PHYS 1201; 2.0 Cumulative, LSU and Semester GPA.
- ENGL 2000 English Composition (3)
- PHYS 1202 General Physics for Physics Majors (4)
- PHYS 1209 General Physics Laboratory for Physics Majors (1) or
- PHYS 2109 General Physics Laboratory (1)
- GEOL 2081 Mineralogy (4)
- General education social sciences course (3)

Total Semester Hours: 15

Semester 5
• CRITICAL: “C” or better in GEOL 3032/GEOL 3041; 2.0 Cumulative, LSU and Semester GPA.
• PHYS 2203 Introductory Modern Physics (3)
• GEOL 3041 Igneous and Metamorphic Petrology (4)
• GEOL 3032 Introduction to Sedimentology and Depositional Environments (4)
• General Education course - Social Sciences (2000-level) (3)
• General Education course - Humanities (ENGL/HNRS 2000-level) (3)

**Total Semester Hours: 17**

### Semester 6

- GEOL3061 Evolution of the Biosphere (4)
- GEOL 3071 Structural Geology (4)
- PETE 3036 Well Logging (3)
- General Education course - Humanities (3)
- Free Elective (0-1)

**Total Semester Hours: 15-14**

### Semester 7

- SUMMER-Six week field study course.
- GEOL 3666 Field Geology (6)

**Total Semester Hours: 6**

### Semester 8

- GEOL 4000-level Course (3)
- Area of Concentration Course (6)
- General education arts course (3)

**Total Semester Hours: 12**

### Semester 9

- Area of Concentration Course (3)
- Free Electives (6)

**Total Semester Hours: 9**

120 Total Sem. Hrs.

Area of concentration courses: Nine hours of geology electives that must be chosen from GEOL4019, GEOL4045, GEOL 4060, GEOL 4062, GEOL 4066, GEOL 4068, GEOL4107, GEOL4150, GEOL4182.
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CONCENTRATION

Department: Geology & Geophysics  
College: Science  
Name of Concentration: Geology  
Name of Curriculum/Major: Geology  
Type of Degree: BS  
Date: July 7, 2017

Has this change been discussed with and approved by all departments/colleges affected? Yes (X)  No ( )  N/A ( )

ATTACH JUSTIFICATION for all actions: Use separate sheet.  
ATTACH RESPONSE from any departments affected [i.e. any department whose course(s) are to be added.]  
ATTACH FORM D ADDENDUM for all new concentration or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: The entire new concentration, by semester, must be typed on plain sheets and attached to Form E. (See sample layout attached.)

( ) CHANGING: Regardless if all semesters of a concentration are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the concentration on plain sheets and attach.

( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current concentration: 120</td>
<td>Total semester hours in proposed concentration: 120</td>
</tr>
</tbody>
</table>

APPROVALS:

Department Faculty Approval Date: July 7, 2017  
College Faculty Approval Date:  
Department Chair's Signature:  
(Date)  
College Dean’s Signature:  
(Date)  
Chair, FS C & C Committee:  
(Date)  
Academic Affairs Approval:  
(Date)  
College/Division/Department Contact: Edith Doherity  
Contact E-mail: edoherity@huso.edu
## GENERAL EDUCATION REQUIREMENTS

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<td>General Education natural science course sequence</td>
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<td></td>
</tr>
<tr>
<td>(If 2 course sequence is taken in the</td>
<td>General Education natural science course</td>
<td>3</td>
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<tr>
<td>physical sciences, the additional 3</td>
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<tr>
<td>hour course must be from the life</td>
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<td></td>
</tr>
<tr>
<td>sciences, and vice versa.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Sciences (6 hrs.)</td>
<td>General Education social science course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(At least three hours at the 2000-level.)</td>
<td>General Education social science course (2000-level)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
RECOMMENDED WORDING FOR GENERAL EDUCATION REQUIREMENTS

Departments and programs should employ the following wording where possible to ensure consistency across curricula in the description of General Education requirements.

* If 2 course natural science sequence is taken in the physical sciences, the additional 3 hour natural science course must be from the life sciences, and vice versa.

English Composition
English 1001 or 1004.................................................................3
English 2000.................................................................3

Natural Sciences
General education natural science course sequence.........................6
General education natural science course*.....................................3

Social Sciences
General education social science course ....................................3
General education social science course (2000-level).......................3

Analytical Reasoning
General education analytical reasoning course (from mathematics department)....3
General education analytical reasoning course..................................3

Humanities
General education humanities course .....................................3
General education humanities course .....................................3
General education humanities course .....................................3

Arts
General education arts course .............................................3
Instructions for Form E: Adding, Changing, Suspending or Dropping a Concentration

One original copy of each request must be submitted.

All questions must be answered. The proposal will be delayed until the form is filled out completely and accurately.

The department should consider the length of time necessary to obtain final approval. Substantive changes can require as long as 18 months before official implementation. Thus, requests should be submitted early enough to obtain final approval before the desired effective date. Changes to concentrations generally take effect with the publication of the next General Catalog.

Dates of departmental and college approval of the proposal must be recorded. The Faculty Senate Courses and Curricula Committee will not consider proposals that have not been approved by college/departmental courses and curricula committees. In addition, any other division of the University that might be affected by the concentration change must be consulted. The affected unit must be invited to submit a written response; such response will be weighed by the Faculty Senate Courses and Curricula Committee in its deliberations.

g. Adding a New Concentration
A concentration is an intensive study of a subject within the major field (usually 30 percent of the major requirements). The entire (eight-semester) recommended path, by semester, must be typed on plain sheets and attached to Form E. A brief justification for adding the concentration must be attached to Form E.

b. Changing an Existing Concentration
Regardless if all semesters of a concentration are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Indicate the present and proposed total semester hours. Departments must give an adequate explanation for the requested changes on a separate sheet attached to Form E. (Changes in the curriculum must be submitted on Form D.)

c. Suspending a Concentration
A brief explanation for the suspension must be attached to Form E. When a concentration is suspended, students already in the concentration are allowed to finish. No new students, however, will be admitted.

Requests to reactivate suspended concentrations must be made by submitting a Form E to the Faculty Senate Courses and Curricula Committee. Indicate on Form E that a suspended concentration is to be reactivated rather than a new concentration added. If a significant amount of time has passed since the suspension, departments must check the current General Catalog carefully to ensure that the program meets all current requirements and that no required courses have been dropped.
d. Dropping a Concentration
A brief explanation for the drop must be attached to Form E. When a concentration is dropped, students already in the concentration are allowed to finish. No new students, however, will be admitted.

Form D Addendum · General Education Requirement

When a department adds a new concentration or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the concentration that satisfy the general education requirement.
CURRENT REQUIREMENTS

Geology

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and GEOL 1201; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: “C” or better in CHEM 1201 and GEOL 1202; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: “C” or better in BIOL 1201 and MATH 1550; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in GEOL 2061/GEOL 2081 and PHYS 1201/PHYS 2001; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: “C” or better in GEOL 3032/GEOL 3041; 2.0 Cumulative, LSU and Semester GPA.

Recommended as preparation for a career in geology and related fields, or entrance to a graduate study.

Semester 1

- CRITICAL: “C” or better in ENGL 1001 and GEOL 1201; 2.0 Cumulative, LSU and Semester GPA.
- ENGL 1001 English Composition (3)
- CHEM 1201 General Chemistry I (3)
- GEOL 1201 Principles of Geology I (4)
- MATH 1550 Analytic Geometry and Calculus I (5)

Total Semester Hours: 15

Semester 2

- CRITICAL: “C” or better in CHEM 1201 and GEOL 1202; 2.0 Cumulative, LSU and Semester GPA.
- CHEM 1202 General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2)
- GEOL 1202 Principles of Geology II (4)
- MATH 1552 Analytic Geometry and Calculus II (4)
- BIOL 1201 Biology for Science Majors I (3)

Total Semester Hours: 16

Semester 3

- CRITICAL: “C” or better in BIOL 1201 and MATH 1550; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
- BIOL 1202 Biology for Science Majors II (3)
- PHYS 1201 General Physics for Physics Majors (4) or PHYS 2001 General Physics I (3)
- PHYS 1208 General Physics Laboratory for Physics Majors (1) or PHYS 2108 Introductory Physics Laboratory (1)
- General Education course—Arts (3)
- First Course in Foreign Language Sequence (4)

Total Semester Hours: 15-14
Semester 4

- CRITICAL: “C” or better in GEOL 2064/GEOL 2081 and PHYS 1201/PHYS 2001; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- GEOL 2061 History of the Biosphere (4)
- GEOL 2081 Mineralogy (4)

- PHYS 1202 General Physics for Physics Majors (4) or
- PHYS 2002 General Physics II (3)

- PHYS 1209 General Physics Laboratory for Physics Majors (1) or
- PHYS 2109 General Physics Laboratory (1)

Total Semester Hours: 16-15

Semester 5

- CRITICAL: “C” or better in GEOL 3032/GEOL 3041; 2.0 Cumulative, LSU and Semester GPA.

- GEOL 3032 Introduction to Sedimentology and Depositional Environments (4)
- GEOL 3041 Igneous and Metamorphic Petrology (4)
- General Education course - Humanities (ENGL/HNRS 2000-level) (3)
- General Education course - Social Sciences (3)

Total Semester Hours: 14

Semester 6

- GEOL 3071 Structural Geology (4)
- General Education course - Social Sciences (2000-level) (3)
- General Education course - Humanities (3)
- Approved Electives (6)

Total Semester Hours: 46

Semester 7

- SUMMER SESSION: Geology Field Camp.
- GEOL 3666 Field Geology (6)

Total Semester Hours: 6

Semester 8

- Approved Electives (6)
- GEOL 4000-level Courses (6)

Total Semester Hours: 12

Semester 9

- GEOL 4000-level Courses (6)
- Approved Electives (4-6)

Total Semester Hours: 10-12

120 Total Sem. Hrs.
PROPOSED REQUIREMENTS

Geology

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and GEOL 1201; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: “C” or better in CHEM 1201 and GEOL 1202; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: “C” or better in BIOL 1201, MATH 1550, and CSC1240; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in GEOL 2081 and PHYS 1201/PHYS 2001; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: “C” or better in GEOL 3032/GEOL 3041; 2.0 Cumulative, LSU and Semester GPA.

Recommended as preparation for a career in geology and related fields, or entrance to a graduate study.

Semester 1

- **CRITICAL**: “C” or better in ENGL 1001 and GEOL 1201; 2.0 Cumulative, LSU and Semester GPA.
- ENGL 1001 English Composition (3)
- CHEM 1201 General Chemistry I (3)
- GEOL 1201 Principles of Geology I (4)
- MATH 1550 Analytic Geometry and Calculus I (5)

Total Semester Hours: 15

Semester 2

- **CRITICAL**: “C” or better in CHEM 1201 and GEOL 1202; 2.0 Cumulative, LSU and Semester GPA.
- CHEM 1202 General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2)
- GEOL 1202 Principles of Geology II (4)
- MATH 1552 Analytic Geometry and Calculus II (4)
- BIOL 1201 Biology for Science Majors I (3)

Total Semester Hours: 16

Semester 3

- **CRITICAL**: “C” or better in BIOL 1201, MATH 1550, and CSC1240; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
- BIOL 1202 Biology for Science Majors II (3)
- PHYS 1201 General Physics for Physics Majors (4) or PHYS 2001 General Physics I (3)
- PHYS 1208 General Physics Laboratory for Physics Majors (1) or PHYS 2108 Introductory Physics Laboratory (1)
- CSC1240 Statistics and Graphics with MATLAB (3)
- First Course in Foreign Language Sequence (4)

Total Semester Hours: 15-14

Semester 4

- **CRITICAL**: “C” or better in GEOL 2081 and PHYS 1201/PHYS 2001; 2.0 Cumulative, LSU and Semester GPA.
- ENGL 2000 English Composition (3)
- GEOL 2081 Mineralogy (4)
- PHYS 1202 General Physics for Physics Majors (4) or
- PHYS 2002 General Physics II (3)
- PHYS 1209 General Physics Laboratory for Physics Majors (1) or
- PHYS 2109 General Physics Laboratory (1)
- General education arts course (3)

Total Semester Hours: 15-14

Semester 7

- SUMMER SESSION: Geology Field Camp.
- GEOL 3666 Field Geology (6)

Total Semester Hours: 6

Semester 8

- Free Electives (6)
- GEOL 4000-level Courses (6)

Total Semester Hours: 12

Semester 9

- GEOL 4000-level Courses (6)
- Free Electives (4-6)

Total Semester Hours: 10-12

120 Total Sem. Hrs.

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### Notes:

1. Area of Concentration Course: Twelve hours of 4000-level geology electives
July 7, 2017

To: College and Campus Curriculum Committees
From: Carol Wicks on behalf of G&G faculty
Re: Justification for changing GEOL concentration

We are seeking to add two courses to the Geology concentration – CSC1240 and GEOL3061. We are also requesting to remove one course GEOL2061. We also need to adjust the number of free electives that students may complete so that the degree plan remains at 120 credit hours.

The addition of CSC1240, a general education course offered by Computer Science, will expose geology students to statistics, to MATLAB, and to scientific graphing. This course meets the needs of the second-year GEOL students as they will gain knowledge and skills that they will use throughout the rest of their BS degree.

_CSC 1240 Statistics and graphics with MATLAB (3)_
This is a General Education course. Prereq.: _MATH 1021_ or placement in _MATH 1022, MATH 1023, MATH 1431, MATH 1550_ or _MATH 1551_. Credit will not be given for both this course and _CSC 2262_ or _CSC 2533_ or _OCS 2011_. Not for degree credit for computer science majors. 2 hrs. lecture; 2 hrs. lab. Introduction to MATLAB programming with applications in statistics and graphics.
Dr. Wicks,

Using CSC 1240 for the BS GEOL majors is fine with computer science.

Thanks,
Bijay

On Tue, 28 Mar 2017 14:07:57 +0000, Carol M Wicks wrote
> Dear Dr. Karki,
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> > I estimate that there would be ~20 GEOL majors per year.
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> > Please let me know if you need additional information.
> >
> > Carol M. Wicks, PhD
> > Chair and Frank W. and Patricia Harrison Family Professor Department
> > of Geology and Geophysics Louisiana State University
> > E235 Howe-Russell-Kniffen Geoscience Complex, Baton Rouge LA 70803
> > 225-578-2692 (office) | 225-223-8187 (cell)
> > cwicks@lsu.edu<mailto: cwicks@lsu.edu>

******************************************************************************

Bijaya Bahadur Karki, PhD
Chair and McDermott Endowed Professor Computer Science and Engineering Division, School of EECS Adjunct Professor, Department of Geology and Geophysics Faculty Member, Center for Computation and Technology Louisiana State University 102F Electrical Engineering Bldg, Baton Rouge, LA 70803
Ph: 225-5781252, Fax: 225-5781465
karki@csc.lsu.edu | www.cse.lsu.edu/~karki
******************************************************************************
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CONCENTRATION

Department: Geology & Geophysics
College: Science
Name of Concentration: Environmental Geology
Name of Curriculum/Major: Geology
Type of Degree: BS
Date: July 7, 2017

Has this change been discussed with and approved by all departments/colleges affected? Yes (X)  No ( )  N/A ( )

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected (i.e. any department whose course(s) are to be added.)
ATTACH FORM D ADDENDUM for all new concentration or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: The entire new concentration, by semester, must be typed on plain sheets and attached to Form E. (See sample layout attached.)

( X ) CHANGING: Regardless if all semesters of a concentration are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Explain all changes adequately on attachment.

( ) SUSPENDING: Provide an adequate explanation for suspending the concentration on plain sheets and attach.

( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current concentration: 120</td>
<td>Total semester hours in proposed concentration: 120</td>
</tr>
</tbody>
</table>

APPROVALS:

Department Faculty Approval Date  July 7, 2017  
College Faculty Approval Date

Department Chair’s Signature  (Date)  
College Dean’s Signature  (Date)  
Chair, FS C & C Committee  (Date)  
Academic Affairs Approval  (Date)  

College/Division/Department Contact:  Brian Doherty
Contact E-mail:  edoherty1@isu.edu
# GENERAL EDUCATION REQUIREMENTS

When a department adds a new curriculum or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the curriculum that satisfy the General Education requirement. Include course rubric, number, and credit hours when curricula differ from the default values. Indicate the curriculum semester for all General Education courses.

<table>
<thead>
<tr>
<th>General Education Requirement</th>
<th>Course(s)</th>
<th>Credit Hours</th>
<th>Curriculum Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (6 hrs.)</td>
<td>ENGL 1001 or 1004</td>
<td>3</td>
<td>(X) 1st (X) 6th</td>
</tr>
<tr>
<td></td>
<td>ENGL 2000</td>
<td>3</td>
<td>(X) 1st (X) 6th</td>
</tr>
<tr>
<td>Analytical Reasoning (6 hrs.)</td>
<td>General Education analytical reasoning course (from mathematics department)</td>
<td>3</td>
<td>(X) 1st (X) 6th</td>
</tr>
<tr>
<td>(At least 3 hours credit must be from a MATH course.)</td>
<td>General Education analytical reasoning course</td>
<td>3</td>
<td>(X) 1st (X) 6th</td>
</tr>
<tr>
<td>Arts (3 hrs.)</td>
<td>General Education arts course</td>
<td>3</td>
<td>(X) 1st (X) 6th</td>
</tr>
<tr>
<td>Humanities (9 hrs.)</td>
<td>General Education humanities course</td>
<td>3</td>
<td>(X) 1st (X) 6th</td>
</tr>
<tr>
<td></td>
<td>General Education humanities course</td>
<td>3</td>
<td>(X) 1st (X) 6th</td>
</tr>
<tr>
<td></td>
<td>General Education humanities course</td>
<td>3</td>
<td>(X) 1st (X) 6th</td>
</tr>
<tr>
<td>Natural Sciences (9 hrs.)</td>
<td>General Education natural science course sequence</td>
<td>6</td>
<td>(X) 1st (X) 6th</td>
</tr>
<tr>
<td>(If 2 course sequence is taken in the physical sciences, the additional 3 hour course must be from the life sciences, and vice versa.)</td>
<td>General Education natural science course</td>
<td>3</td>
<td>(X) 1st (X) 6th</td>
</tr>
<tr>
<td>Social Sciences (6 hrs.)</td>
<td>General Education social science course (2000-level)</td>
<td>3</td>
<td>(X) 1st (X) 6th</td>
</tr>
</tbody>
</table>
RECOMMENDED WORDING FOR GENERAL EDUCATION REQUIREMENTS

Departments and programs should employ the following wording where possible to ensure consistency across curricula in the description of General Education requirements.

* If 2 course natural science sequence is taken in the physical sciences, the additional 3 hour natural science course must be from the life sciences, and vice versa.

<table>
<thead>
<tr>
<th>English Composition</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001 or 1004</td>
<td>3</td>
</tr>
<tr>
<td>English 2000</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Natural Sciences</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>General education natural science course</td>
<td>6</td>
</tr>
<tr>
<td>General education natural science course*</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Sciences</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>General education social science course</td>
<td>3</td>
</tr>
<tr>
<td>General education social science course (2000-level)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Analytical Reasoning</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>General education analytical reasoning course (from mathematics department)</td>
<td>3</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Humanities</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>General education humanities course</td>
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</tr>
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<td>3</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Arts</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
</tbody>
</table>
Instructions for Form E: Adding, Changing, Suspending or Dropping a Concentration

One original copy of each request must be submitted.

All questions must be answered. The proposal will be delayed until the form is filled out completely and accurately.

The department should consider the length of time necessary to obtain final approval. Substantive changes can require as long as 18 months before official implementation. Thus, requests should be submitted early enough to obtain final approval before the desired effective date. Changes to concentrations generally take effect with the publication of the next General Catalog.

Dates of departmental and college approval of the proposal must be recorded. The Faculty Senate Courses and Curricula Committee will not consider proposals that have not been approved by college/departmental courses and curricula committees. In addition, any other division of the University that might be affected by the concentration change must be consulted. The affected unit must be invited to submit a written response; such response will be weighed by the Faculty Senate Courses and Curricula Committee in its deliberations.

a. Adding a New Concentration

A concentration is an intensive study of a subject within the major field (usually 30 percent of the major requirements). The entire (eight-semester) recommended path, by semester, must be typed on plain sheets and attached to Form E. A brief justification for adding the concentration must be attached to Form E.

b. Changing an Existing Concentration

Regardless if all semesters of a concentration are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use **boldface** to designate changes as **boldface** is reserved for critical requirements within the recommended path. Indicate the present and proposed total semester hours. Departments must give an adequate explanation for the requested changes on a separate sheet attached to Form E. (Changes in the curriculum must be submitted on Form D.)

c. Suspending a Concentration

A brief explanation for the suspension must be attached to Form E. When a concentration is suspended, students already in the concentration are allowed to finish. No new students, however, will be admitted.

Requests to reactivate suspended concentrations must be made by submitting a Form E to the Faculty Senate Courses and Curricula Committee. Indicate on Form E that a suspended concentration is to be reactivated rather than a new concentration added. If a significant amount of time has passed since the suspension, departments must check the current General Catalog carefully to ensure that the program meets all current requirements and that no required courses have been dropped.

[Instructions for Form E continue on next page]
d. Dropping a Concentration
A brief explanation for the drop must be attached to Form E. When a concentration is dropped, students already in the concentration are allowed to finish. No new students, however, will be admitted.

Form D Addendum · General Education Requirement

When a department adds a new concentration or makes changes in an existing one, a Form D Addendum must also be submitted. This form is simply a list of those courses in the concentration that satisfy the general education requirement.
CRITICAL REQUIREMENTS

SEMESTER 1: "C" or better in ENGL 1001 and GEOL 1201; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: "C" or better in CHEM 1201 and GEOL 1202; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: "C" or better in BIOL 1201 and MATH 1550; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: "C" or better in GEOL 2061/GEOL 2081 and PHYS 1201; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: "C" or better in GEOL 3032/GEOL 3041; 2.0 Cumulative, LSU and Semester GPA.
Recommended as preparation for a career in environmental geology and related fields or entrance to graduate study.

Semester 1

- CRITICAL: "C" or better in ENGL 1001 and GEOL 1201; 2.0 Cumulative, LSU and Semester GPA.
- CHEM 1201 General Chemistry I (3)
- ENGL 1001 English Composition (3)
- GEOL 1201 Principles of Geology I (4)
- MATH 1550 Analytic Geometry and Calculus I (5)

Total Semester Hours: 15

Semester 2

- CRITICAL: "C" or better in CHEM 1201 and GEOL 1202; 2.0 Cumulative, LSU and Semester GPA.
- CHEM 1202 General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2)
- GEOL 1202 Principles of Geology II (4)
- MATH 1552 Analytic Geometry and Calculus II (4)
- BIOL 1201 Biology for Science Majors I (3)

Total Semester Hours: 16

Semester 3

- CRITICAL: "C" or better in BIOL 1201 and MATH 1550; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
- BIOL 1202 Biology for Science Majors II (3)
- PHYS 1201 General Physics for Physics Majors (4)
- PHYS 1208 General Physics Laboratory for Physics Majors (1) or PHYS 2108 Introductory Physics Laboratory (1)
- General Education course—Social Sciences (3)
- First Course in Foreign Language Sequence (4)

Total Semester Hours: 15

Semester 4
CRITICAL: "C" or better in GEOL 2061/GEOL 2081 and PHYS 1201; 2.0 Cumulative, LSU and Semester GPA.

ENGL 2000 English Composition (3)
GEOL 2061 History of the Biosphere (1)
GEOL 2081 Mineralogy (4)
PHYS 1202 General Physics for Physics Majors (4)

PHYS 1209 General Physics Laboratory for Physics Majors (1) or
PHYS 2109 General Physics Laboratory (1)
Total Semester Hours: 16

Semester 5

CRITICAL: "C" or better in GEOL 3032/GEOG 3041; 2.0 Cumulative, LSU and Semester GPA.

GEOL 3032 Introduction to Sedimentology and Depositional Environments (4)
GEOL 3041 Igneous and Metamorphic Petrology (4)
General Education course - Humanities (ENGL/HNRS 2000-level) (3)
PHYS 2203 Introductory Modern Physics (3)
Total Semester Hours: 14

Semester 6

GEOL 3071 Structural Geology (4)
General Education course - Social Sciences (2000-level) (3)
General Education course - Humanities (3)
Approved Elective (3)
Total Semester Hours: 13

Semester 7

SUMMER SESSION: Geology Field Camp.

GEOL 3666 Field Geology (6)
Total Semester Hours: 6

Semester 8

Area of Concentration Courses (9)
Approved Electives (6)
Total Semester Hours: 15

Semester 9

Area of Concentration Course (3)
Approved Electives (4)
General Education course - Arts (3)
Total Semester Hours: 10

120 Total Sem. Hrs.
1. Area of Concentration Course: Nine hours of geology electives that must be chosen from GEOL 4023, GEOL 4043, GEOL 4062, GEOL 4081, GEOL 4084, GEOL 4085, GEOL 4164 and GEOL 4182.

2. The following courses are useful free electives in environmental geology: GEOL 1165, GEOG 4023, GEOG 4011, GEOG 4042, GEOG 4070, GEOG 4079, GEOG 4098, GEOG 4098H, GEOG 4098P, CHEM 1150, QCS 3102, ENVS 4xxx, RNR 4025 and RNR 4900.
PROPOSED REQUIREMENTS

Environmental Geology

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and GEOL 1201; 2.0 Cumulative, LSU and Semester GPA.
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SEMESTER 3: “C” or better in BIOL 1201 and MATH 1550 and CSC 1240; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in GEOL 2081 and PHYS 1201; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: “C” or better in GEOL 3032/GEOL 3041; 2.0 Cumulative, LSU and Semester GPA.

Recommended as preparation for a career in environmental geology and related fields or entrance to graduate study.

Semester 1

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- CHEM 1201 General Chemistry I (3)
- ENGL 1001 English Composition (3)
- GEOL 1201 Principles of Geology I (4)
- MATH 1550 Analytic Geometry and Calculus I (5)

Total Semester Hours: 15

Semester 2

- CRITICAL: “C” or better in CHEM 1201 and GEOL 1202; 2.0 Cumulative, LSU and Semester GPA.
- CHEM 1202 General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2)
- GEOL 1202 Principles of Geology II (4)
- MATH 1552 Analytic Geometry and Calculus II (4)
- BIOL 1201 Biology for Science Majors I (3)

Total Semester Hours: 16

Semester 3

CRITICAL: “C” or better in BIOL 1201, MATH 1550, and CSC1240; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

- CSC1240 Statistics and Graphics with MATLAB (3)
- **BIOL 1202** Biology for Science Majors II (3)
- **PHYS 1201** General Physics for Physics Majors (4)
- **PHYS 1208** General Physics Laboratory for Physics Majors (1) or
- **PHYS 2108** Introductory Physics Laboratory (1)
- First Course in Foreign Language Sequence (4)

Total Semester Hours: 15

---

**Semester 4**

- **CRITICAL:** "C" or better in **GEOL 2081** and **PHYS 1201**; 2.0 Cumulative, LSU and Semester GPA.
- **ENGL 2000** English Composition (3)
- **GEOL 2081** Mineralogy (4)
- **PHYS 1202** General Physics for Physics Majors (4)
- **PHYS 1209** General Physics Laboratory for Physics Majors (1) or
- **PHYS 2109** General Physics Laboratory (1)
- General education social science course (3)

Total Semester Hours: 15

---

**Semester 5**

- **CRITICAL:** "C" or better in **GEOL 3032/GEOL 3041**; 2.0 Cumulative, LSU and Semester GPA.

- **GEOL 3032** Introduction to Sedimentology and Depositional Environments (4)
- **GEOL 3041** Igneous and Metamorphic Petrology (4)
- General Education course - Humanities (ENGL/HNRS 2000-level) (3)
- **PHYS 2203** Introductory Modern Physics (3)

Total Semester Hours: 14

---

**Semester 6**

- **GEOL 3061** Evolution of the Biosphere (4)
- **GEOL 3071** Structural Geology (4)
- General Education course - Social Sciences (2000-level) (3)
- General Education course - Humanities (3)

Total Semester Hours: 14
Semester 7

- SUMMER SESSION: Geology Field Camp.
- GEOL 3666 Field Geology (6)

Total Semester Hours: 6

Semester 8

- Area of Concentration Courses (9)<sup>1</sup>
- Free Electives (6)

Total Semester Hours: 15

Semester 9

- Area of Concentration Course (3)<sup>1</sup>
- Free Electives (4)
- General Education course - Arts (3)

Total Semester Hours: 10-12

120 Total Sem. Hrs.

---

<sup>1</sup> - Area of Concentration Course: Twelve hours of geology electives that must be chosen from GEOL4020, GEOL 4023, GEOL 4043, GEOL 4062, GEOL 4081, GEOL 4084, GEOL 4085, GEOL4150, GEOL 4164 and GEOL 4182
July 7, 2017

To: College and Campus Curriculum Committees
From: Carol Wicks on behalf of G&G faculty
Re: Justification for changing ENVIR GEOL concentration

We are seeking to add two courses to the Environmental Geology concentration – CSC1240 and GEOL3061. We are also requesting to remove one course GEOL2061. We also need to adjust the number of free electives that students may complete so that the degree plan remains at 120 credit hours.

The addition of CSC1240, a general education course offered by Computer Science, will expose geology students to statistics, to MATLAB, and to scientific graphing. This course meets the needs of the second-year GEOL students as they will gain knowledge and skills that they will use throughout the rest of their BS degree.

*CSC 1240 Statistics and graphics with MATLAB (3)  
This is a General Education course. Prereq.: MATH 1021 or placement in MATH 1022, MATH 1023, MATH 1431, MATH 1550 or MATH 1551. Credit will not be given for both this course and CSC 2262 or CSC 2533 or OCS 2011. Not for degree credit for computer science majors. 2 hrs. lecture; 2 hrs. lab.  
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