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LSC Use 316

OCT 2 1964

TO: SAC, NEW YORK (100-100000)

FROM: SAC, PHOENIX (100-100000)

SUBJECT: [Illegible]

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II. DESCRIPTION OF THE CURRICULUM CHANGE

1. New Syllabi of Record

Two syllabi of record are attached for the new course sequence GS 101/102 The Dynamic Earth

GS 101 The Dynamic Earth

I. Catalog Description:

GS 101 The Dynamic Earth 3 credits
3 lecture hours
Prerequisites: No Geoscience Majors/Minors (3c-01-3sh)

Examines the constant changes that affect the rocky surface of our planet. From volcanic

C. The endless cycle (9 hours)

1. The rock cycle: igneous, sedimentary and metamorphic rocks

2. Igneous rocks close-up

Volcanoes versus plutons

Where does magma come from?

Plate tectonic controls

~~3. Sedimentary rocks close-up~~

Erosion and weathering

Sediments on land: deserts, rivers, deltas and beaches

Sediments at sea: reefs, turbidites, deep-sea muds

~~4. Metamorphic rocks close-up~~

Pressure versus temperature

Plate tectonic controls

D. Dance of the continents (7 hours)

1. Evolution of the earth's major continents

Archean micro-plates

Proterozoic and later supercontinents

Recent plate motions

Mammals and birds

G. ... no prospect of an end? (5 hours)

1. Climate change

Ice ages & greenhouse times

Human impact on climate change

2. Earth and space resources

Energy resources: renewable and otherwise

Genetic resources and the current mass extinction

1001 THE P. B. BROWN COMPANY, 110 WEST BROADWAY, NEW YORK, N. Y.

GS 102 The Dynamic Earth Lab

GS 102 The Dynamic Earth Lab

1 credit

2 lab hours

Pre-requisite: No Geoscience Majors/Minors

(0c-2l-1sh)

Introduces students to the techniques geologists use to study the earth and reconstruct its past. Labs cover minerals, rocks, map interpretation, fossil identification. Includes field trips during the scheduled lab period.

II. Course Objectives

- 30% Quizzes. Eight ten-point quizzes will cover previous week's lab or field trip.
- 70% Two non-cumulative lab exams, worth one-hundred points each. Exams will consist of sample identification, short essay and map-based questions. Tests will

Primary

fulfilling the **Interdisciplinary Studies** science requirement. Students may take any two of the three Introductory Geoscience courses to fulfill the science requirement.

The new three-semester **Introduction to Geoscience** sequence functionally replaces the old two-semester **Earth Science** sequence. **Earth Science** is being discontinued and converted to an introductory geoscience education majors only. **Introductory**

and

Earth Science will be dropped.

Students of the course sequence

This is not a variable-credit course.

A more detailed description of the course type is provided

B3: Seats in this course will be made available to students from Continuing Education.

Section C: Implementation

C1: No additional faculty resources are required to teach this course sequence. As shown in the overview discussion of faculty resources, the faculty contact hours needed to teach GS 101/102, as well as GS 103/104 and GS 105/106, will be obtained primarily from the conversion of our existing introductory science courses to majors only (ie, much smaller) sections. The two additional hours needed to teach the new schedule will be obtained from alternate-year rotation of upper-level majors courses. The number of class preps in the department does increase, but will be accommodated through careful scheduling.

change, the number of lab seats will be decreased slightly. Please see the course package overview for a detailed discussion of this change.

C2: The department has sufficient lecture and lab space to accommodate this new course. [Lecture and lab space previously used for the non-major portions of the old Earth Science and

Section 1: Course description

Section 1: Course description

Section 2: Course description

Section 3: Course description

Section 4: Course description

Liberal Studies Course Approval Form

Use this form only if you wish to have a course included in a Liberal Studies Learning

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LIBERAL STUDIES COURSE APPROVAL, PARTS 1-3: GENERAL INFORMATION CHECK-LIST

I. Please indicate the LS category(ies) for which you are applying:

LEARNING SKILLS:

First Composition Course Second Composition Course
 Mathematics

KNOWLEDGE AREAS:

Humanities: History Fine Arts
 Humanities: Philos/Rel Studies Social Sciences
 Humanities: Literature Non-Western Cultures
 Natural Sci: Laboratory Health & Wellness
 Natural Sci: Non-laboratory Liberal Studies Elective

GS 101/102
GS 101

II. Please use check marks to indicate which LS goals are primary, secondary, incidental, or not applicable. When you meet with the LSC to discuss the course, you may be asked to explain how

Prim Sec Incid N/A

A. Intellectual Skills and Modes of Thinking:

1. Inquiry, abstract logical thinking, critical analysis, synthesis, decision making, and other aspects of the critical process

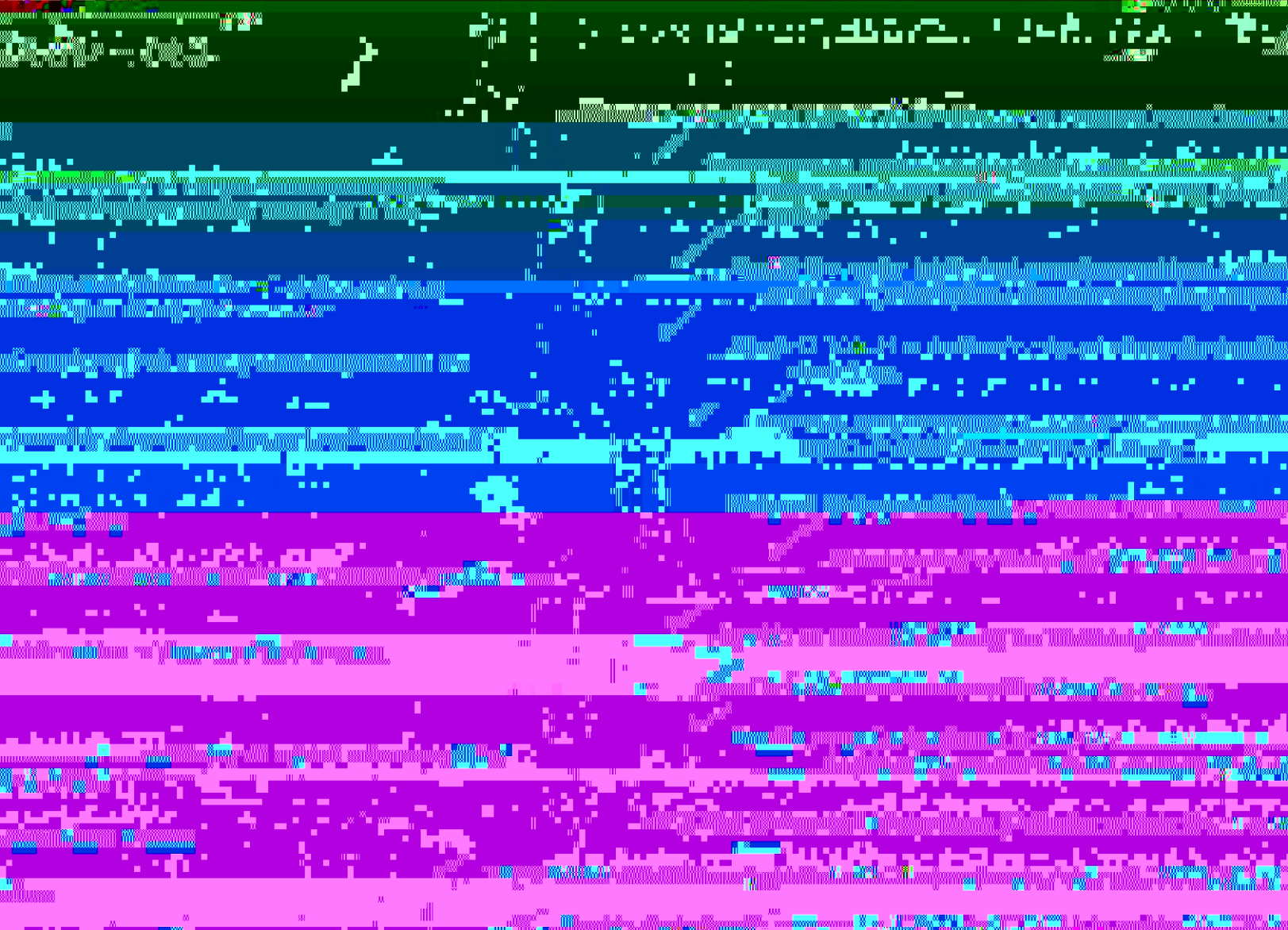
Liberal Studies Approval Parts 4-6

IV. Liberal Studies Questions

A. When GS 101 The Dynamic Earth is first taught, the lecture section will be handled by a single professor who will be responsible for organizing course content, collecting and documenting visual media, and developing the initial exams and quizzes. In later semesters, this instructor will be responsible for orienting any other faculty who are assigned to teach the course, and will share with them her outlines, notes and library of supporting media. She will also share sample exam questions, to ensure that all sections provide uniform and fair evaluation of the students.

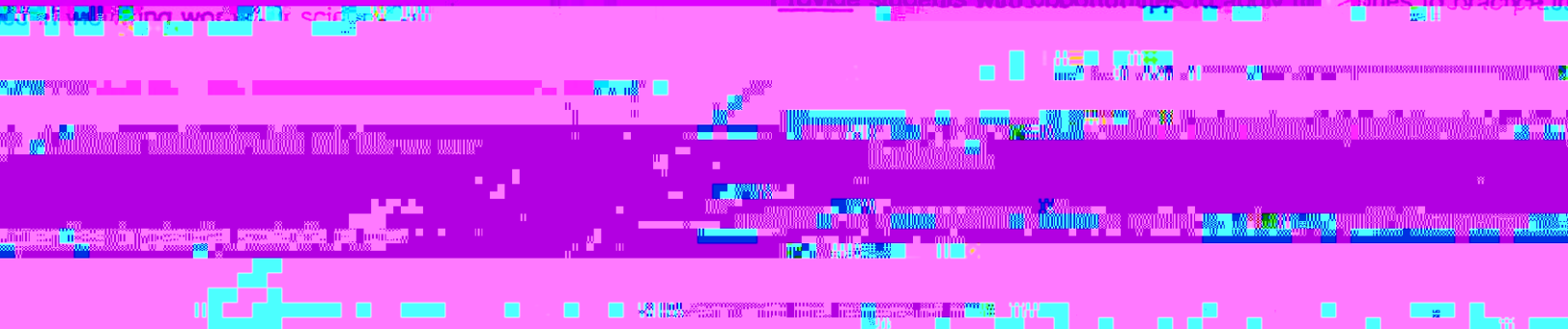
When GS 102 The Dynamic Earth Lab is first taught, several faculty members will coordinate and share the work of developing and maintaining the lab. They will

common course-pack, coordinate lab schedules, share lab materials and meet on a biweekly basis



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conce a and p n a r e n e s

Provide students with opportunities to apply their knowledge to practice in



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CHECK LIST - NATURAL SCIENCES IN ...

14/7

... concepts, themes and events in sufficient detail to enable students to appreciate the

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