

SECTION I. COURSE SUBMISSION INFORMATION

OR 6# 12330

5. Rationale for changes:

1. Department Review (To be completed by department chair; if recommendation is no, initial and return to preparer with rationale attached.)

2. **Division Review** (To be completed by division dean; if recommendation is no, initial and return with rationale attached.)

Will significant new resources be required? ☐ yes ☒ no (If yes, have they been secured? ☐ yes ☐ no)

Is this a curricular priority for your division? ☒ yes ☐ no (Comment _____)

What is your estimate of projected enrollment? large potential pop (elem & middle school teachers)

Recommendation ☒ Yes ☐ No M. Snows 8/22/01

Division Dean's Signature Date

3. **Curriculum Committee Review** (Attach additional comments if necessary.)

Recommendation ☒ Yes ☐ No P. Cygnar for Ruth Hatcher 9/20/01

Curriculum Committee Chair's Signature Date

4. Vice President for Instruction and Student Services Approval (Attach additional comments if necessary.)

Approval ☒ Yes ☐ No Gary Albano 2/20/01
Vice President's Signature Date

Log File _____ ACS Code 115 Catalog File Date 4/3/02 Access Date _____
Core Elements Approved _____ Banner New Syllabus Date 3/01/09

WASHTENAW COMMUNITY COLLEGE
COURSE-SYLLABUS APPROVAL FORM (CSAF)

SECTION III. COURSE SYLLABUS

For help screens, select a field and press F1.

A. COURSE DETAILS (discipline # and title will automatically be entered in 1 and 2 below upon saving or previewing)

1. Course Discipline & No.: <u>GLG 289</u>		2. Course Title: <u>Dinosaurs for Educators</u>	
3. Course Description: This course is designed for future and present teachers to review definitions, old myths and new dinosaur theories. Dinosaur bones and other fossils will be used to understand the evolution, extinction and behavior of dinosaurs. Students will evaluate dinosaur related products, write lesson plans, make a presentation and learn how to clean and prepare dinosaur bones. Field trips are required.			
4. Credit Hours: <u>3</u> If Variable credit, Give Range: _____ to _____ If repeatable for credit, how many times? _____		5. Class Capacity: <u>30</u> (If nonstandard, attach Class Capacity Exception form.)	
		6. Course Options: ☐ Distance learning (Attach preliminary distance approval form and Section Handout.) ☐ Honors (Complete Part G.) ☐ P/NP Grading (Attach rationale.)	
7. Contact Hours per Semester in: Lecture: <u>45</u> Lab: _____ Clinical: _____ Experiential: _____ Total Contact Hrs: <u>45</u>		8. Prerequisite(s): <u>GLG 202</u> _____ _____	
		9. Corequisite(s): (limit to 2) _____ _____	
10. a. Course Purpose: ☒ Program Specialty ☐ Program Support ☐ Nonprogram Specialty ☐ Transfer ☐ Enrichment ☐ Basic Skills		b. Is this course a requirement for a program? ☐ Yes (specify the program(s) below) _____ ☒ No	
		c. Indicate schools to which you want Curriculum Services to send syllabus: (If transfer is approved, attach documentation.) ☒ EMU - <u>GESL 000 (3cred)</u> ☒ UM ☒ Other <u>MSU GL elective credit</u>	

B. MAJOR INSTRUCTIONAL UNITS A major instructional unit is a grouping of topics that naturally relate to one another. List in order the major instructional units. Add additional numbers as needed.

1. Dinosaur Hunters
2. Evolution, Phylogeny and Classification
3. Fossils, Sedimentary Environments and Geologic Time
4. The Origin of Dinosaurs
5. Theropod Dinosaurs
6. Sauropod Dinosaurs
7. Ornithischian Dinosaurs
8. Hot Blooded vs. Cold Blooded Dinosaurs
9. Dinosaurs and Birds
10. Dinosaur Extinction Theories
11. Writing Lesson Plans
12. Presenting Dinosaur Lessons to the Class

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D. INSTRUCTIONAL OBJECTIVES AND CORE ELEMENTS SUPPORTED

DIRECTIONS: (These Units should match those listed in Section B.) Use student outcome based language. (Example: The student will develop and support a thesis in an essay.) If the objective is being used to directly support a core element, write the core element number in the box to the right. If needed, additional information on how the core element is to be met and/or assessed for accomplishment can be included under the objective. If desired you may add a section of "overall course objectives" which are not associated with a specific unit. This may be particularly helpful for addressing core elements.

Unit Objectives**Core Elements**

- # 1 Given an outline, students will be able to design and construct a lesson plan and present it to the class.
- # 2 Given a chart of prehistoric animals, students will be able to distinguish dinosaurs from non-dinosaurs and provide two reasons for their distinction.
- # 3 When given a model set of dinosaur bones, students will be able to reconstruct the skeleton, label all the bones, determine the order, family, genus and species of the dinosaur and specify whether it was an herbivore or carnivore.
- # 4 When provided an outline with examples, students will be able to evaluate classroom related materials for scientific accuracy.
- # 5 Given artificially created dinosaur trackways, students will use them to mathematically calculate the speed and length of bipedal and quadrupedal dinosaurs.
- # 6 Using a circle compass, protractor and ruler, students will be able to determine the percentage of stereovision in humans and to determine which dinosaurs had stereo or nonstereovision.
- # 7 Given a set of dinosaur physical traits, students will organize and classify the traits into proper scientific orders, sub orders and genera.
- # 8 When given models of dinosaurs made to a scale of 1:40, students will be able to mathematically calculate the actual weight, length and height of them.
- # 9 After reading books, articles and viewing a film, students will be able to compare and contrast the evidence for cold-blooded vs. warm-blooded dinosaurs, the dinosaur-bird connection and the causes for dinosaur extinction.
- # 10 Given a list of Greek and Latin root words, students will interpret dinosaur names into English and use the list to create new names. They will also describe the criteria used to name dinosaurs.
- # 11 Given fossils from various geologic time periods, students will organize by age, sketch, identify and classify them according to the five types of fossil preservation.
- # 12 After collecting fossils on a field trip, students will correctly identify and classify them.
- # 13 Students will be able to identify twenty-four different dinosaurs with 80% accuracy.
- # 14 Students will visit a museum and complete a dinosaur related report.

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E. INSTRUCTIONAL METHODS AND EVALUATION**1. Instructional Methods:** (Check the appropriate boxes and describe as needed.)

- | | |
|--|--|
| ☒ Lecture/Discussion _____ | ☒ Field Trips 1) UM Exhibit Museum,
2) Fossil Excursion _____ |
| ☐ Clinical Instruction _____ | ☐ Team Assignments _____ |
| ☐ Self-Paced Learning _____ | ☐ Telecourse _____ |
| ☐ Internet Instruction _____ | ☐ Video Seminar _____ |
| ☐ Computer Simulations _____ | ☒ Laboratory Assignments _____ |
| ☐ On-Site Work Experience _____ | ☐ Interactive TV _____ |
| ☐ Other _____ | |

2. Evaluation Criteria:

- | | |
|--|---|
| ☐ Attendance _____ | ☒ Quizzes _____ |
| ☐ Class Discussion _____ | ☒ Tests _____ |
| ☐ Papers _____ | ☐ Midterm _____ |
| ☐ Portfolio _____ | ☐ Final Exam _____ |
| ☒ Projects _____ | ☐ Home Work _____ |
| ☒ Reports _____ | ☒ Presentations _____ |
| ☐ Clinical/Work _____ | ☐ Performances _____ |
| ☐ Other _____ | |

3. Attendance Requirements: (For Certification or nonevaluative purposes.)

Attendance is mandatory

F. EQUIPMENT, FACILITIES, TEXTS, MATERIALS, AND SUPPLIES**1. Special Equipment/Facilities :** (Check the appropriate boxes and describe as needed.)

- | | |
|--|--|
| ☒ Lab equipment _____ | ☒ Testing Center _____ |
| ☐ LRC Reserves _____ | ☐ Student Competitions _____ |
| ☒ Computers _____ | ☐ Off-Campus Sites _____ |
| ☐ CD ROM _____ | ☐ Student Tutors _____ |
| ☒ Field Trips College vehicles _____ | ☐ Distance Learning Classroom _____ |
| ☐ Other _____ | |

**WASHTENAW COMMUNITY COLLEGE
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Title: Dinosaurs, The Textbook 3rd Ed. (Required)
 Author: Spencer Lucas Copyright Yr: 2000
 Publisher: McGraw-Hill Est. Cost: \$70

Title: Dinosaurs for Educators Course Pack (Required)
 Author: Dave Thomas Copyright Yr: Current
 Publisher: Dave Thomas Est. Cost: \$15

Title: The Dinosaur Data Book (Recommended)
 Author: The Diagram Group Copyright Yr: 1991
 Publisher: Gramercy Books Est. Cost: \$12

Title: Investigating Science with Dinosaurs (Recommended)
 Author: G. Munsart Copyright Yr: 1993
 Publisher: Teacher Ideas Press Est. Cost: \$20

Title: _____
 Author: _____ Copyright Yr: _____
 Publisher: _____ Est. Cost: _____
 Other Texts: _____

3. Supplies and/or Uniforms Student will have to Own or Acquire for Course:

(e.g. calculators, uniforms, tools, and software, etc., excluding pen, pencil, paper, or textbooks.)

Descriptions	Cost Estimates
_____	_____
_____	_____
_____	_____

4. Reference Materials Students Will Use:

(e.g. journals, books, manuals, maps, LRC reserves, etc.)

Maps, LRC

5. Audio/Visual and Computer Materials Students Will Use:

(e.g. films, video tapes, slides, audio tapes, software, CDs, etc.)

Title	Source
Video 1) "rex-files: SUE"	Black Hills Institute
2) Eyewitness Dinosaur	Doring-Kindersley
3) Great Dinosaur Hunt	Public Television
_____	_____
_____	_____
_____	_____



EASTERN MICHIGAN UNIVERSITY

September 5, 2002

Lisa Nelson
Washtenaw Community College
4800 East Huron River Drive
P.O. Box D-1
Ann Arbor, MI 48106-1610

Dear Lisa,

I wanted to make a clarification regarding the transfer of GLG 289 Dinosaurs for Educators. This course transfers to EMU as ESSC 000 (General Earth Science Credit). However, this course cannot count in place of any required or elective course in Geology/Geography Department programs.

As always, feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "Carol Evans".

Carol Evans
Transfer Equivalency Evaluator

Sent: 10/19/01



WASHTENAW COMMUNITY COLLEGE

Course Transfer Agreement

The Washtenaw Community College course listed below is being submitted for review for equivalency credit. Please review the attached syllabus and complete all of the items below indicating if the course is approved for equivalency credit.

Course Number & Name: GLG 289 Dinosaurs for Educators

Credits: 3

is ☒ is not ☐ approved for transfer at Eastern Michigan University

The course above will transfer as General Transfer Credit 3
Course Name Credit Hours

Please describe what type of course this will transfer as:

(GESC 000)

☐ A Basic Skills Course

☒ A General Elective Course

☐ Other, Please explain: _____

Approved by:

Registrar/Director of Student Records/Credit Evaluator

1/4/01
Date

Please return to:
Curriculum & Articulation Services, SC 234
Washtenaw Community College
4800 East Huron River Drive
PO Box D-1
Ann Arbor, MI 48106-1610

REgarding GLG 289

Add: Transfer Notebook +
syllabus file.
(mark on Syllabus)

Subject: REgarding GLG 289

Date: Fri, 9 Nov 2001 13:34:51 -0500

From: "Karen O'connor" <adem12@pilot.msu.edu>

Organization: MICHIGAN STATE UNIVERSITY ENROLLMENT SERVICES

To: <pcygnar@wccnet.org>

Dear Ms. Cygnar,

I have granted 3 GLG gcu (elective) Michigan State University credits for your GLG 289 course "Dinosaurs for Educators".

Hope this helps!

Thanks,

Karen O'Connor

MSU