ANTH 491 Zooarchaeology-NewCrs-2015-10-26

Form Information

First Step: Change the text in the [brackets] so it looks like this: CRIM 101 Intro to Criminology-NewCrs-2015-08-10

Second Step: Click save on bottom right

Third Step: Make sure the word "DRAFT" is in yellow at the top of the proposal

Fourth Step: Click on EDIT CONTENTS and start completing the template. When exiting or done, click save on bottom right

When ready to submit click on the workflow icon and hit approve. It will then move to the chair as the next step in the workflow.

Please direct any questions to curriculum-approval@iup.edu

*Indicates a required field

Proposer*

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Proposer Email*

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Contact Person*

Sarah W. Neusius

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Proposing Department/Unit*

Anthropology

Contact Phone*

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(A) Course Prefix*

See the Registrar's List of Unavailable Course Numbers at http://www.iup.edu/WorkArea/linkit.aspx?

LinkIdentifler=id&ItemID=129323

ANTH

(B) Course Number*

If Dual Listed, enter both course numbers

491/591

(C) Course Title*

Zooarchaeology

(D) Course

graduate-level

Level*

undergraduate-level

(E) Cross Listed*

Dual Listed = Courses listed at two levels, such as undergraduate and graduate, masters and

doctoral, etc. Cross Listed = Course has more than one prefix such as GEOG/RGPL 233

NO

If YES, with:

(F) Variable Credit*

NO

If YES, enter the number of credits:

(G) Variable Title*

NO

If YES, enter the title(s):

(H) Number of Credits*

Class Hours:3 Lab Hours:0 Credits:3

(i) Prerequisite(s)

none

(J) Co-requisite(s)

This means that another course must be taken in the same semester as the proposed course

(K) Additional Information

Check all that apply. Note: Additional documentation will be required

* Teacher Education: Please complete the Teacher

Education section of this form (below)

* Liberal Studies: Please complete the Liberal Studies

section of this form (below)

* Distance Education: Please complete the Distance

Education section of this form (below)

Recommended Class Size

YES

Number (Enter Zero if No):24

If YES: (Check one of the following reasons and provide a narrative explanation)

Physical Limitation of Classroom

Explain (required):

Class size is limited by the space necessary for handling and studying specimens.

(M) Catalog Description*

Guidelines: Do not include pre/co-requisite information here. The registrar prefers a concise description of course content, beginning with an active verb.

Introduces the archaeological specialty of zooarchaeology, which is the study of human-animal interactions through the analysis of archaeological remains from archaeological sites. Explores the basics of vertebrate osteology through lectures and hands-on exercises as well as the nature of various types of zooarchaeological interpretation such as studies of hunting and butchering practices, dietary importance, seasonality, domestication, paleopathology and past environment.

(N) Student Learning Outcomes*

These should be measurable, appropriate to the course level, and phrased in terms of <u>student</u> achievement, not instructional or content outcomes

If dual listed, indicate additional learning objectives for the higher level course.

Students in this course will be able to

- describe the nature of zooarchaeological analysis and why it is important within modern archaeology.
- 2) demonstrate beginning skills in the identification of animal bone and shell with emphasis on mammalian remains.
- 3) process, sort and label a comparative skeleton for zooarchaeological study
- evaluate the usefulness of zooarchaeological reports in archaeology and other types of environmental science

Besides meeting these objectives, graduate students in this course will additionally be able to

- 1) quantify zooarchaeological data using standard zooarchaeological methods and
- 2) integrate these types of data into archaeological reports.

(O) Brief Course Outline*

Give an outline of sufficient detail to communicate the course content to faculty across campus. It is not necessary to include specific readings, calendar, or assignments

As outlined by the federal definition of a "credit hour", the following should be a consideration regarding student work - For every one hour of classroom or

direct faculty instruction, there should be a minimum of two hours of out of class student work.

Introduction: What is zooarchaeology?

History of Zooarchaeology

Taxonomy

Vertebrate and invertebrate anatomy

The function of hard tissues

Vertebrate locomotion

Growth and age of skeletal tissues

All Students Select A Specimen For Skeletal Processing

Grad Homework 1 - Key terms, Nature of variables, Levels of measurement

The Vertebrate Skull

Features of the vertebrate skull

Variation in the vertebrate skull

Fish skulls and scales

Skeletal Quiz One - Skulls and Scales

Vertebrate teeth

Recognizing different types of mammalian teeth

Skeletal Quiz Two - Teeth

The Axial Skeleton

Bones of the axial skeleton and their features

How does the axial skeleton vary among vertebrates

Skeletal Quiz Three - Axial Skeleton

Grad Homework 2 - Relative Importance of Taxa (NSP, NISP, MNI calculations)

Zooarchaeological Methods I

Comparative collections and zooarchaeology labs

Measurements of the vertebrate skeleton

MIDTERM EXAM

Taphonomic studies in zooarchaeology

Primary Data collection in zooarchaeology

The Pectoral and Pelvic girdles

Features of the pectoral girdle

Features of the pelvic girdle

Variation in the vertebrate pectoral and pelvic girdles

Skeletal Quiz Four - Girdles

Grad Homework 3 - Biomass and Meat Weight, Sampling and Richness, Effects of Recovery Technique

Zooarchaeological Methods II

Secondary data in zooarchaeology

Relative importance of taxa

Body part data

Dietary contribution and niche breadth

The Limbs

Features of the vertebrate forelimbs

Features of the vertebrate hindlimbs

Variation in vertebrate limbs

Skeletal Quiz Five - Forelimbs and Hindlimbs

Features of the manus (fore feet)

Features of the pes (hind feet)

How are fins structured?

Invertebrate structures

Skeletal Quiz Six - Feet and Fins and Invertebrate Structures

Grad Homework 4 - Diversity Measures and Body Part representation (MNE, MAU)

Zooarchaeological Methods III

Age Estimates, Paleopathology and Measurement

Subsistence and Humans as Predators

Domestication of Animals, Urban Zooarchaeology

STUDENT SKELETAL PROJECT DUE

Reconstruction of Past Environments

Applied Zooarchaeology

Digital databases in Zooarchaeology

Course Wrap Up

GRADUATE STUDENT ANALYSIS REPORT DUE

FINAL EXAM

Rationale for Proposal

(P) Why is this Course Being Proposed?*

This course has been taught as one option in ANTH 484/584 Specialized Methods in Archaeology, but since it has been taught on a regular basis for more than a decade, it makes more sense for it to be a stand alone course. In addition, faculty believe the fact that we offer this methods course could be attractive to some quality graduate students considering our Applied Archaeology MA. Under the current system such students cannot tell that we offer Zooarchaeology on a regular basis by examining our course list.

(Q) University Senate Summary of Rationale

Please enter a single paragraph summary/rationale of changes or proposal for University Senate.

This course has been taught as one option in ANTH 484/584 Specialized Methods in Archaeology, but since it has been taught on a regular basis for more than a decade, it makes more sense for it to be a stand-alone course.

(R) How Does it Fit into the Departmental Curriculum?*

Check all that apply

Free Elective

If Other, please explain:

(S) Is a Similar Class Offered in Other Departments?*

NO

Please Provide Comment:

(T)Does it Serve the College/University

NO

Above and

Please Provide Comment:

Beyond the Role it Serves in the Department?*

(U) Who is the Target Audience for the Course?*

Department Elective

Open to Any Student

If Other, please explain:

(V) Implications for Other Departments*	A. What are the implications for other departments?	
	(For Example: overlap of content with other disciplines, requirements for other programs)	
	There is no overlap. The proposed course is archaeology specific.	
	B. How have you addressed this with other department(s) involved? What was the outcome of that attempt?	
	n/a	
(W) Attach Supporting Documents for Implications, if Necessary	File Modified *	
(X) Are the Resources Adequate?*	(i.e. faculty, space, equipment, laboratory supplies, library materials, travel funds, etc.) YES	
	Please Provide Comment:	

Distance Education Section

- Complete this section only if adding Distance Education to a New or Existing Course

If Completing this Section,	
Check the Box to the Right:	
Course Prefix/Number	
Course Title	
Type of Proposal	See CBA, Art. 42.D.1 for Definition
Brief Course Outline	Give an outline of sufficient detail to communicate the course content to faculty across campus. It is not necessary to include specific readings, calendar or assignments As outlined by the federal definition of a "credit hour", the following should be a consideration regarding student work - For every one hour of classroom or direct faculty instruction, there should be a minimum of two hours of out of class student work.

Rationale for Proposal (Required Questions from CBA)

How is/are the instructor(s) qualified			
in the Distance Education delivery			
method as well as the discipline?			
For each outcome in the course, describe			
how the outcome will be achieved using			
Distance Education technologies.			
How will the instructor-student and			
student-student interaction take place?			
(if applicable)			
How will student achievement be evaluated?			
How will academic honesty for tests			
and assignments be addressed?			
Liberal Studies Section			
- Complete this section only for a new Liberal Studies course or Liberal Studies course revision			
If Completing this Sect	ion,		
Check the Box to the R	light:		
Liberal Studies Course	Designations (Check all that apply)		
Learning Skills:			
Knowledge Area:			
Liberal Studies Elective	Please mark the designation(s) that apply - must meet at least one		

Expected Undergraduate Student Learning Outcomes (EUSLOs)	Describe how each Student Learning Outcome in the course enables students to become Informed Learners, Empowered Learners and/or Responsible Learners See http://www.iup.edu/WorkArea/DownloadAsset.aspx?id=181694
(200200)	
Description of the Required	Narrative on how the course will address the Selected Category Content
Content for this Category	
All Liberal	Studies courses are required to include perspectives on cultures and have a supplemental reading.
	Please answer the following questions.
Liberal Studies courses must include	
the perspectives and contributions	
of ethnic and racial minorities and	
of women whenever appropriate to	
the subject matter. Please explain	
how this course will meet this	
criterion.	
Liberal Studies courses require the	
reading and use by students of at	
least one non-textbook work of	
fiction or non-fiction or a collection	
of related articles. Please describe	
how your course will meet this	
criterion.	
Teacher Educatio	n Section
- Complete this sect	tion only for a new Teacher Education course or Teacher Education course revision
If Completing this Section,	
Check the Box to the Right:	
Course Designations:	

Key Assessments

For both new and revised courses, please attach (see the program education coordinator):

- The Overall Program Assessment Matrix
 The Key Assessment Guidelines
 The Key Assessment Rubric

File

Modified *

No files shared here yet.

Narrative Description of the

How the proposal relates to the Education Major

Required Content

For Deans Review

Are Resources Available/Sufficient for this Course?

Is the Proposal Congruent with the College Mission?

Has the Proposer Attempted to Resolve Potential Conflicts with Other Academic Units?

Comments: