

CATALOG INFORMATION

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Dept & Nbr: BIO 257                      Title: ZOOLOGY  
Full Title: Zoology

Units	Course Hours	Per Week	Nbr of Weeks	Course Hours	Total
Max: 5.0	Lecture	3.0	17	Lecture	51.0
Min: 5.0	Lab	6.0		Lab	102.0
	Contact DHR	0.0		Contact DHR	0.0
	Contact Total	9.0		Contact Total	153.0
	Non-contact DHR	0.0		Non-contact DHR	0.0

Title 5 Category: 01 AA Degree Applic  
Grading: GC Credit course for grade or CR/NC  
Repeatability: 00 No repeatability allowed or defined  
Also listed as:

CATALOG DESCRIPTION:

A survey of the major animal phyla, and a comparative study of the relationships between structure, function, behavior and systematics of the major animal groups.

PREREQUISITES:

Completion of MTH 56 (or MTH 120).

RECOMMENDED PREPARATION:

Completion of BIO 250.

LIMITS ON ENROLLMENT:

SCHEDULE OF CLASSES INFORMATION:

Prerequisites: Completion of MTH 56 (or MTH 120).  
Recommended: Completion of BIO 250.  
Biology majors will learn about the structure and function of animals and study factors which influence their abundant distribution on earth. (Grade or CR/NC)  
Transfer Credit: CSU; UC. (CAN BIOL 4)

ARTICULATION and CERTIFICATE INFORMATION

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ASSOCIATE DEGREE:	Effective: FALL	1981	Inactive:
Area: A	NATURAL SCIENCES		
CSU GE:	Effective: FALL	1981	Inactive:
Transfer area: B2	LIFE SCIENCE		
	B3	LAB ACTIVITY	

IGETC: Effective: FALL 1981 Inactive:  
 Transfer area: 5B BIOLOGICAL SCIENCES

CSU TRANSFER: TRANSFERABLE Effective: FALL 1981 Inactive:

UC TRANSFER: TRANSFERABLE Effective: FALL 1981 Inactive:

CAN:  
 BIOL 4 Grp Nbr: 01 Effective: SPRING 1989 Inactive:

CERTIFICATE APPLICABLE: N NOT CERTIFICATE/MAJOR APPLICABLE

#### APPROVAL AND DATES

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Version 02 Submitted by: ALAN WEST Date: 04/27/2005  
 Department approved: Date:  
 Curriculum approved: 06/01/1981 Version approved: 04/22/2005  
 Prerequisites approved: 10/02/2000 Last reviewed: 04/22/2005  
 Term effective: SPRING 2006 Last taught: SPRING 2007 Inactive:

#### COURSE CONTENT

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##### OUTCOME AND OBJECTIVES:

1. Identify animals of importance that are studied in laboratory and field situations.
2. Develop an understanding of the anatomy and physiology of selected animals and the consequential effect of various environmental factors upon them.
3. Know the major groups of animals and their functions.
4. Understand the major heterotrophic metabolic processes of aquatic and terrestrial animals.
5. Develop the fundamental laboratory skills that are essential to further study.

##### TOPICS AND SCOPE:

###### Lecture

1. Introduction
2. Cytology, Histology and Organology
3. Taxonomy
4. Protista
5. Porifera
6. Cnidaria
7. Platyhelminthes Dugesia
8. Platyhelminthes, Clonorchis, Fasciola, Taenia
9. Nematoda, Ascaris, Necator, Trichinella
10. Mollusca
11. Annelida, Lumbricus, Peripatus
12. Arthropoda, Crayfish External
13. Arthropoda, Romalea
14. Arthropoda, Class Insecta
15. Echinodermata
16. Chordata, Amphioxus
17. Chordata, Shark
18. Chordata, Frog

## 19. Chordata, Cat

## ASSIGNMENTS:

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## READING ASSIGNMENTS:

Students will be required to read and study assigned chapters in the textbook as well as assignments from the laboratory manual prior to laboratory experiments. Supplemental reading from selected journal articles and handouts will be assigned. Examples of appropriate recommended reading are: Scientific American; Science; Biological Bulletin; and Journal of Experimental Zoology.

## WRITING ASSIGNMENTS:

Students are required to investigate and complete selected laboratory reports which are submitted to the instructor at the end of each laboratory session. In addition, students are required to successfully complete lecture essay exams.

## OUTSIDE ASSIGNMENTS:

Six hours of independent work must be completed outside of class each week. This work includes studying lecture topics, reviewing and writing laboratory reports, answering questions presented in the textbook, preparing for upcoming laboratories, and preparing for exams.

## ASSIGNMENTS THAT DEMONSTRATE CRITICAL THINKING:

The life science laboratory by its very nature requires critical thinking on the part of the student. Students must analyze laboratory results and demonstrate their understanding by interpreting the results in well-written laboratory reports.

## METHOD OF INSTRUCTION:

Lecture, laboratory assignments, field trips, slide presentations, handouts, reading assignments, laboratory skill demonstrations and class discussion.

## METHODS OF EVALUATION:

1. The total grade for the semester will be comprised of 3/5 for lecture and 2/5 for laboratory.
2. The lecture grade will be based on at least four exams with the total score being the cumulative total of each exam. Each exam will have equal weighting.
3. The laboratory grade will be based on at least three laboratory practical exams and the evaluation of at least ten laboratory reports.

## BASIS FOR GRADING:

The assignment of a grade is based on the level of achievement of the outcomes and objectives of the course outline and is reflected in quantifiable terms in the course syllabus.

## REPRESENTATIVE TEXTBOOKS:

Lecture: Biology of Animals, Hickman et. al.

Laboratory: General Zoology Laboratory Manual, Wodsedalek and Lytle  
10 pieces of biology drawing paper.

## REASON FOR REVISION

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## RESOURCES REQUIRED

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## MISCELLANEOUS

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Advisory generate desc:	Y	YES
Area department:	BIO	BIOLOGICAL SCIENCES
Audit flag:	N	NOT AUDITABLE
Basic skills:	X	NOT BASIC SKILLS
Classification:	A	Liberal Arts and Sciences
Cost level:	01	
Disciplines:		BIOLOGICAL SCIENCES
Division:	02	MERIDITH RANDALL
Faculty service areas:		BIOLOGY
Fee:	\$0.00	
In-service:	X	NOT IN-SERVICE
Level below transfer:	X	NOT APPLICABLE
Matric-requiring:	X	Exempt from assessment
Maximum class size:	0	
Maximum wait list:	0	
Method of instruction:	03	LECTURE/LABORATORY
Non-credit category:	X	NOT APPLICABLE, CREDIT COURSE
Open entry/exit:	N	Not open entry/exit
Pacs activity:	0401	BIOLOGY GENERAL
Pacs program project:	0000	
Preq/coreq generate desc:	Y	YES
Preq/coreq provisional:	N	NO
Preq/coreq reg check:	Y	PREREQUISITE RULES EXIST
Repeat group id:		
Requires instructor sig:	N	INSTRUCTOR'S SIGNATURE NOT REQUIRED
SAM classification:	E	Non-occupational
Selected/special topic:	N	NOT A SELECTED TOPIC COURSE
Special class:	X	NOT A SPECIAL COURSE
TOP code:	0407.00	ZOOLOGY, GENERAL
Workload:	0.0000	