

**VERTEBRATE NATURAL HISTORY
IB 104LF**

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Office hours for faculty and GSIs will be posted on bCourses during week 1. Messages can be left in mailboxes in the front office of the Museum of Vertebrate Zoology (MVZ, 3101 VLSB).

Lecture: Tues, Thurs, 09:30-11:00 in LSA 101. Lab: Wed 1-4 pm, Thurs 2-5 pm, 3095 VLSB.

Required Books:

Sibley, D. A. 2016. *The Sibley Field Guide to the Birds of Western North America: Second Edition*. Alfred A. Knopf.

Stebbins, R. C. and S. M. McGinnis. 2018. *Peterson Field Guide to Western Reptiles and Amphibians*, 4th Edition. Houghton Mifflin Harcourt.

Reid, F. A. 2006. *A Field Guide to Mammals of North America*. Peterson Field Guide Series, 4th edition. Houghton Mifflin Company.

Bowie, R. C. K., J. McGuire, A. Rush, and A. Shabel. 2020. Vertebrate Natural History Laboratory and Field Syllabus for Integrative Biology 104L (sold at Copy Central, 48 Shattuck Square, 848-7034, square@copycentral.com).

Point allocation for the course:

1 mid-term exam	150 pts.
1 final exam (comprehensive)	250 pts.
2 laboratory practical exams (100 pts. each)	200 pts.
1 field notebook (includes 5 pts. for initial assessment)	105 pts.
1 independent field project	150 pts.
1 peer review exercise	25 pts.
12 field trips (+ 10 additional bonus pts. for final field trip)	120 pts.
 Total points possible	 1000 pts.

Laboratory: Please read pages 3-13 in the lab syllabus before the first lab meeting. You may not attend a lab section other than the one to which you have been assigned. If you should miss your lab meeting for a valid reason, see your GSI for a note permitting you to attend the other section.

Field trips: Before the first field trip read pages 116-120 in the lab syllabus. Bring a field notebook to the first field trip (see page 116, #1). Also bring a pen with waterproof black ink. See notebook examples in the

laboratory. The field notebook will be handed in on **February 11** for a progress inspection. It is required that you bring binoculars and a field guide on all trips. 7X-10X power binoculars with coated lenses and center focusing are best for observing birds, but other kinds may be suitable.

ATTENDANCE IS REQUIRED ON THE FIRST 12 FIELD TRIPS AND 10 BONUS POINTS ARE AVAILABLE FOR ATTENDANCE ON THE FINAL FIELD TRIP

Field trips will be held rain or shine so come dressed appropriately. No umbrellas, pets, friends, or relatives are allowed on IB 104 field trips.

Independent field project: One of the most important requirements for this course is a written report on your individual field project. Read pages 120-124 in the lab syllabus before selecting a topic. You must discuss your proposed topic with an instructor and/or GSI. We recommend that you begin these discussions early in the semester. Before beginning the project, turn in a research proposal (pp. 124 in lab syllabus). The proposal is due in your lab on **February 26, 27**. If you intend to study either amphibians or wintering birds, you should obtain early approval; these animals are not usually available for study after mid-March.

The typed report for your independent field project must be understandable without reference to anything else, even your field notes. Do not use library references; the basis for the report must be the original data that you have obtained in the field through your own efforts. You may not use for IB 104LF the same project you have done, or are doing, for another course. No joint projects are allowed, but for reasons of safety we recommend that when possible you conduct your fieldwork with one or more students from the course. **Do not work alone in remote sections of parks or in areas where you feel unsafe.**

YOUR APPROVED RESEARCH PROPOSAL AND ALL FIELD NOTES AND DATA SHEETS PERTAINING TO YOUR PROJECT MUST BE HANDED IN WITH THE TYPED REPORT AT THE END OF THE SEMESTER. GRADES FOR LATE PROJECTS WILL BE SEVERELY REDUCED.

Spring 2020

VERTEBRATE NATURAL HISTORY

IB 104LF

LECTURE			LABORATORY	FIELD
T	Jan 21	Intro/Vertebrate Diversity	Jan 22, 23 Birds	Jan 24, 25 Birds
TH	Jan 23	Birds		
T	Jan 28	Birds	Jan 29, 30 Birds	Jan 31, Feb 1 Birds
TH	Jan 30	Birds		
T	Feb 4	Birds	Feb 5, 6 Birds	Feb 7, 8 Birds
TH	Feb 6	Birds		
T	Feb 11	Birds	Feb 12, 13 Birds	Feb 14, 15 Birds
TH	Feb 13	Birds		
T	Feb 18	Birds	Feb 19, 20 Amphibians	Feb 21, 22 Amphibians
TH	Feb 20	Amphibians		
T	Feb 25	Amphibians	Feb 26, 27 Amphibians	Feb 28, 29 Amphibians
TH	Feb 27	Amphibians		
T	Mar 3	Amphibians	Mar 4, 5 Lab Exam	Mar 6, 7 Mammals
TH	Mar 5	Mammals	(Birds & Amphibs, MVZ tour)	
T	Mar 10	Lecture Exam 1	Mar 11, 12 Mammals	Mar 13, 14 Indiv. Field Proj.
TH	Mar 12	Mammals		
T	Mar 17	Mammals	Mar 18, 19 Mammals	Mar 20, 21 Mammals
TH	Mar 19	Mammals		
T	Mar 24	Spring recess	Mar 25, 26 No labs	Mar 27, 28 No field trips
TH	Mar 26	Spring recess		
T	Mar 31	Mammals	Apr 1, 2 Mammals	Apr 3, 4 Mammals
TH	Apr 2	Mammals		
T	Apr 7	Mammals	Apr 8, 9 Reptiles	Apr 10, 11 General
TH	Apr 9	Mammals		
T	Apr 14	Mammals	Apr 15, 16 Reptiles	Apr 17, 18 Reptiles
TH	Apr 16	Reptiles		(Apr 18 CalDay)
T	Apr 21	Reptiles	Apr 22, 23 Reptiles	Apr 24, 25 Birds
TH	Apr 23	Reptiles	& peer review	(5:30-9:30 am)
T	Apr 28	Reptiles	Apr 29, 30 Lab Exam	May 2-3 Culminating trip
TH	Apr 30	Reptiles	(Mammals & Reptiles)	(8 AM Sat. to 5 PM Sun.)

Field Trip Schedule 2020

Week	Date	Location
1	Jan 24, 25	Birds: Berkeley Aquatic Park
2	Jan 31, Feb 1	Birds: Tilden, Jewel Lake
3	Feb 7, 8	Birds: Arrowhead Marsh
4	Feb 14, 15	Birds: Coyote Hills
5	Feb 21, 22	Amphibs: Briones (Alhambra Vall. Rd.)
6	Feb 28, 29	Amphibs: Briones (Bear Creek Rd.)
7	Mar 6, 7	Mammals: Tilden, Wildcat Canyon
8	Mar 13, 14	<i>Free – Individual Field Projects</i>
9	Mar 20, 21	Mammals: Pt. Pinole
10	Mar 27, 28	<i>Spring Break (no field trip)</i>
11	Apr 3, 4	Mammals: Pt. Reyes
12	Apr 10, 11	General: Del Valle
13	Apr 17, 18	Reptiles: Sunol
14	Apr 24, 25	Birds (dawn chorus): Tilden, Lone Oak
15	May 2-3	General: Hastings (overnight adventure)

Important dates:

Field notebook handed in for preliminary evaluation due: **February 11 in lecture**

Field project proposal due: **in lab on February 26, 27**

Field project submission for peer review due: **in lab on April 22, 23**

Final version of Field Project due 5 pm in front of MVZ: **Friday May 1**

Field notebook final version due 5 pm in front of MVZ: **Friday May 1**

Final Exam: Wednesday May 13 11:30 AM-2:30 PM