University Writing Program

[College of Letters & Science]

Carl Whithaus, Ph.D., Program Director
Program Office, 109 Voorhies Hall
530-752-6283; http://writing.ucdavis.edu

Committee in Charge

Rebekka Andersen, Ph.D.
University Writing Program
Elizabeth Constanile, Ph.D.
(Gender, Sexuality, and Women’s Studies)

Pamela Demory, Ph.D. [University Writing Program]
Daniel Melzer [University Writing Program]
Dana R. Ferris, Ph.D. [University Writing Program]
Sarah Perault, Ph.D. [University Writing Program]
Daniel Potter, Ph.D. [Plant Sciences]
Angie Louise, Ph.D. [BioMedical Engineering]

Christopher J. Thaiss, Ph.D. [University Writing Program]
Carl W. Whithaus, Ph.D. [University Writing Program]

Faculty

Rebekka Andersen, Ph.D., Assistant Professor
Dana R. Ferris, Ph.D., Professor
Sarah Perault, Ph.D., Assistant Professor
Christopher J. Thaiss, Ph.D., Professor
Carl W. Whithaus, Ph.D., Professor

Affiliated Faculty

Sasha Abramsky, M.S., Lecturer
Cynthia J. Bates, M.A., Lecturer
Amy Clarke, Ph.D., Lecturer
Marlene B. Clark, Ph.D., Lecturer
Academic Federation Excellence in Teaching Award
Pamela Demory, Ph.D., Lecturer
Alikki Dragona, Ph.D., Lecturer
Academic Federation Excellence in Teaching Award
Laurie Glover, Ph.D., Lecturer
Scott R. Herrig, Ph.D., Lecturer
Academic Federation Excellence in Teaching Award
Brad J. Henderson, Ph.D., Lecturer
Andy Jones, Ph.D., Lecturer
Jeff Magnin, M.A., Lecturer
David Maisel, M.F.A., Lecturer
Sean McDonnell, Ph.D., Lecturer
Heather Milton, Ph.D., Lecturer
Stephen Magagnini, B.A., Lecturer
Pamela J. Major, Ph.D., Lecturer
James McClory, Ph.D., Lecturer
Don Meisenheimer, Ph.D., Lecturer
John Samnel, Ph.D., Lecturer
Wrye Sentineno, Ph.D., Lecturer
Victor Squilleri, Ph.D., Lecturer
Academic Federation Excellence in Teaching Award
Karma Walltonen, Ph.D., Lecturer

The Program

The University Writing Program (UWP) offers writing courses in the teaching of writing and in composition theory, history, and research. The Designated Emphasis in Writing, Rhetoric, and Composition Studies offers Ph.D. students in affiliated programs the opportunity to prepare for leadership roles in writing research, teaching, and program administration. The UWP also administers the English Composition Examination, an alternative way to satisfy the advanced writing requirement. The UWP publishes an annual anthology of exemplary student writing, Prized Writing, and a journal for writing instructors, Writing on the Edge. The Writing in the Disciplines Workshop Program presents workshops on teaching writing for faculty and TAs and workshops on writing for students. The Writing Ambassadors Program trains advanced undergraduates and places them as interns in K-12 classrooms to improve writing instruction.

Minor Program Requirements:

<table>
<thead>
<tr>
<th>Professional Writing</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>One course from each of the following four groups:</td>
<td></td>
</tr>
<tr>
<td>Group B: University Writing Program 104A, 104B, 104C, 104D, 104E, 104F, 104G, 104H, 104I, 104J, 104K, 104L, 104M</td>
<td></td>
</tr>
<tr>
<td>Group C: Anthropology 110, 120, Classics</td>
<td></td>
</tr>
<tr>
<td>110, Communication 101, 105, 152, Design</td>
<td></td>
</tr>
<tr>
<td>145, 149, English 103, English Language/Linguistics</td>
<td></td>
</tr>
<tr>
<td>UWP 106, English/Science and Technology</td>
<td></td>
</tr>
<tr>
<td>Studies 164, History 101, Philosophy</td>
<td></td>
</tr>
<tr>
<td>137A, 137B, 137C, Technocultural Studies 191, University Writing Program 100, 112A, 120, 121</td>
<td></td>
</tr>
<tr>
<td>Group D: University Writing Program 192 (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Additional units to achieve a total of 20 upper division units</td>
<td></td>
</tr>
</tbody>
</table>

11. Popular Science and Technology Writing (4)

Lecture/discussion—3 hours; discussion—1 hour. Positioning of science and technology in society as reflected and constructed in popular texts. Topics include genre theory, demarcation, rhetorical figures, forms of qualitative and quantitative reasoning, and the epistemic role of popularization in science. GE credit: ArtHum | AH, WE | —W | (W) |

12. Writing and Visual Rhetoric (4)

Lecture/discussion—3 hours; discussion—1 hour. Introduction to writing needs, conventions, and genres in design contexts. Emphasis on applying critical reading, analysis, and writing skills to designed products, such as graphics, visual communications, and clothes, and designed spaces, such as exhibitions and interior architecture. GE credit: ArtHum | AH, VL, WE | —F, W, S | (F, W, S) |

18. Style in the Essay (4)

Lecture/discussion—4 hours. Prerequisite: course 1 or English 3 or the equivalent. Style, language, and structures in the essay. Analyzing style, developing a voice in writing, revising sentences, developing effective paragraphs and arguments, and writing with focus and clarity. GE credit: ArtHum, Writ | AH, WE | —F, W, S, F | (F, W, S) |

19. Writing Research Papers (4)

Lecture/discussion—4 hours. Prerequisite: course 1 or English 3 or the equivalent. Critical reading, analysis, documentation, and writing research-based assignments. Formulation of research questions and development of effective arguments. Reading and writing assignments may focus on a single theme. GE credit: ArtHum, Writ | AH, WE | —F, W, S | (F, W) |

21. Introduction to Academic Reading and Writing for Multilingual Students (4)

Lecture/discussion—4 hours. Pass One placed in the course via the English Language Placement Examination (ELE) offered by the UWP; students receiving scores below 70 are placed in course 21, the first course in the sequence. Reading and writing paragraphs and short multi-paragraph texts for academic purposes. Suitable for students whose primary home language was not English. GE credit: ArtHum, Writ | AH, WE, F | —F, W, S | (F, W, S) |

22. Intermediate Academic Reading and Writing for Multilingual Students (4)

Lecture/discussion—4 hours. Prerequisite: Pass One passed course 21 with C- or better OR a score of 70-79 on the English Language Placement Examination (ELE) offered by the UWP. Reading and writing short multi-paragraph texts for academic purposes. Suitable for students whose primary home language was not English. GE credit: ArtHum, Writ | AH, WE | —F, W, S | (F, W, S) |

23. Advanced Academic Reading and Writing for Multilingual Students (4)

Lecture/discussion—4 hours. Prerequisite: course 22. Pass One passed course 22 with a C- or better OR a score of 80-89 on the English Language Placement Examination (ELE) offered by the UWP. Reading and writing source/research-based texts for academic purposes. Suitable for students whose primary home language was not English. (P/NP grading only). GE credit: ArtHum, Writ | AH, WE | —F, W, S | (F, W, S) |

27. Persuasive Writing for Multilingual Students (4)

Lecture/discussion—4 hours. Prerequisite: course 1 or equivalent. Not open to students with C- (P) or better in courses 101, 102, and 104; class size limited to 15 students. Instruction in analyzing style of persuasive texts, using appropriate vocabulary, and applying English grammatical structures for argumentative purposes. Suitable for multilingual students desiring additional instruction in the linguistic and rhetorical features of persuasive English writing for academic purposes. GE credit: ArtHum, Writ | AH, WE | —F, W, S | (F, W, S) |

92. Internship in Writing (1-12)

Internship—3-36 hours. Prerequisite: course 1 or English 3. Internships in fields where students can practice their skills. May be repeated for credit for a total of 12 units. (P/NP grading only)
98. Directed Group Study (1-5)
Prerequisite: course 1 or English 3 or the equivalent; consent of instructor. May be repeated two times for credit. (P/NP grading only.) GE credit: AH, WE.

99. Special Study for Undergraduates (1-5)
Prerequisite: course 1 or English 3 or the equivalent; consent of instructor. (P/NP grading only.) GE credit: AH, WE.

Upper Division

100. Genre Theory and Professional Writing (4)
Lecture/discussion—3 hours; extensive writing—1 hour. Prerequisite: course 1 or the equivalent; course 10. Introduction to discipline of professional writing. Examination of writing as a social practice, using genre theory as a conceptual framework. Analysis of how genres function rhetorically in specific contexts and how social systems both shape and are shaped by genres. GE credit: AH, WE—W. (W)

101. Advanced Composition (4)
Lecture—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Instruction in advanced principles of expository writing. Writing tasks within and beyond the University. Different writing modes, including narrative, analysis, explanation, argument, critique. GE credit: ArtHum, Wrt|AH, WE—F, W, S. (F, W, S.)

102A. Writing in the Disciplines: Special Topics (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to majors or to students concurrently enrolled in an upper division course in a specific academic discipline or interdisciplinary field. Advanced instruction in writing in that discipline and practice in effective styles of communication. May be repeated one time for credit if taken in conjunction with a different subject-matter course. GE credit: ArtHum, Wrt|AH, WE—F, W, S. (F, W, S.)

102B. Writing in the Disciplines: Biology (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to majors in a biological science or to students concurrently enrolled in an upper division biological science course. Advanced instruction in writing in biology. Not open for credit to students who have completed English 102B. GE credit: ArtHum, Wrt|AH, WE—F, W, S. (F, W, S.)

102C. Writing in the Disciplines: History (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to majors in history or to students concurrently enrolled in an upper division course in history. Advanced instruction in writing in history. GE credit: ArtHum, Wrt|AH, WE—W. (W)

102D. Writing in the Disciplines: International Relations (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to majors in international relations or to students concurrently enrolled in an upper division international relations course. Advanced instruction in writing in international relations. GE credit: ArtHum, Wrt|AH, WE—W. (W)

102E. Writing in the Disciplines: Engineering (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to upper division students in the College of Engineering and to students enrolled in an upper division engineering or computer science course for the major. Advanced instruction in writing in engineering. GE credit: ArtHum, Wrt|AH, WE—F, W, S. (F, W, S.)

102F. Writing in the Disciplines: Food Science and Technology (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to majors in food science and technology and to students concurrently enrolled in an upper division course in food science and technology. GE credit: ArtHum, Wrt|AH, WE—S. (S.)

102G. Writing in the Disciplines: Environmental Writing (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to students with upper division coursework with an environmental focus. Advanced instruction and practice in effective styles of communication in the fields of environmental study, policy, or advocacy. Not open for credit to students who have completed course 102A in the same academic field. GE credit: ArtHum, Wrt|AH, WE—S. (S.)

102H. Writing in the Disciplines: Human Development and Psychology (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to majors and minors or to students concurrently enrolled in an upper division course in Human Development or Psychology. Advanced instruction in writing and practice in effective styles of communication in Human Development and Psychology. Not open for credit to students who have completed course 102A in the same academic field. GE credit: ArtHum, Wrt|AH, WE—F. (F)

102I. Writing in the Disciplines: Ethnic Studies (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to majors and minors in ethnic studies, or students with upper division coursework focusing on race and ethnicity. Advanced instruction in cross-disciplinary writing about race and ethnicity in effective styles of communication. Not open for credit to students who have completed GE credit: ArtHum, Wrt|AH, WE—F. (F)

102J. Writing in the Disciplines: Fine Arts (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to majors or to students concurrently enrolled in an upper division course in Art History, Art Studio, Design, Music, or Theater and Dance. Advanced instruction in writing about the arts and practice in effective styles of communication. Not open for credit to students who have completed course 102A in the same academic field. GE credit: ArtHum, Wrt|AH, WE—F. S. (F, S.)

102K. Writing in the Disciplines: Sociology (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to majors and minors in Sociology or to students concurrently enrolled in an upper division Sociology course. Advanced instruction in writing and practice in effective styles of communication in Sociology and related academic and professional fields. Not open for credit to students who have completed course 102A in the same academic field. GE credit: ArtHum, Wrt|AH, WE—S. (S.)

102L. Writing in the Disciplines: Film Studies (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Open to majors and minors or to students concurrently enrolled in an upper division course in Film Studies, Technocultural Studies, English, American Studies, or any other upper division course that includes the analysis and understanding of film as a medium. Advanced instruction in writing about film and effective styles of communication. Not open for credit to students who have completed course 102A in the same academic field. GE credit: ArtHum, Wrt|AH, WE—W. (W)

102M. Writing in the Disciplines: Community and Regional Development (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or the equivalent; upper division Community and Regional Development majors and minors or upper division students concurrently enrolled in an upper division Community and Regional Development course. Advanced instruction in writing in the Community and Regional Development discipline and practice in effective styles of communication. GE credit: ArtHum | ACGH, AH, WE—S. (S.)

104A. Writing in the Professions: Business Writing (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Effective communication in and for organizations, including businesses (corporations), government agencies, and non-profit organizations. Suitable for students entering careers that require substantial communications, such as management, public relations, and grant writing. GE credit: ArtHum | AH, WE—F, W, S. (F, W, S.)

104B. Writing in the Professions: Law (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Advanced principles of critical thinking, argumentation, and style, with special emphasis on their application in writing for law careers. Suitable for students planning careers in law, business, administration, or management. GE credit: ArtHum, Wrt|AH, WE—F, W, S. (F, W, S.)

104C. Writing in the Professions: Journalism (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Advanced expository writing in the contemporary American classroom. Strongly recommended for teaching credential candidates. GE credit: ArtHum, Wrt|AH, WE—F, W, S. (F, W, S.)

104D. Writing in the Professions: Elementary and Secondary Education (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Advanced expository writing and practice in the contemporary American classroom. Suitable for students engaged in or planning careers in basic or applied research. GE credit: ArtHum, Wrt|AH, WE—F, W, S. (F, W, S.)

104E. Writing in the Professions: Science (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing or enrollment in a graduate science curriculum. Writing abstracts, research proposals, scientific papers, other forms of scientific communication. Presently offered: Primarily for students engaged in or planning careers in basic or applied research. GE credit: ArtHum, Wrt|AH, WE—F, W, S. (F, W, S.)

104F. Writing in the Professions: Health (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or English 3 or the equivalent and upper division standing. Advanced expository writing common in the health professions, emphasizing effective communication between the writer and different audiences. Topics relate to health, disability, and disease. Suitable for students planning careers in professions such as medicine, dentistry, physical therapy, optometry. GE credit: ArtHum, Wrt|AH, WE—F, W, S. (F, W, S.)

104FY. Writing in the Professions: Health (4)
Lecture/discussion—1.5 hours; web electronic discussion—1.5 hours; extensive writing. Prerequisite: course 1 or the equivalent; upper division standing. Advanced expository writing common in the health professions, emphasizing effective communication between the writer and different audiences. Topics relate to health, disability, and disease. Suitable for students planning careers in professions such as medicine, dentistry, physical therapy, optometry. Not
open to students who have taken course 104F. GE credit: ArtHum | AH, WE. —F, W, S, Su. (F, W, S.)
104I. Writing in the Professions: Internships (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 1 or the equivalent; upper-division standing. Advanced instruction in writing for Social Justice, using an interdisciplinary approach combining feminist, critical race, ethnic, cultural, and transnational studies; practice in techniques of research and styles of communication for diverse audiences. Suitable for activists in community organizing, non-profits, politics. GE credit: ArtHum | AH, WE. —W.
104T. Writing in the Professions: Technical Writing (4)
Lecture/discussion—3 hours; extensive writing. Communicating effectively about technology and other technical subjects to varied audiences for varied purposes. Suitable for students entering professions that require communicating technical information to subject matter experts, managers, technicians, and the public. Not open for credit to students who have taken course 104A prior to Fall 2012. GE credit: ArtHum | AH, WE. —F, W, S.
106. English Grammar (4)
Lecture—3 hours; discussion—1 hour. Prerequisite: course 1 or English 3 or Linguistics 1 or consent of instructor. Survey of present-day English grammar as informed by contemporary linguistic theories. The major syntactic structures of English; their uses and functions; the relationship between syntax, semantics, and pragmatics; and their usefulness in describing the conventions of English. (Same course as English 106 and Linguistics 106.) GE credit: ArtHum | AH, WE.
110. Specialized Genres in Professional Writing (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: satisfaction of the upper-division writing requirement. Restricted to upper-division students who have satisfied the upper-division writing requirement. The writing of major research papers and theses. May be repeated two times for credit when topics differ. Offered irregularly. GE credit: ArtHum, Wrt|AH, WE. —W.
111A. Specialized Topics in Journalism (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: satisfaction of the upper-division writing requirement. Restricted to upper-division students with a strong interest in journalism. Counts toward the minor in social sciences. Instruction in the elements and practices of journalism in specialized genres. May be repeated only one time for credit if specialized journalism topic for each course differs. Offered irregularly. GE credit: ArtHum, Wrt|AH, WE. —W.
111B. Specialized Topics in Journalism: Investigative (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: satisfaction of the upper-division writing requirement. Restricted to upper-division students with a strong interest in journalism; counts toward the writing minor. Instruction in the elements and practices of in-depth investigative journalism. Offered in alternate years. GE credit: ArtHum, Wrt|AH, WE. —W.
111C. Specialized Topics in Journalism: Science Journalism (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: satisfaction of the upper-division writing requirement. Restricted to upper-division students with a strong interest in journalism. Counts toward the writing minor. Instruction in the elements and practices of science journalism. Offered in alternate years. GE credit: ArtHum, Wrt|AH, WE. —W.
112A. Introduction to Professional Editing (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: satisfaction of the upper-division writing requirement. Restricted to upper-division students who have satisfied the upper-division writing requirement; counts toward the writing minor, Group C: Theory, History, and Design. Introduction to general editing practices and principles, with an emphasis on professional editing in organizational contexts, including academia and the workplace. Extensive practice in copy, comprehensive, and collaborative editing. Offered irregularly. GE credit: ArtHum, Wrt|AH, VF, VL, WE.
120. Rhetorical Approaches to Scientific and Technological Issues (4)
Lecture/discussion—3 hours; extensive writing. Restricted to upper-division standing. Application of rhetorical theories to scientific issues. Topics include: rhetoric and epistemology of scientific knowledge; science fiction; invention in science; theoretical frameworks in science; and the rhetorical role of the scientist. Offered in alternate years. GE credit: ArtHum or SciEng | AH or SE, WE. —W.
121. History of Scientific Writing (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: upper division standing. History of scientific writing from the 17th century to the present; origins and evolution of scientific genres; role of scientific writing in producing scientific knowledge; discursive differences between disciplines; emergence of English as a global language of science. Offered in alternate years. GE credit: ArtHum or SciEng | AH or SE, VL, WE. —F, Whithaus
190. Capstone Portfolio Seminar (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: course 100. Open to majors who have completed 135 units. Capstone course for majors. Synthesis and application of rhetorical concepts learned in the major's coursework to a professional digital and print portfolio for graduate school and career applications. GE credit: WC. —S. (S.)
192. Internship in Writing (1-12)
Internship—36 hours. Prerequisite: course 1 or English 3 or the equivalent; consent of instructor. Internships in fields where students can practice their skills. May be repeated up to 12 units for credit. (P/NP grading only.) GE credit: AH.
197T. Tutoring (1-5)
Tutoring—1-5 hours. Prerequisite: upper division standing; consent of instructor. Tutoring on one-on-one or leading small voluntary discussion groups affiliated with a writing course. May be repeated up to 10 units for credit. (P/NP grading only.) GE credit: AH.
197C. Community Tutoring in Writing (1-4)
Tutoring—1-4 hours. Prerequisite: upper division standing; consent of instructor. Field experience, with individuals or in K-12 classroom instruction, focusing on reading- and writing-teaching strategies in any subject area. May be repeated up to 10 units for credit. (P/NP grading only.) GE credit: AH.
198. Directed Group Study (1-5)
Prerequisite: course 1 or English 3 or the equivalent; consent of instructor. May be repeated up to 10 units for credit. (P/NP grading only.) GE credit: AH, WE.
199. Special Study for Advanced Undergraduates (1-5)
Prerequisite: consent of instructor. [P/NP grading only.] GE credit: AH, WE.
Graduate
220. Rhetorical Approaches to Genre Study (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: graduate standing or consent of instructor. Using genre theory and methods of analysis to understand and prepare to research on different types of writing in varying academic and professional contexts. Emphasis on problems in organizational, professional, and/or interdisciplinary communication. Offered in alternate years.—F, W. (F, W.) Andersen, Ferris, Perrault, Thaiss, Whithaus
250. Writing Assessment (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: graduate standing or consent of instructor. Examination of key testing and assessment techniques and the history of writing assessment; and relationships among writing tests and methods of teaching writing; the impacts of Information and Communication Technology (ICT), and how educational policies both drive and respond to writing assessments. Offered in alternate years. —(W) Whithaus
253. Writing Program Administration (4)
Lecture/discussion—3 hours; extensive writing. Theories, models, and procedures for managing writing programs, primarily in higher education. Developmental, first-year, and advanced writing programs, writing centers, writing across-the-curriculum programs, writing minors and majors, and graduate programs in rhetoric and composition. Offered in alternate years.—Ferris, Thaiss, Whithaus
270. Theory and Research in Response to Student Writing (4)
Discussion—3 hours; extensive writing; extensive writing or discussion; project. Restricted to graduate standing. Intensive focus on the critical topic of response or feedback to student writers. Coverage of philosophy, theory, and empirical research on teacher written feedback, teacher-student writing conferences, peer response, and error correction. Offered in alternate years.—F, W. (W.) Ferris
270. Literacy and Technology (4)
Lecture/discussion—3 hours; extensive writing. Prerequisite: graduate standing or consent of instructor. Examines how the physical qualifications of texts offer different affordances during production and reception; grounding these discussions in the development of literacy practices and writing technologies from ancient to contemporary; creates frameworks for research into literacy, teaching, and textual technologies. Offered in alternate years.—(W) Andersen, Whithaus
271. Second Language Writing (4)
Seminar—3 hours; extensive writing; project. Prerequisite: graduate standing. Restricted to graduate students in second language education. Traces historical and social contexts of second language writing theory and research on second language writers in a variety of academic and professional contexts. Emphasis on writer characteristics, texts, and contexts. Offered irregularly.—F, S. (F, S.) Ferris
280. Journal Editing Workshop: Writing on the Edge (2)
Seminar—2 hours. Reading and critiquing manuscript submissions. Discussing relevant work in the field of writing studies. Applying writing of professional editing. Developmental editing, copy-editing, and typesetting of accepted manuscripts. Soliciting articles and communicating with contributors. Students encouraged to enroll both semesters. May be repeated for credit. (S/U grading only.)—F, W. (F, W.) Masiel
298. Directed Group Study (1-5)
Prerequisite: graduate standing; consent of instructor. [S/U grading only.] GE credit: Wrt
299. Individual Study (1-12)
Prerequisite: consent of instructor; graduate standing. [S/U grading only.]

Fall 2011 and on Revised General Education (GE): AH=Arts and Humanities; SC=Science and Engineering; SS=Social Sciences; AGCH=American Cultures; D=Donor; Diverse=Minority; SL=Social Sciences; V=Literature; WC=World Cultures; WE=Writing Experience
Pre-Fall 2011 General Education (GE): ArtHum=Arts and Humanities; SciEng=Science and Engineering; SocSci=Social Sciences; Div=Diverse Diversity; Wrt=Writing Experience Quarter Offered: F=Fall, W=Winter, S=Spring, Su=Summer; 2017/2018 offering in parentheses
Urban Planning
See Environmental Science and Policy, on page 327.

Urology
See Medicine, School of, on page 427.

Vegetable Crops
See Plant Sciences, on page 514.

Veterinary Medicine, School of
Michel D. Laimore, D.V.M., Ph.D., Dean of the School
Patricia A. Conrad, D.V.M., Ph.D., Associate Dean—Global Programs
Jan E. Ikiz, B.V.Sc., Ph.D., Associate Dean—Academic Programs
Sean D. Owens, D.V.M., Associate Dean—Admissions and Student Programs
John R. Pascoe, B.V.Sc., Ph.D., Executive Associate Dean
Isaac N. Pessah, Ph.D., Associate Dean—Research and Graduate Education Programs
Jane Sykes, B.V.Sc., Ph.D., Interim Associate Dean—Clinical Programs and Director—Veterinary Medical Teaching Hospital
School Office. 530.752.1360; http://www.vetmed.ucdavis.edu

Departmental Courses
Anatomy, Physiology and Cell Biology (APC)
Lower Division
92. Internship (1-12)
Internship—3-36 hours. Prerequisite: lower division standing; consent of instructor. Internship experience off and on campus in all subject areas offered in the Department of Anatomy, Physiology & Cell Biology. Internships are supervised by a member of the faculty. Offered in blocks. (P/NP grading only).

99. Special Study for Undergraduates (1-5)
Prerequisite: consent of instructor. (P/NP grading only)—F, W, S, Su. (F, W, S, Su.)

Upper Division
100. Comparative Vertebrate Organography (4)
Lecture—3 hours; laboratory—3 hours. Prerequisite: Biological Science 1A and 1B or 2A and 2B. Functional anatomy of major organ systems in vertebrates. Each system examined from cellular to gross level in fish, birds, and mammals. Emphasis on how differentiation is related to function and to organs to perform diverse physiological functions. (Same course as Neurobiology, Physiological, and Behavior 123.)—F, S. (F, S.

192. Internship (1-15)
Internship—3-45 hours. Prerequisite: upper division standing; approval of internship. Internship experience off and on campus in all subject areas offered in the Department of Anatomy, Physiology and Cell Biology. Internships are supervised by a member of the faculty. May be repeated for credit if topic differs. (P/NP grading only.)

198. Directed Group Study (1-5)
Prerequisite: consent of instructor. (P/NP grading only)—F, W, S. (F, W, S.)

199. Special Study for Advanced Undergraduates (1-5)
Prerequisite: consent of instructor. (P/NP grading only)—F, W, S. (F, W, S.)

Graduate
286. Basics of Microscopy and Cellular Imaging (2)
Lecture—1 hour; laboratory—2 hours. Prerequisite: graduate standing; consent of instructor. Class size limited to 20 students. Practical applications of basic microscope techniques used to image cells and tissues with the goal of using these techniques to generate publication quality images. Principles of light, epifluorescent, confocal and electron microscopy, their applications and limitations. Offered in alternate years.—S. Van Winkle

290. Seminar (1)
Seminar—1 hour. Discussion and critical evaluation of advanced topics and current trends in research. (P/NP grading only.)—F, W, S. (F, W, S.) Van Winkle

291. Topics in Biology of Respiratory System (1)
Seminar—1 hour. Prerequisite: graduate standing; consent of instructor. Topics concerning structure and function of respiratory system. Possible topics include: lung growth, pulmonary reaction to toxicants, pulmonary inflammation, lung metabolism, biology of lung cells, tracheobronchial epithelium, nasal cavity structure and function. May be repeated for credit. (S/U grading only.)—F, W, S. (F, W, S.) Pinkerton, W.

298. Group Study (1-5)
Laboratory—6-15 hours. Prerequisite: consent of instructor. (P/NP grading only.)—F, W, S. (F, W, S.) Genetos, Meyers

299. Research (1-12)
Laboratory—6-36 hours. Prerequisite: consent of instructor. (S/U grading only.)—F, W, S. (F, W, S.)

Medicine and Epidemiology (VME)
Upper Division
158. Infectious Disease in Ecology and Conservation (3)
Lecture—3 hours. Prerequisite: Evolution and Ecology 101 or Environmental Science and Policy 100 or Veterinary Medicine 409 or equivalent. Introduction to the dynamics and control of infectious disease in wildlife, including zoonotic diseases and those threatening endangered species. Multidisciplinary approach combines perspectives of ecology and veterinary medicine. (S/U grading only.)—F, W. (F, W.)

198. Directed Group Study (1-5)
Prerequisite: consent of instructor. (P/NP grading only.)—F, W. (F, W.)

199. Special Study for Advanced Undergraduates (1-5)
(P/NP grading only.)—F, W, S. (F, W, S.)

Graduate
201. Emerging Issues at the Interface of Ecosystem, Animal and Human Health (3)
Lecture—1 hour; discussion—2 hours. Prerequisite: Active student status in MPHVM, Master of Public Health programs or graduate groups in Epidemiology, Ecology, Public Health, Comparative Pathology, or consent of instructor. Restricted to 20 students. Principles of one health with emphasis on the relationships and interdependencies of environmental, animal and human health. Exploration of critical data gaps needed to achieve sustainability in ecosystems and disease prevention.—F. (F) Johnson

217. Evaluation and Use of Diagnostic Tests (2)
Lecture—14 sessions; laboratory—6 sessions; discussion—3 sessions. Prerequisite: Preventive Veterinary Medicine 205 or Epidemiology 205; consent of instructor. Class size limited to 30 students. Clinical and epidemiological properties and application of diagnostic tests for disease, with emphasis on selecting tests; validating, evaluating, and interpreting new tests individually and in aggregate; determining cutoff values; and developing testing strategies. Offered in alternate years.—(S) Hill

225. Retroviral Pathogenesis Seminar/Journal Club (1)
Discussion—2 hours. Prerequisite: course 158 (must be taken concurrently). Presentation, analysis and discussion of primary literature on the dynamics and control of infectious disease in wildlife, including zoonotic diseases and those threatening endangered species. Multidisciplinary approach combines perspectives of ecology and veterinary medicine. (S/U grading only.)—F, W. (F, W.) Murphy, Sparger

258. Infectious Disease in Ecology and Conservation (1)
Discussion—2 hours. Prerequisite: course 158 (must be taken concurrently). Presentation, analysis and discussion of primary literature on the dynamics and control of infectious disease in wildlife, including zoonotic diseases and those threatening endangered species. Multidisciplinary approach combines perspectives of ecology and veterinary medicine. (S/U grading only.)—F, W. (F, W.) Martinez

299. Research (1-12)
(S/U grading only.)—F, W, S. (F, W, S.)

Molecular Biosciences (VMB)
Lower Division
92. Internship (1-12)
Internship—3-36 hours. Prerequisite: lower division standing; consent of instructor. Work experience off and on campus in all subject areas offered in the Department of Molecular Biosciences. Internships supervised by a member of the faculty. (P/NP grading only.)—F, W, S. (F, W, S.)

101Y. Principles of Pharmacology and Toxicology (3)
Laboratory/discussion—1.5 hours; web virtual lecture—1.5 hours; web electronic discussion—0.5 hour; autotutorial—5 hours. Prerequisite: upper division standing in a science major; Chemistry through organic chemistry and general biology, or consent from instructor; good standing with university; computing capability using MS Word, Excel, and PowerPoint, menu driven software programs, SmartSite, computer, or ready access to a computer, with