

SABBATICAL PROPOSAL

CYNTHIA E. STRINGFIELD, D.V.M

OCTOBER, 2016

I began my position as Faculty and Zoo Veterinarian in the Animal Science and Exotic Animal Training and Management department at Moorpark College in the Fall of 2004. I was the veterinarian for America's Teaching Zoo (ATZ) as well as a full-time faculty member. I was granted a sabbatical for Fall of 2010 to study Problem-Based Learning at the School of Veterinary Medicine at Western University in Pomona. When I returned I did a presentation for my peers and students at EATM as well as a FLEX week continuing education presentation for faculty at Moorpark College. During my sabbatical I also investigated the transferability issues with some EATM classes, and re-worked some of them to decrease the number of units. Thirdly, I attended the Association of Zoo Veterinarians conference. When I returned from my sabbatical, a part-time veterinarian continued the care for the animals while I became more involved with faculty responsibilities at the college. I spent several years on the Curriculum committee and for the last two years have served as Department Chair and served on the CTE/Perkins committee, along with the Fiscal and Ed Cap committees. This year I am co-chair for EATM, and continuing my involvement with those same three committees. I have spoken with my dean, Norman Martin, and co-department chair, Brenda Woodhouse, about my sabbatical and both are supportive.

The sabbatical I am applying to take for Fall 2017 will serve the college, students, and animals at our teaching zoo. The animal field is changing rapidly, and we face challenges staying current in the field of animal welfare. As faculty, I teach this topic in many classes at EATM, and I also work closely with ATZ on these issues. In 2013, I watched closely as a new veterinary specialty was formed, the American College of Animal Welfare (<http://www.acaw.org/> and see attached); In 2014, the first three diplomates became specialists. I would like to use my sabbatical to pursue becoming a board-certified specialist in Animal Welfare. Additionally, I would like to attend the Third International Symposium on Zoo Animal Welfare at Brookfield Zoo in Chicago October 8-10, 2017 (<https://www.czs.org/Centers-of-Excellence/Center-for-Animal-Welfare/Animal-Welfare-Research/Animal-Welfare-Symposium-2017> and see attached). While I am in Chicago, I would also spend time with the leaders in this field at the Chicago Zoological Society Center for the Science of Animal Care and Welfare.

In the EATM program I teach the majority of the animal care-related classes, and welfare is a predominant theme that runs through them all. This all leads to a course in the final semester of the program, the Ethics and Legal Issues course, where we explore the broader field of animal welfare (see attached COR). Our Advisory Group

unanimously agreed that this course should be restored from 1 to 2 units (it was cut during budget and unit cuts) and I was able to accomplish that. Our Advisory Group also strongly recommended media training for our students, since the public has the capability and desire to video and post on the internet, and we were able to accomplish that training for faculty and zoo staff through CTE grant funding this year. A third goal of mine for this course has been accomplished as well. In working with the library, we also have added two journals relating to Animal Welfare so our students can access them, but I have not had the time to become familiar with this scientific literature due to time constraints. This is a very important component of the board-certification program as all these articles are part of the material tested on in the certification examination (see attached list). I can better teach students and lead them to the scientific literature if I am familiar with it, something I cannot do with many of these resources now. In the Spring of 2018 I would be able to change the content of EATM 27 to include those scientific resources and add the content I learned during my sabbatical.

At America's Teaching Zoo, we are working hard on continually improving welfare for the animals in our care. We have created a new zoo masterplan, the first step needed to begin the task to update the zoo's enclosures and provide more room for the college's animals. We are now embarking on the fund-raising aspects. When we are able to do more detailed design, having the expertise from the Animal Welfare specialty on our team will assist us in designing the best possible enclosures for our animals. This benefits the staff of ATZ as well in providing this continuing education to them.

The mission statement of the Ventura County Community College District is: "...become the leader in the development of high quality, innovative educational programs and services. Keeping in mind that students come first, we will model best practice in instructional and service delivery, student access, community involvement, and accountability." This sabbatical directly addresses the goals of developing high quality, innovative education, students first, and best practice in instruction by supporting a faculty member in becoming an expert in a field that is of paramount importance to the students being educated to go into that field. Additionally, ATZ is considered a "jewel" of the district, being one of only two zoos on college campuses in the U.S.. It is also open to the public, and as such is a very visible part of the district. In making sure our zoo is current and providing the best possible welfare for the animals in our care, we continue to maintain the ongoing excellent reputation of the district.

Moorpark College's Mission statement is: "With a 'students first' philosophy, Moorpark College empowers its diverse community of learners to complete their goals for academic transfer, basic skills, and career technical education. Moorpark College integrates instruction and student services, collaborates with industry and educational partners, and promotes a global perspective." The information above for the district is

true for the college as well. Additionally, The Exotic Animal Training and Management CTE program has been an industry leader since its inception, with students coming from all over the world (Europe, Mexico, South America, Canada as recent examples) to attend the program. The program is world famous, with graduates at numerous animal facilities all over the world representing Moorpark college (in fact, these grads are called "Moorparkers"!). Ensuring that they graduate with the highest quality and most current education in animal care is paramount to maintain this reputation in the future.

Sabbatical Proposal – Summary

Cynthia E. Stringfield, D.V.M.

Purpose:

My sabbatical will have 2 main goals:

- 1.) **Pursue Board Certification in Animal Welfare:** I will be able to act as a resource for and share information with ANSC/EATM faculty and Moorpark college faculty (and VCCCD faculty if the district so desires), and staff of America's Teaching Zoo.
- 2.) **Attend Third International Zoo Animal Welfare Symposium** in Chicago, and visit with experts at the Chicago Zoological Society Center for the Science of Animal Care and Welfare in October of 2017.

Value:

- 1.) **Benefits to faculty member:**
 - Gaining expertise in the field of animal welfare. Continuing education will keep me current in a field that is changing rapidly.
- 2.) **Benefits to students:**
 - EATM students will be taught by a board-certified specialist in Animal Welfare. This will keep them on the cutting edge when they graduate and apply for jobs.
- 3.) **Benefits to college and district:**
 - Resources and information gained will be shared to all regarding Animal Welfare.
 - Improved knowledge will benefit the college's valuable zoo animals at ATZ as we create renovations to the zoo, and in their day-to-day care.
 - EATM will gain expertise to ensure we maintain our high profile CTE program standing as being of the highest quality.

- A board-certified expert in Animal Welfare will be able to address and prevent any public concerns about animal care.

4.) Feasibility:

- All aspects of this sabbatical are completely feasible. See attached information regarding the requirements for Board Certification in Animal Welfare.
- I have obtained a mentor to work with me, Jose M Peralta, DVM, MSc, PhD, Associate Professor, Animal Welfare & Veterinary Ethics at Western University School of Veterinary Medicine. Two additional mentors, Jeffrey Boehm, DVM, Executive Director of the Marine Mammal Center in Sausalito, and Joanne Paul-Murphy, DVM, Professor, Zoo Medicine, UC Davis will also be assisting me in my education.

5.) Guarantee:

- I guarantee I will return from sabbatical for a period of twice the leave granted.

6.) Frequency of leave

- This would be my second sabbatical leave. My first sabbatical was a successful one where I accomplished my goals and shared the information learned with my own department, ATZ, the college and the district.

Proposed Sabbatical Itinerary

August - January:

- Work with mentor at Western University on requirements for the Board Certification in Animal Welfare: See attached requirements for more detailed timeline information. This would include reading articles and books, doing case studies and writing papers as described. This would include visits to the Marine Mammal Center, UC Davis, and Western University.
- Incorporate changes into EATM 27, as well as any other pertinent classes.

October: Attend Third International Zoo Animal Welfare Symposium hosted by the Chicago Zoological Society

November: Submit materials for 2018 certification examination.

After sabbatical:

Spring:

- I would return to teaching and implement changes to EATM 27 and any other pertinent classes.
- I would do a presentation for staff, faculty, and EATM students at Moorpark College to educate them about what I learned during my sabbatical, and file a report to the sabbatical committee and district.
- I would be continuing to study for the certification exam.

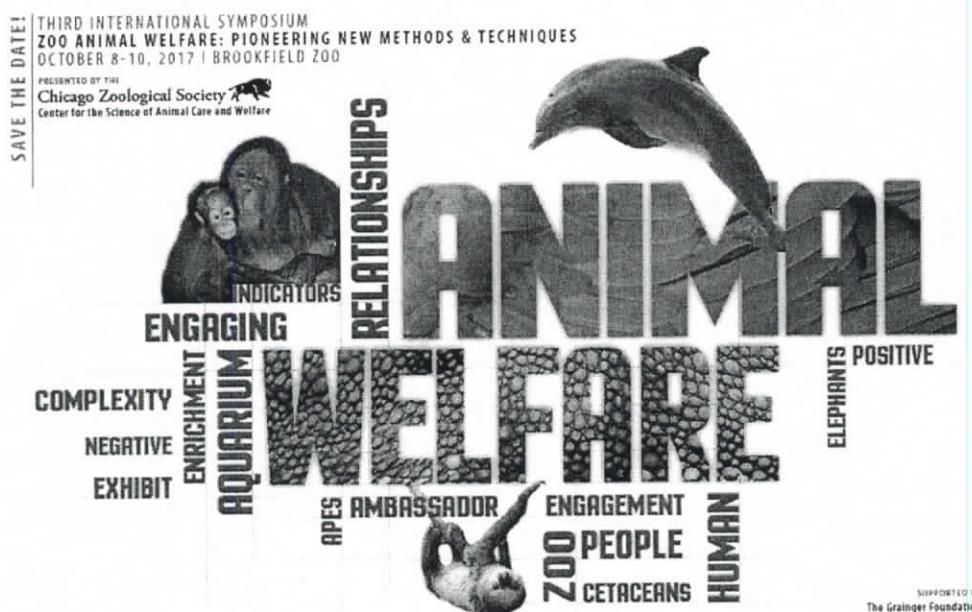
Summer 2018: Take the short course and the certification exam (dates not determined by ACAW yet).

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Summer 2018: Take the short course and the certification exam (dates not determined by ACAW yet).



PLEASE SAVE THE DATE FOR THE

3RD INTERNATIONAL SYMPOSIUM ON ZOO ANIMAL WELFARE

Hosted by:

Chicago Zoological Society Center for the Science of Animal Care and Welfare

Priority topics for the Symposium include:

1. Exhibit Complexity, Enrichment, and Animal Engagement
2. Human-Animal Relationships and Animal Care Staff Personalities/Attitudes
3. Cetacean, Elephant, and Great Ape Welfare
4. Positive and Negative Indicators of Welfare
5. Ambassador Animal Welfare

We hope you will be able to join us for some great presentations and stimulating discussions. Additional information and details will be provided during the Spring of 2017.

Animal Welfare Research

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American College of Animal Welfare

ACAW Home

Notices/Important Dates:

November 01, 2016 is the deadline for submitting materials for the 2017 certification examination. On the afternoon of June 9th an orientation session will be held in preparation for the 2017 exam which is scheduled for June 10th at North Carolina State University's College of Veterinary Medicine.

The 2017 ACAW Short Course will be held June 7-9 at North Carolina State University's College of Veterinary Medicine. Additional information will be available soon.

The annual business meeting of ACAW will be July 25th in Indianapolis, IN to coincide with the Annual AVMA convention.

Overview:

The American College of Animal Welfare "ACAW" is an AVMA recognized veterinary speciality organization. ACAW is incorporated in the State of Illinois as a not for profit corporation and has received federal income tax exemption under section 501(c)6 of the Internal Revenue Code.

The mission of the American College of Animal Welfare is to advance animal welfare through education, certification, and scientific investigation. Diplomates of the American College of Animal Welfare are veterinarians with specialized training and experience to carry out the ACAW mission. This mission is fulfilled through the application of specific knowledge listed in the Role Delineation Document.

Ensuring good animal welfare has been intuitively recognized as a critical goal of veterinary medical practice since its inception. However, during the past twenty years, animal welfare has expanded exponentially as a distinct discipline of veterinary medicine. In recognition of this expansion of knowledge, ACAW believes it is time to offer advanced animal welfare training, education, and board certification to ensure the veterinary profession continues to lead in advancing animal welfare knowledge for the benefit of the public and the profession.

Veterinarians educated to an advanced level in all aspects of animal welfare science and ethics are uniquely positioned to step forward to provide the public, general veterinary practitioners, and other stakeholders with accurate information, advice, and advanced expertise concerning animal welfare questions and challenges.

Recent Awards to ACAW Diplomates:

Dr John Herbold - National Academies of Practice Nicholas A. Cummings Award (April 2016)

Dr. Melissa Bain - AVMA Leo Bustad Companion Animal Veterinarian of the Year Award (January 2016)

Dr Gail Golab - University of Illinois Dr Erwin Small Distinguished Alumni Award (September 2015)

Dr. Jan Shearer - DeLaval Dairy Extension Award (July 2015)

Dr. Stacy Pritt - Laboratory Animal Welfare Training Exchange Founders Award (June 2015)

Dr. Txema Peralta - AVMA Animal Welfare Award (2015)

Dr. John Madigan - AAEP Milne Lecture Lifetime Achievement Award (2014)

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AMERICAN COLLEGE OF ANIMAL WELFARE

Note new address for the Secretary as of April 1, 2016

January 1, 2016

Thank you for your interest in the process of becoming a board certified veterinarian in the American College of Animal Welfare. This version of the ACAW Applicant's Packet provides information relative to the ACAW process of becoming board certified using an **Alternate Route** program. This route is intended for individuals who have some but not all of their requirements already completed and those who are not intending or unable to be in a traditional animal welfare residency training program at a university. The Packet will be updated periodically to provide you with the most current information. There are several sections, with each intended to provide you with information needed at different stages of your quest. Updated forms are also being posted on the website.

Please read this material carefully. It will be important when submitting materials to the ACAW that the **most current** instructions are followed. An overview of what steps will be needed is located on page 3.

Please note various deadlines and fees. Once training is complete and you feel that you have met the criteria evaluated by the Training Committee, you will apply for credentialing. The submission of your credentials and associated fees must be in the office of the ACAW Secretary not later than November 1st in order to be considered for the examination held the following year. The credentialing submission **must** include everything you intend to use to support your proof of having completed training because that document is the only information the Credential's Committee will use to make their determination.

New as of 2016 is the requirement for anyone who becomes an ACAW Diplomate after January 1, 2016 must meet the recertification requirements of the organization.

We are excited that you have the interest in the American College of Animal Welfare and look forward to working with you toward your goal.

Correspondence address:

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ACAW Secretary

AAALAC International

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Overview of the Steps Toward Certification in the American College of Animal Welfare

Alternate Route

Alternate Route
a) Training in progress but incomplete by Aug. 1, 2012; or b) Want training via Alternate Route
Find an ACAW Diplomate mentor
Register and pay registration fee of \$200
Submit proposed program for approval within 18 months of registration and no later than January 1 st of the year credentialing will be submitted
Complete the ACAW accepted program within 5 years of it being accepted
Submit credentialing materials + credentialing fee of \$300
Pass credentialing
Submit Application for Exam form + exam fee of \$300
Pass examination within 5 years of 1 st credentialing submission and in no more than 3 examination attempts

Alternate Route

Pathways for individuals who have less than 5 years of animal welfare experience prior to August 1, 2012:

The purpose of the ACAW training programs is to provide high quality education in the science of animal welfare. The core for each program is defined by the ACAW Role Delineation Document, which serves as the basis of approval for any submitted program, the credentialing process, and the examination.

Individuals who feel they have completed an education covering the material in the Role Delineation Document prior to August 1, 2012 may register with ACAW and submit credentialing documents supporting that as outlined under the *Provisional Route*. Anyone who has not completed their education in the Role Delineation Document subjects by August 1, 2012 must do so via the Training Route or the Alternate Route pathways.

Two types of individuals fall into this category for using an Alternate Route program: a) individuals who have been doing some work in the field of animal welfare after receiving their veterinary degree but have not completed 5 full years of experience prior to August 1, 2012 or lack experience in several parts outlined in the Role Delineation Document (RDD), and b) individuals who would like training equivalent to the Training Route but who cannot get into such a program or have other reasons why they cannot do the more traditional Training Route.

The first step to starting on an Alternate Route program is to find an ACAW Diplomate who will agree to mentor you during your program. Please know that some mentors may require compensation for their activities, with specifics to be worked out between the two individuals. Once the mentor is found, you will then submit the ACAW Registration Form with the appropriate registration fee.

Once you have registered, you and your mentor together will design a program of study to meet the ACAW credentialing requirements and submit that program for acceptance within 18 months for registering with ACAW. The materials you submit in the proposed Alternate Route program should spell out clearly what you have already done so you get credit for it and what remains to be done (and how you intend to do that) relative to the RDD. It is desirable to use the Animal Welfare Activities Form to list the animal welfare related activities you have already completed, if any, in one color and those which are yet to be done in another color.

Include descriptions in enough detail to show how each is expected to meet the knowledge expectations listed in the RDD.

The Alternate Route program must be completed and credentialing applied for within 5 years of the acceptance of your Alternate Program. You will also be expected to pass the examination within 5 years of the 1st submission of your credentialing materials (regardless of whether you pass that 1st credentialing submission). You will have a maximum of 3 attempts to pass the examination in that 5 year period prior to having to go through the registration, program submission, and credentialing process again.

The requirements for individuals in the Alternate Route are as follows:

1. Be a graduate of a college or school of veterinary medicine accredited or approved by the AVMA, or possess a certificate from the Educational Commission for Foreign Veterinary Graduates (ECFVG), or is qualified to practice veterinary medicine in some state, province, territory, or possession of the United States, Canada, or other country.
2. Identify an ACAW Diplomate mentor
3. Register with ACAW by completing the **ACAW Registration Form**.
 - a. Submit one copy of the **ACAW Registration Form** electronically to the ACAW Secretary.
 - i. Mail a check/money order to cover the registration fee to the ACAW Secretary. Individuals from outside the United States must send a money order.
 - ii. The ACAW Diplomate confirms to ACAW that s/he has agreed to serve as the candidate's mentor.
4. Submit the proposed Alternate Route program materials to ACAW for review and approval by the Training Committee.
 - a. Work with the mentor to develop a proposed Alternate Route program.
 - b. The proposed program must be submitted for review no more than 19 months from the date of registration.
 - c. Complete and send the **Proposed Alternate Route Program Form**.
 - i. The proposed program should include information about how the candidate intends to meet the criteria that is ultimately required for credentialing. This includes how they will gain the knowledge required in the Role Delineation Document (RDD) (including specifics about those things already done and a plan of completion for the areas not yet covered), a proposed timeline for completion, and areas of research interest (including previous publications). Previous experience in the field of animal welfare obtained in the post-veterinary degree

timeframe, knowledge obtained while achieving Diplomate status in another veterinary specialty organizations, in a dual residency program, or in a relevant doctoral (Ph.D., D.Sc.) program should also be included..

- ii. Performance of animal welfare assessments
 1. 12 areas for performance assessments as listed in the Task 9B section of the RDD
 - a. Companion animals
 - b. Poultry production
 - c. Hooved stock production
 - d. Equids
 - e. Laboratory animals
 - f. Zoo animals
 - g. Aquatic animals
 - h. Aquaculture/fisheries
 - i. Wildlife/exotic animals
 - j. Animals in exhibitions/entertainment
 - k. Animals in education
 - l. Working/assistant animals
 2. Direct observations should include performing animal welfare assessments for components of a-f above and at least 2 additional components from g-l above.
 3. An alternative to direct assessments is online training such as provided in training scenarios available through the Michigan State University website or videos
 4. The use of standardized animal welfare assessment tools is preferred such as for physical/emotional health or species appropriate behavior.
- iii. Case studies/case reports – “Case studies” or “case reports” are encouraged to be included in the program. These are activities to assist a mentor and candidate with the discussion of a situation or condition. Case studies/case reports general include:
 1. Identification of a situation where welfare would need to be assessed
 2. Determination of how to assess the welfare of the animal(s)
 3. Written report of the assessment, including recommendations for steps that could be instituted so that the welfare could be improved.

As an example, a mentor might define a specific situation (e.g., dairy operation, animal shelter, elephant enclosure) where the candidate could compare, contrast, list, rank order the issues or circumstances inherent to the situation that might affect animal welfare, and the mentor could request a candidate provide a paradigm for a modified, and potentially enhanced outcome for the animal(s). The purpose of the exercise is to identify factors affecting welfare, consideration of factor interaction upon welfare, and professional decision-making regarding options and choices supportive of good welfare outcomes. These case studies/case reports are documentable in the candidate's application of the alternate pathway as demonstrable evidence of focused interaction with the Diplomat mentor and attentiveness to welfare principles and applications.

- d. The applicant is encouraged but not required to also include an **Animal Welfare Activities Log Form** noting in one color those things they feel they have already completed and using a second color to indicate those things that remain to be done, as well as how they expect to do them.
 - e. Include a letter from the mentor stating that they have been actively involved in the development of the proposed alternate route and that they feel the proposed training program is consistent with ACAW requirements.
 - f. Pending the outcome of the Training Committee review, additional areas of study may be identified or the packet may be approved.
 - g. The submission of the proposed Alternate Route program cannot occur later than January first of the year the candidate intends to submit credentialing materials.
5. Complete the program as approved by the Training Committee within 5 years of the program being accepted by ACAW. The applicant's Alternate Route program must be complete **before** credentialing materials can be submitted.
 6. Complete the **Verification of Credentials Form-Alternate Route** and **Animal Welfare Activities Log Form**.
 - a. Fill out completely because **proof that you have met the qualifications is entirely your responsibility.**
 - i. Must document by providing Curriculum Vitae and other information asked for on the **Verification of Credentials Form-Alternate Route** and **Animal Welfare Activities Log Form** that they have obtained the knowledge required in the Role Delineation Document / Training Program Knowledge.

1. Animal welfare post-veterinary experiential activities and observational training beyond on-the-job experience should be included in the **Animal Welfare Activities Log Form**.
 2. The candidate must submit a copy of their accepted Alternate Route program and then demonstrate how they specifically filled each of the sections of the initial plan.
 3. Pending the outcome of the Credentials Committee review, additional areas of study may be identified or the packet may be approved.
- ii. Must meet publication requirements
1. Proof of **final** acceptance of submitted manuscripts (if published papers were not initially submitted) must be received by the ACAW Secretary by April 1st following passing of Credentials.
 2. Manuscripts should have a substantial focus on animal welfare and/or discuss how the research performed directly impacts a component of animal welfare as outlined in the RDD.
 - a. If the manuscript has not received final acceptance when credentials are submitted, a copy of the manuscript and a letter of its receipt from an approved journal must be submitted at the time of credentialing.
 - b. Verification of final acceptance of the submitted manuscript(s) must be received by the ACAW Secretary by April 1st following submission of Credentials.
 - c. A person is not eligible to sit the examination until final acceptance of credentials (including publication requirements) has been received.
- b. Electronically submit one copy of each of the following to the ACAW Secretary. They must be received by November 1st.
- i. A signed copy of the **Verification of Credentials Form-Alternate Route**
 - ii. The **Animal Welfare Activities Log Form**
 - iii. A copy of each publication, or a copy of the manuscript(s) submitted for publication with a copy of the letter of receipt by the publisher if a manuscript has not been finally accepted for publication
 - iv. Curriculum vitae

- v. Veterinary diploma, ECFVG certificate, or license/certificate to practice veterinary medicine
- c. Mail a check/money order to cover credentialing fee to the ACAW Secretary.
 - i. Must be received by November 1st
 - ii. Individuals are expected to sit the first examination given after successful credentialing.
- d. Identify 3 individuals to provide evaluation of your knowledge in animal welfare, one of whom must be your ACAW Diplomate mentor.
 - i. Provide each with an **Applicant Evaluation Form** that you have filled out the applicant's portion at the top
 - ii. These forms are to be returned directly by the evaluator to ACAW and must be received by November 1st
 - 1. It is the candidate's responsibility to ensure the forms are received by the deadline.
- e. Once a candidate's credentials have passed, the candidate will be asked to submit a completed **Application for Examination and Code of Conduct Form** electronically to the ACAW Secretary.
 - i. Mail a check/money order to cover the examination fee to the ACAW Secretary when this form is submitted

Individuals certified after 2015 will be required to comply with mandatory recertification requirements.

American College of Animal Welfare (ACAW)
Resource List

The ACAW has developed the following suggested resource list for individuals interested in developing a deeper understanding of animal welfare. The intent of the list is to help the applicant view the breadth and scope of animal welfare, including controversial issues, and to augment current knowledge in preparation for the examination. It should not be construed as a commitment regarding specific examination material nor does it reflect endorsement of a particular viewpoint expressed by any author. For ease of use, the list is divided by tasks listed on the Role Delineation Document (RDD), then alphabetically by author/editor, although many references contain information that would apply to more than one task and are not listed more than once. For the purposes of studying for the ACAW examination, it is suggested that an applicant review texts pertaining to general principles of animal welfare (marked with an asterisk *) as well as web links and species specific material as needed, then use other resources within each RDD category to augment knowledge. More timely material, available in periodicals listed at the end should be consulted as well.

Number	RDD Task	Allocation
1	Concepts and History of Animal Welfare	10%
2	Ethical Issues	12.5%
3	Animal Welfare Assessment Considerations	15%
4	Animal Environments	10%
5	The Role of the Veterinary Profession in Promoting Animal Welfare	5%
6	The Individual Veterinarian's Role in Promoting Animal Welfare	10%
7	The Impact of Human, Animal, Environment Interactions on Animal Welfare	10%
8	Regulations, Policies, and Guidelines	7.5%
9A	Contemporary Animal Welfare Issues, Overarching Topics	20% (A+B)
9B	Contemporary Animal Welfare Issues, Species Specific Topics	"

Section I: Book Titles

Task 1. Concepts and History of Animal Welfare

AUTHOR/EDITOR	TITLE AND PUBLISHER	YEAR	*
Appleby MC, Hughes BO, Mench JA, Olsson A	<i>Animal Welfare (2nd Edition)</i> CABI	2011	*
Appleby MC	<i>What Should We Do About Animal Welfare?</i> Blackwell Science, Oxford	1999	
Broom DM, Fraser AF	<i>Domestic Animal Behaviour and Welfare (4th ed.)</i> CABI International	2007	*
Dawkins MS	<i>Animal Suffering - The Science of Animal Welfare</i> Chapman and Hall	1980	
Edie EN	<i>Understanding Animal Welfare: An Integrated Approach</i> Springer	2012	
Fraser D	<i>Understanding Animal Welfare: The Science in its Cultural Context</i> Universities Federation for Animal Welfare (UFAW) Publication	2008	
Grandin T	<i>Improving Animal Welfare: A Practical Approach</i> CABI Publishing	2009	*
Gregory NG, Grandin T	<i>Animal Welfare and Meat Production (2nd Edition)</i>	2007	
Gregory NG	<i>Physiology and Behavior of Animal Suffering</i> Universities Federation for Animal Welfare (UFAW)	2004	*

	Publication		
Greek R, Shanks N	<i>FAQs About the use of Animals in Science</i> University Press of America, www.univpress.com	2009	
McMillan FD	<i>Mental Health and Well-being in Animals</i> Blackwell Publishing	2005	
Mellor D, Patterson-Kane E, Stafford KJ	<i>The Sciences of Animal Welfare</i>	2009	*
Mills DS	<i>The Encyclopedia of Applied Animal Behaviour and Welfare</i> (Relevant chapters), CABI	2010	*
Phillips C	<i>The Welfare of Animals: the Silent Majority</i> Springer	2009	
Webster J	<i>Animal Welfare - A Cool Eye Towards Eden</i> Blackwell Science	1994	
Webster J	<i>Animal Welfare: Limping Towards Eden</i> Blackwell UFAW	2005	

Task 2. Ethical Issues

AUTHOR/EDITOR	TITLE AND PUBLISHER	YEAR	*
Appleby MC, Weary DM, Sandoe P	<i>Dilemmas in Animal Welfare</i> www.cabi.org	2014	
Beauchamp TL, Childress JF	<i>Principles of Biomedical Ethics, 6th Ed.</i> Oxford University Press	2009	
Beauchamp TL, Orlans FB, Dresser R, Morton DB, Gluck JP.	<i>The Human Use of Animals, 2nd Ed.</i> Oxford University Press	2008	
Broom DM	<i>Sentience and Animal Welfare</i> www.cabi.org	2014	
Bryant J, Baggott la Velle L, Searle J	<i>Introduction to Bioethics</i> Wiley & Sons	2005	
Ekesbo, I	Farm Animal Behaviour: characteristics for assessment of health and welfare CABI Press, ISBN 13: 978 184593-7706.	2011	
Harrison R	<i>Animal Machines</i> Vincent Stuart Publishers	1964	
Haynes PH	<i>Animal Welfare: competing conceptions and their ethical implications</i> Springer	2008	
Hendriksen M	<i>Humane Endpoints in Animal Experiments for Biomedical Research</i> London : Royal Society of Medicine Press	1999	
Norton BG, Hutchins M, Stevens EF, Maple TL	<i>Ethics on the Ark</i> Smithsonian Institution Press	1995	
Orlans FB, Beauchamp TL, Dresser R, Morton DB, Gluck JP	<i>The Human Use of Animals, 1st Ed.</i> Oxford University Press	1998	
Orlans FB	<i>In the Name of Science - Issues in Responsible Animal Experimentation</i> Oxford University Press	1993	
Regan T	<i>The Case for Animal Rights</i> University of California Press	1983	

Rollin BE	<i>An Introduction to Veterinary Medical Ethics: Theory and Cases, 2nd edition</i> Blackwell Publishing	2006	
Rollin BE	<i>Farm Animal Welfare: Social, Bioethical, and Research Issues</i> Iowa State University Press	1995	
Rowan AN	<i>Of Mice, Models & Men</i> SUNY Press	1984	
Russell WMS, Burch RL	<i>The Principles of Humane Experimental Technique</i> Methuen, London On-line, see link at www.nc3rs.org.uk	1959	
Sandoe P, Christiansen SB	<i>Ethics of Animal Use</i> Blackwell publishing	2008	
Singer P	<i>Animal Liberation, 2nd edition</i> Random House	1990	
Singer P	<i>In Defense of Animals</i> Basil Blackwell	1985	
Tannenbaum J	<i>Veterinary Ethic: Animal Welfare, Client Relations, Competition and Collegiality, 2nd edition</i> Mosby	1995	*

Task 3. Animal Welfare Assessment Considerations

AUTHOR/EDITOR	TITLE AND PUBLISHER	YEAR	*
Dawkins MS	<i>Observing Animal Behaviour: Design and Analysis of Quantitative Data</i> Oxford University Press	2007	
Houpt K	<i>Domestic Animal Behavior, 5th Ed.</i> Blackwell Publishing	2010	
Jensen P	<i>The Ethology of Domestic Animals</i> CABI Publishing	2002	
Keeling LJ, Gonyou HW	<i>Social Behaviour in Farm Animals</i> CABI	2001	
Luescher AU	<i>Manual of Parrot Behavior</i> Blackwell Publishing	2006	
Mason G, Rushen J	<i>Stereotypic Animal Behavior: Fundamentals and Applications to Welfare, 2nd edition</i> CABI Publishing	2006	*
Mellor DJ, Thornber PM, Bayvel ACD, Kahn S (NRC)	<i>OIE Technical Series Vol. 10: Scientific assessment and management of animal pain</i> National Academies Press	2008	
Moberg G, Mench JA	<i>The Biology of Animal Stress: Basic Principles and Implications for Animal Welfare</i> www.cabi-publishing.org	2000	
National Dairy FARM Program	<i>Animal Care Reference Manual and Quick Reference Guide</i> Published by: National Milk Producers Federation www.nationaldairyfarm.com	2013	
NRC	<i>Recognition and Alleviation of Pain in Laboratory Animals</i> National Academies Press	2009	
Price EO	<i>Principles & Applications of Domestic Animal Behavior</i> www.cabi.org	2008	
Smulders FJM, Algers B	<i>Welfare of Production Animals: Assessment and Management of Risks</i> Wageningen Academic Publishers	2009	

Task 4. Animal Environments

AUTHOR/EDITOR	TITLE AND PUBLISHER	YEAR	*
Kemppinen N	<i>Refinement and Reduction Outcomes of Cage Furniture and Restricted Feeding in Laboratory Rats</i> Finland KUOPIO UNIVERSITY PUBLICATIONS C. NATURAL AND ENVIRONMENTAL SCIENCES 258. Free online at http://epublications.uef.fi/pub/urn_isbn_978-951-27-1291-5/urn_isbn_978-951-27-1291-5.pdf	2009	
Reinhardt V, Reinhardt A	<i>Comfortable Quarters for Laboratory Animals</i> Animal Welfare Institute	2002	
Reinhardt V, Reinhardt A	<i>Variables, Refinement and Environmental Enrichment for Rodents and Rabbits kept in Research Institutions: Making Life Easier for Animals in Laboratories</i> Animal Welfare Institute	2006	
Shepherson DJ, Mellen JD, Hutchins M (eds)	<i>Second Nature: Environmental Enrichment for Captive Animals</i> , 1998 Smithsonian Institution Press	1998	
Smith P, Crabtree H, Bird N	<i>Perfecting the Pig Environment</i> Nottingham University Press	2009	

Task 5. The Role of the Veterinary Profession in Promoting Animal Welfare

AUTHOR/EDITOR	TITLE AND PUBLISHER	YEAR	*
NRC	<i>National Need and Priorities for Veterinarians in Biomedical Research</i> National Academies Press	2003	
James Yeates	<i>Animal Welfare in Veterinary Practice (AFAW)</i> Wiley-Blackwell Publishers	2013	*

Task 6. The Individual Veterinarian's Role in Promoting Animal Welfare

AUTHOR/EDITOR	TITLE AND PUBLISHER	YEAR	*
Fowler M	<i>Restraint and Handling of Wild and Domestic Animals</i> Blackwell Publishing	2008	
NRC	<i>National Need and Priorities for Veterinarians in Biomedical Research</i> National Academies Press	2003	
James Yeates	<i>Animal Welfare in Veterinary Practice (AFAW)</i> Wiley-Blackwell Publishers	2013	*

Task 7. The Impact of Human, Animal, Environment Interactions on Animal Welfare

AUTHOR/EDITOR	TITLE AND PUBLISHER	YEAR	*
Klaassen CD	<i>Casarett and Doule's Toxicology: the basic science of poisons (7th edition), Especially Chapters: "Occupational Toxicology" & "Regulatory Toxicology"</i> McGraw-Hill; also available on line	2007	
Salem H, Katz SA	<i>Alternative toxicological methods</i> CRC Press	2003	
World Organisation for Animal Health (OIE)	<i>Animal Welfare: Global Issues, Trends and Challenges</i> , Vol. 24 (2), August	2005	

Task 8. Regulations, Policies, and Guidelines

AUTHOR/EDITOR	TITLE AND PUBLISHER	YEAR	*
AVMA	<i>AVMA Guidelines on Euthanasia</i> AVMA Press	2012	
Association of Shelter Veterinarians	<i>Guidelines of Standards of Care in Animal Shelters</i> Association of Shelter Veterinarians Free online at http://www.sheltervet.org/associations/4853/files/Standards%20final%20bookmarks_with%20security.pdf	2010	
FASS	<i>Guide for the care and use of agricultural animals in research and teaching (3rd edition)</i> Federation of Animal Science and Societies	2010	
NRC, ILAR, Committee on Guidelines for the Humane Transportation of Laboratory Animals	<i>Guidelines for the Humane Transportation of Research Animals</i> National Academies Press	2006	
National Chicken Council	<i>National Chicken Council Animal Welfare Guidelines and Audit Checklist for Broilers</i> National Chicken Council	2010	
National Chicken Council	<i>National Chicken Council Animal Welfare Guidelines and Audit Checklist for Broiler Breeders</i> National Chicken Council	2010	
NRC	<i>Guidelines for the Humane Transportation of Research Animals</i> National Academies Press	2006	
NRC	<i>Recognition and Alleviation of Distress in Laboratory Animals</i> National Academies Press	2008	
NRC	<i>Recognition and Alleviation of Pain in Laboratory Animals</i> National Academies Press	2009	
NRC	<i>Guide for the Care and Use of Laboratory Animals (11th edition)</i> National Academies Press; Free download: http://www.nap.edu/catalog.php?record_id=12910	2010	
NRC	<i>Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research</i> National Academies Press	2003	
NRC	<i>Service Policy and Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training</i> National Academies Press	1985	
NRC	<i>Scientific and Humane Issues in the Use of Random Source Dogs and Cats</i> National Academies Press	2009	
NRC	<i>Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research</i> National Academies Press	2003	
NRC	<i>The Psychological Well-Being of Nonhuman Primates</i>	1998	
National Turkey Federation	<i>Animal Care Best Management Practices: Production Guidelines</i> Available on request from: National Turkey Federation, 1225 New York Avenue, NW Suite 400 Washington, DC 20005 (Phone: 202/898-0100)	2009	
OLAW	<i>Institutional Animal Care and Use Committee Guidebook (2nd edition)</i> Department of Health and Human Services, Office of Laboratory Animal Welfare (OLAW)	2002	
OLAW	<i>Public Health Service Policy on Humane Care and Use of Laboratory Animals</i>	2002	

	Department of Health and Human Services, Office of Laboratory Animal Welfare (OLAW)		
Podolsky ML, Lukas VS	<i>The Care and Feeding of an IACUC</i> CRC Press	1999	
National Toxicology Program (<i>Advocate 3-R's for toxicological testing</i>)	(1) The NTP Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM) (2) Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM) http://iccvam.niehs.nih.gov/	Current	

Task 9A & 9B. Contemporary Animal Welfare Issues

AUTHOR/EDITOR	TITLE AND PUBLISHER	YEAR	*
Appleby MC, Cussen V, Garcés L, Lambert LA, Turner J	<i>Long Distance Transport and Welfare of Farm Animals</i> CABI	2008	*
Appleby MC, Mench JA, Hughes BO	<i>Poultry Behaviour and Welfare</i> CABI Publishing	2004	*
Bayne K, Turner PV (ACLAM Series)	<i>Laboratory Animal Welfare: Practice and Ethics</i> Academic Press	2014	*
Beaver VB, Hoglund DL	<i>Efficient Livestock Handling: The Practical Application of Animal Welfare and Behavioral Science</i> Academic Press	2016	*
Benson GJ, Rollin BE	<i>The Well-Being of Farm Animals: Challenges and Solutions</i> Blackwell	2004	
Dierauf LA, Gulland FMD	<i>The CRC Handbook of Marine Mammal Medicine (2nd edition), especially chapters 13, 32, 33</i> CRC Press	2001	*
Dwyer CM	<i>The Welfare of Sheep</i> Springer	2008	
Forthman, DL	<i>Elephant in the room: the science and well-being of elephants in captivity</i> Tufts Center for Animals and Public Policy	2009	
Fox JG et al.	Laboratory Animal Medicine (Second Edition); selected chapters	2002	
Fraser AF	<i>The Behaviour and Welfare of the Horse (Second Edition)</i> CABI	2010	
Grandin T	<i>Humane Livestock Handling</i> Storey Publishing	2008	
Grandin T	<i>Livestock Handling and Transport</i> CABI	1993	
Hosey G, Melfi V, and Pankhurst S	<i>Zoo Animals: behaviour, management, and welfare, 2nd edition</i> Oxford University Press	2013	
Hubrecht RC	<i>The Welfare of Animals Used in Research</i> UFAW/Wiley-Blackwell	2014	
Kaliste E	<i>The Welfare of Laboratory Animals</i> Springer	2004	
Marchant-Forde JN	<i>The Welfare of Pigs</i> Springer	2009	*
McIlwraith CW, Rollin	<i>Equine Welfare (UFAW Animal Welfare Series)</i>	2011	

BE	Wiley-Blackwell, ISBN: 978-1-4051-8763-3		
NRC	<i>The Psychological Well-Being of Nonhuman Primates</i> National Academies Press	1999	
Phillips C	<i>Cattle Welfare and Behavior</i> , 2 nd edition Iowa State Press	2002	*
Phillips C	<i>The Animal Trade</i> www.cabi.org	2015	
Price EO	<i>Principles & Applications of Domestic Animal Behavior</i> CABI	2008	
Rochlitz I	<i>The Welfare of Cats</i> Springer	2005	
Rushen J, de Passille AM, von Keyserlingk AG, Weary DM	<i>The Welfare of Cattle</i> Springer	2008	
Saif YM, Fadly AM, Glisson JR, McDougald JR, Nolan LK, Swayne DE	<i>Diseases of Poultry</i> , 12th Edition Wiley (E-book also available)	2008	
Stafford K	<i>The Welfare of Dogs</i> Springer	2006	
Tudge C	<i>Last Animals at the Zoo</i> Oxford University Press	1991	
van de Weerd HA	<i>Environmental Enrichment for Laboratory Mice: Preferences and Consequences</i> Universiteit Utrecht/Print Partners Free online at http://igitur-archive.library.uu.nl/dissertations/01801846/inhoud.htm	1996	
Velarde A, Geers R	<i>On farm monitoring of pig welfare</i> , Wageningen Academic Publishers	2007	
Waran N	<i>The Welfare of Horses</i> Kluwer Academic Publishers	2002	
Wolfensohn S, Lloyd M	<i>Handbook of Laboratory Animal Management and Welfare</i> , 4 th Edition Wiley-Blackwell Publishing	2013	
Webster J	<i>Management and Welfare of Farm Animals: The UFAW Farm Handbook</i>	2011	
Young RJ (UFAW)	<i>Environmental Enrichment for Captive Animals (UFAW)</i> Blackwell Science LTD	2003	

Section II: Seminal articles, Issues, Proceedings, & Web sites

AUTHOR/EDITOR	TITLE AND JOURNAL VOLUME & PAGES	DATE	*
Hendriksen CFM, Morton DB, Netherlands Association for Laboratory Animal Science	<i>Humane Endpoints in Animal Experiments for Biomedical Research: Proceedings of the International Conference, 22-25 November 1998, Zeist, the Netherlands</i> Open access, order via CD (2006): http://www.nc3rs.org.uk/category.asp?catID=21	1998	
ILAR Various Authors	Humane endpoints for animals used in biomedical research and testing ILAR J 41(2):59-123.	2000	
ILAR Various Authors	Regulatory testing and animal welfare. ILAR J 43(Supplement):S1-S133.	2002	
ILAR Various Authors	Use of amphibians in the research, laboratory, or classroom setting. ILAR J 48(3):179-310.	2007	
ILAR Various Authors	Contemporary topics for animal care committees ILAR J 48(1):1-64.	2007	
ILAR Various Authors	Preparation of animals for use in the laboratory. ILAR J 47(4):281-390.	2006	
ILAR Various Authors	Enrichment strategies for laboratory animals. ILAR J 46(2):79-226.	2005	
OIE; World Organisation for Animal Health	Animal Welfare: Global Issues, Trends and Challenges, Vol. 24 (2)	2005	*
AVMA	AVMA animal welfare web site policies and backgrounders, AVMA Guidelines on Euthanasia, AVMA Principles of Animal Welfare, Position Statement on Animal Abuse and Neglect, Veal Calf management www.avma.org	current	*
Animal Welfare Acts and Amendments	http://awic.nal.usda.gov/government-and-professional-resources/federal-laws/animal-welfare-act	2006+	*
Horse Protection Act, Marine Mammals Protection Act, etc	http://www.aphis.usda.gov/animal_welfare/hp/index.shtml	1970, 2007+	*
Humane Methods of Slaughter Act	http://awic.nal.usda.gov/government-and-professional-resources/federal-laws/humane-methods-slaughter-act	1978	*
CITES	Cites website and associated documents http://www.cites.org/	current	*
Georgetown University Law Center	List of International Animal Law Documents http://www.ll.georgetown.edu/guides/InternationalAnimalLaw.cfm#ForeignLaw	2012	
OIE	World Organisation for Animal Health, Terrestrial Animal Code (Twentieth edition), Chapter 7.8. Use of Animals in Research and Education Http://www.oie.int/eng/normes/mcode/en_chapitre_1.7.8.htm	2011	*
NRC	Effective Pain Management. Recognition and Alleviation of Pain in Laboratory Animals	2009	*

Current On line Courses (Recommended for Training)

AUTHOR/EDITOR	TITLE AND PUBLISHER	*
University of Guelph	Equine Welfare www.EquineWelfareCertificate.com http://www.coles.uoguelph.ca/offering/offering.aspx?hold=y&id=3740	
University of Edinburgh	Animal Behavior and Welfare http://www.ed.ac.uk/studying/postgraduate/degrees?id=238&cw_xml=details.php	
University of Edinburgh	International Animal Welfare, Ethics & Law http://www.ed.ac.uk/studying/postgraduate/degrees?id=788&cw_xml=details.php	
University of Winchester	Animal Welfare Science, Ethics and Law http://www.winchester.ac.uk/Studyhere/Pages/msc-animal-welfare-science-ethics-and-law.aspx	

Section III: Journal List in the Field of Animal Welfare Science (in alphabetical order)

First Tier	Second Tier
Animal Behaviour	Acta Veterinaria Scandinavia
Animal Welfare	Alternatives to Laboratory Animals
Anthrozoos	Australian Veterinary Journal
Applied Animal Behaviour Science	Canadian Veterinary Journal
ILAR Journal	Journal of Veterinary Medical Education
Journal of the American Association for Laboratory Animal Science	Behaviour
Journal of Applied Animal Welfare Science	Journal of Veterinary Behavior: Clinical Applications and Research
Journal of the AVMA	Research in Veterinary Science
Lab Animal	The Shape of Enrichment
Laboratory Animals	
Nature	
Revue Scientifique et Technique (OIE Journal)	
Science	
Veterinary Journal	
Veterinary Record	
Veterinary Quarterly	

ACAW Revised 11-15-15
www.acaw.org

I. CATALOG INFORMATIONA. Discipline: EXOTIC ANIMAL TRAINING MANAGEMENT (EATM)B. Subject Code and Number: EATM M27C. Course Title: Animal Ethical and Legal Issues

D. Credit Course units:

Units: 2Lecture Hours per week: 2Lab Hours per week : 0Variable Units : No

E. Student Learning Hours:

Lecture Hours:

Classroom hours: 35 - 35

Laboratory/Activity Hours:

Laboratory/Activity Hours 0 - 0**Total Combined Hours** in a 17.5 week term: 35 - 35F. Non-Credit Course hours per week G. May be taken a total of: ☒ 1 ☐ 2 ☐ 3 ☐ 4 time(s) for creditH. Is the course co-designated (same as) another course: No ☒ Yes ☐If YES, designate course Subject Code & Number:

I. Course Description:

Introduces the ethical issues involving animal ownership and use in research, education, food production, exhibition, entertainment and animals as companions. Examines major animal rights groups, the legal issues relating to animal care and treatment, and local to international regulatory agencies involved.

J. Entrance Skills

*Prerequisite: No ☐ Yes ☒ Course(s)
Admission to the EATM program.

*Corequisite: No ☒ Yes ☐ Course(s)

Limitation on Enrollment: No ☒ Yes ☐

Recommended Preparation: No ☒ Yes ☐ Course(s)

Other:

No ☒ Yes ☐

K. Other Catalog Information:

(Formerly ANSC M30.)

II. COURSE OBJECTIVES

Upon successful completion of the course, a student will be able to:

		Methods of evaluation will be consistent with, but not limited by, the following types or examples.
1	discuss the classification of animals (pets, domestic animals, stray animals, feral animals, semi-wild animals, and wild animals) and the ethical implications of these categories.	Examination
2	list the major animal rights groups and discuss the history and philosophy of each.	Examination Written paper
3	compare and contrast the positions of animal rights groups, animal welfare groups, and animal research and other animal use groups.	Examination
4	discuss the ethical issues of pet and wild animal interbreeding.	Examination
5	discuss the ethical issues currently involving the role of genetics in animal reproduction including cloning, asexual reproduction, genetic manipulation for specific characteristics, and creation of new organisms genetically.	Examination
6	identify and contrast the differences between animal environments and animal agri-business.	Examination Written paper
7	explain the 3 R's (replacements, reduction, and refinement) as applied to animal use.	Examination
8	list and discuss the major legal issues involving animal ownership and use.	Examination
9	compare and contrast the roles of animal control agencies and humane societies.	Examination
10	list and describe the agencies that enforce laws relating to animals at the local (city, county, and/or special district), state, national, and international level and the jurisdiction of each level.	Examination
11	appraise the Institutional Animal Care and Use Committees (IACUCs) required by the U.S. Department of Agriculture (USDA) and The Animal Welfare Act for institutions that use animals in research.	Examination

III. COURSE CONTENT

Estimated %	Topic	Learning Outcomes
Lecture (must total 100%)		
5.00%	History Behind the Animal Rights/Welfare Movement	2, 3
10.00%	America's New Extremists: The Animal Rights Movement	2, 3
5.00%	Why Study Animal Ethics?	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
10.00%	Philosophy Behind the Animal Rights/Welfare Movement	2, 3
5.00%	The 3 R's as Applied Practically to Animal Use – IACUCs	7, 11
5.00%	The Basic Legal System Affecting Animal Welfare	1, 3, 8
10.00%	Specific Cases of Animal Welfare	4, 5, 6, 7, 9
5.00%	Why Animals Are Needed in Research	7, 11
10.00%	Ethics of Animal Use	5, 6, 11
5.00%	Animal Environments and "Agri-ethics"	6
10.00%	Zoo, Wildlife, Entertainment and Utility Animals	1, 2, 3, 4, 8, 9
20.00%	Debate on animal ethical and legal issues.	2, 3, 4, 5, 8, 9, 10, 11

IV. TYPICAL ASSIGNMENTS**A. Writing assignments**

Writing assignments are required. Possible assignments may include, but are not limited to:	
1	research and write a term paper on a debate topic on animal ethics and legal issues.
2	keep a journal to record reactions to class discussions or outside readings.
3	write a statement of personal philosophy on a given topic.
4	write essays on assigned topics.
5	record a summary and analysis of guest lecture or other outside-of-class presentation.
6	write reaction statements to in-class discussions.

B. Appropriate outside assignments

Appropriate outside assignments are required. Possible assignments may include, but are not limited to:	
1	keep a record of field observations.
2	participate in a cooperative group planning for oral presentations on such topics as the use of animals in entertainment.
3	attend/visit an event directly related to a course assignment.

C. Critical thinking assignments

Critical thinking assignments are required. Possible assignments may include, but are not limited to:	
1	evaluate Internet research information for currency and reliability.
2	participate in discussions/debates in class on ethical issues.

1	evaluate Internet research information for currency and reliability.
2	participate in discussions/debates in class on ethical issues.

V. METHODS OF INSTRUCTION

Methods of instruction may include, but are not limited to:

- ☐ Distance Education – When any portion of class contact hours is replaced by distance education delivery mode (Complete DE Addendum, Section XV)
- ☒ Lecture/Discussion
- ☐ Laboratory/Activity
- ☒ Other (Specify) Lecture/Discussion, guest speakers
- ☒ Optional Field Trips
- ☐ Required Field Trips

VI. METHODS OF EVALUATION

Methods of evaluation may include, but are not limited to:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> Essay Exam | <input checked="" type="checkbox"/> Classroom Discussion | <input checked="" type="checkbox"/> Skill Demonstration |
| <input checked="" type="checkbox"/> Problem Solving Exam | <input checked="" type="checkbox"/> Reports/Papers/Journals | <input checked="" type="checkbox"/> Participation |
| <input checked="" type="checkbox"/> Objective Exams | <input checked="" type="checkbox"/> Projects | <input checked="" type="checkbox"/> Other (specify) |

Debate on ethical topics, demonstration of skill in answering questions.

VII. REPRESENTATIVE TEXTS AND OTHER COURSE MATERIALS

Appleby, Michael C., et al. eds. Animal Welfare. 2nd ed. Centre for Agricultural Bioscience International (CABI), 2011.

Irwin, Mark D., John B. Stoner, and Aaron M. Cobaugh, eds. Zookeeping: An Introduction to the Science and Technology. U. of Chicago, 2013.

VIII. STUDENT MATERIALS FEES

☒ No ☐ Yes

IX. PARALLEL COURSES

College	Course Number	Course Title	Units

Los Angeles Pierce College	ANML SC 120	Ethical Issues in Using Animals	3
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X. MINIMUM QUALIFICATIONS**Courses in Disciplines in which Masters Degrees are not expected:**

Any bachelor's degree and two years of professional experience, or any associate degree and six years of professional experience.

XI. ARTICULATION INFORMATION**A. Title V Course Classification:**

1. This course is designed to be taken either:

- ☐ Pass/No Pass only (no letter grade possible); or
☒ Letter grade (P/NP possible at student option)

2. Degree status:

Either ☒ Associate Degree Applicable; or ☐ Non-associate Degree Applicable

B. Moorpark College General Education:

1. Do you recommend this course for inclusion on the Associate Degree General Education list?

Yes: ☐ No: ☒ If YES, what section(s)?

- ☐ A1 - Natural Sciences - Biological Science
☐ A2 - Natural Sciences - Physical Science
☐ B1 - Social and Behavioral Sciences - American History/Institutions
☐ B2 - Social and Behavioral Sciences - Other Social Behavioral Science
☐ C1 - Humanities - Fine or Performing Arts
☐ C2 - Humanities - Other Humanities
☐ D1 - Language and Rationality - English Composition
☐ D2 - Language and Rationality - Communication and Analytical Thinking
☐ E1 - Health/Physical Education
☐ E2 - PE or Dance
☐ F - Ethnic/Gender Studies

C. California State University(CSU) Articulation:

1. Do you recommend this course for transfer credit to CSU? Yes: ☐ No: ☒

2. If YES do you recommend this course for inclusion on the CSU General Education list?

Yes: ☐ No: ☒ If YES, which area(s)?

- A1 ☐ A2 ☐ A3 ☐ B1 ☐ B2 ☐ B3 ☐ B4 ☐
C1 ☐ C2 ☐ D1 ☐ D2 ☐ D3 ☐ D4 ☐ D5 ☐
D6 ☐ D7 ☐ D8 ☐ D9 ☐ D10 ☐ E ☐

D. University of California (UC) Articulation:

1. Do you recommend this course for transfer to the UC? Yes: ☐ No: ☒
2. If YES do you recommend this course for the Intersegmental General Education Transfer Curriculum (IGETC)? Yes: ☐ No: ☒

IGETC Area 1: English Communication

- ☐ English Composition
- ☐ Critical Thinking-English Composition
- ☐ Oral Communication

IGETC Area 2: Mathematical Concepts and Quantitative Reasoning

- ☐ Mathematical Concepts

IGETC Area 3: Arts and Humanities

- ☐ Fine Arts
- ☐ Humanities

IGETC Area 4: Social and Behavioral Sciences

- ☐ Anthropology and Archaeology
- ☐ Economics
- ☐ Ethnic Studies
- ☐ Gender Studies
- ☐ Geography
- ☐ History
- ☐ Interdisciplinary, Social & Behavioral Sciences
- ☐ Political Science, Government & Legal Institutions
- ☐ Psychology
- ☐ Sociology & Criminology

IGETC Area 5: Physical and Biological Sciences (mark all that apply)

- ☐ Physical Science Lab or Physical Science Lab only (non-sequence)
- ☐ Physical Science Lecture only (non-sequence)
- ☐ Biological Sciences
- ☐ Physical Science Courses
- ☐ Physical Science Lab or Biological Science Lab Only (non-sequence)
- ☐ Biological Science Courses
- ☐ Biological Science Lab course
- ☐ First Science course is a Special sequence
- ☐ Second Science course in a Special Sequence

☐ Laboratory Activity☐ Physical SciencesIGETC Area 6: Language other than English☐ Languages other than English (UC Requirement Only)☐ U.S. History, Constitution, and American Ideals (CSU Requirement ONLY)**XII. REVIEW OF LIBRARY RESOURCES**

- A. What planned assignment(s) will require library resources and use?

The following assignments require library resources:

Research, using the Library's print and online resources, for position papers and research paper concerning animal ethics.

- B. Are the currently held library resources sufficient to support the course assignment?

YES: ☒ NO: ☐

If NO, please list additional library resources needed to support this course.

XIII. PREREQUISITE AND/OR COREQUISITE JUSTIFICATION

EATM M27: Not Applicable

XIV. WORKPLACE PREPARATION

Required for career technical courses only. A career technical course/program is one with the primary goal to prepare students for employment immediately upon course/program completion, and/or upgrading employment skills.

Detail how the course meets the Secretary of Labors Commission on the Achievement of Necessary Skills (SCANS) areas. (For a description of the competencies and skills with a listing of what students should be able to do, go to:

<http://www.ncrel.org/sdrs/areas/issues/methods/assment/as7scans.htm>)

The course will address the SCANS competency areas:

1. Resources: the students will critically assess electronic sources of information regarding animal ethical and legal issues.
2. Interpersonal: the students will meet other students who share similar interests and gain an understanding of their own uniqueness and similarities to those who work in the animal field.
3. Information: the students will use course information to complete the course assignments and carry the information outside the class for use in other classes and in their career.
4. Systems: the students will understand how the legal and regulatory systems function in the animal field.

5. Technology: the students will utilize the Internet and online Library databases to obtain legal information and information on animal welfare and animal rights groups.

The course also addresses the SCANS skills and personal qualities:

1. Basic Skills: the students will interpret written information, listen to guest speakers and contribute to the class discussion.
2. Thinking Skills: the students will reason and evaluate new information in the field of animal ethics.
3. Personal Qualities: the students will show responsibility and self-management in successfully completing the course and examinations.

XV. DISTANCE LEARNING COURSE OUTLINE ADDENDUM

EATM M27: Not Applicable

XVI. GENERAL EDUCATION COURSE OUTLINE ADDENDUM

EATM M27: Not Applicable

XVII. STUDENT MATERIALS FEE ADDENDUM

EATM M27: Not Applicable

XVIII. REPEATABILITY JUSTIFICATION TITLE 5, SECTION 55041

EATM M27: Not Applicable

XIX. CURRICULUM APPROVAL

A. Course Information:

1. Discipline: EXOTIC ANIMAL TRAINING MANAGEMENT (EATM)
2. Discipline Code and Number: EATM M27
3. Course Revision Category: Substantial Course Revision

B. Course Proposed By:

1. Originating Faculty Cynthia Stringfield 10/16/2014
2. Faculty Peer: Brenda Woodhouse 10/21/2014
3. Curriculum Rep: Jerry Mansfield 11/11/2014
4. Department Chair: Cynthia Stringfield 10/22/2014
5. Division Dean: Kimberly Hoffmans 10/29/2014

C. Approved By:

Curriculum Chair: Jerry Mansfield 03/06/2015
Executive Vice President: Lori Bennett 03/16/2015
Articulation Officer: Letrisha Mai 11/19/2014
Librarian: Mary LaBarge 11/18/2014

- D. Implementation Term and Year: Fall 2015
- E. Approval Dates:
1. Approved by Moorpark College Curriculum Committee: 03/03/2015
 2. Approved by Board of Trustees (if applicable): 04/14/2015
 3. Approved by State (if applicable): 04/30/2015