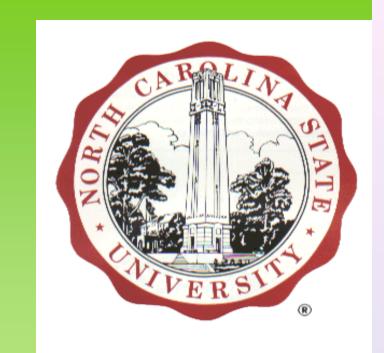


Veterinary Interest Areas of Students Enrolled in a **PreVeterinary Track Professional Development Course**



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Abstract

A unique professional development course for PreVeterinary track students (ANS 495) was developed in the Animal Science Department at the NC State University in 2011. It was offered to the PreVet students during with the two-fold objectives (a) educating students about the expanse of veterinary profession and (b) assist students in developing an understanding of the DVM application procedure. Students were surveyed for their choice of veterinary interest areas as a future veterinarian in Spring 2011 (43 students) and Spring 2012 (52 students) at the beginning of the course (Pretest). The students were also surveyed on the level of confidence in their decision to apply to veterinary school and become a veterinarian. The highest response rate for the veterinary interest areas was earned by two categories, namely, small animal veterinarian and exotic/wildlife veterinarian. In 2011, 32% of total student responses indicated that they wanted to be small animal veterinarians while 25% aspired to be an exotic/wildlife veterinarian. In 2012, 30% of total responses indicated small animal veterinarian and another 22% for exotic/wildlife veterinarian. However, after enrolling in the course, the response rates shifted. 29% of students became interested in "other" fields such as lab animal medicine, research, military, and public health. In both the years, 66% students cited feeling extremely confident about their decision to be a veterinarian. Recognizing these interests in diverse aspects of veterinary medicine is key in comprehending the choices that the Pre-Veterinary track students make while planning their undergraduate curriculum, internships, and extra-curricular experiences.



Background

- o In 2009 there were 87,998 veterinarians, with 60,895 in private practice, 15, 179 in public/corporate, 15,092 employment unknown¹
- o The greatest veterinarian shortages are in the food, public health, pathology, and lab animal sectors.1
- o Is there currently an overall shortage of veterinarians? The National Research Council's project "Assessing the Current and Future Workforce Needs in Veterinary Medicine" is in progress.¹
- o Eight schools have 80 slots or less; Ten schools have 80-100 slots; Ten schools have 100 slots or more. ²

Methods and Development

Step 1: Brainstormed lesson plans that would introduce students to the expanse of the veterinary profession, the admissions process, and how to strengthen their individual portfolio

Step 2: Drafted lesson plans and invited guest speakers to present individual lectures and share their "expertise" on corresponding topics **Step 3**: Developed associated assignments that cemented the general message of the lesson plan and gauge student learning

Step 4: Generated a retrospective pre/post-survey containing questions assessing students' perception of what DVM admissions committees look for in applicants

Step 5: Obtained IRB approval for the pre/ post-survey (IRB#: 1191-

Step 6: Received student consent and administered pre-surveys to student participants before the lecture series

Step 7: Implemented the lesson plan series over a period of fourteen

Step 8: Received student consent and administered post-surveys to student participants after the lecture series

Step 9: Administered a critical reflection to assess student learning throughout the course, as well as receive student feedback on how the course may have affected their professional development.

Course Outline

Course Objectives

To develop a 14-week professional development course targeting pre-veterinary track individuals, so as to:

a) Introduce students to the scope of veterinary profession, including current issues affecting the veterinary profession.

b) Assist students in gaining a detailed understanding of the veterinary school application procedure, as well as ways to diversify and strengthen their individual portfolios.

Course Structure

- 1 credit hour (Friday 12.25-1.15p, Spring only)
- Lectures, seminars, field visits
- 2 Teaching Assistants (current applicants)
- Weekly Assessments + Final Paper

re		Lecture	Topic(s)
		1	Introduction, VetPAC & its resources
		2	Veterinary Profession & its scope
		3	Current issues facing Veterinary Profession
		4	Vet School Admissions at CVM-NCSU
		5	Online Application System- VMCAS
		6	Writing a Personal Statement
		7	Vet School Interviews
		8	Lab animal Medicine
		9	Dual-Degree Options
		10	Building Diversity in a portfolio
		11	Field Trip to NCSU Open House
		12	Reflections of Current DVM students
		13	Meet & Greet- Large/Exotic Animal Vet
		14	Plan B Options

Series

Data Analysis

Document analysis:

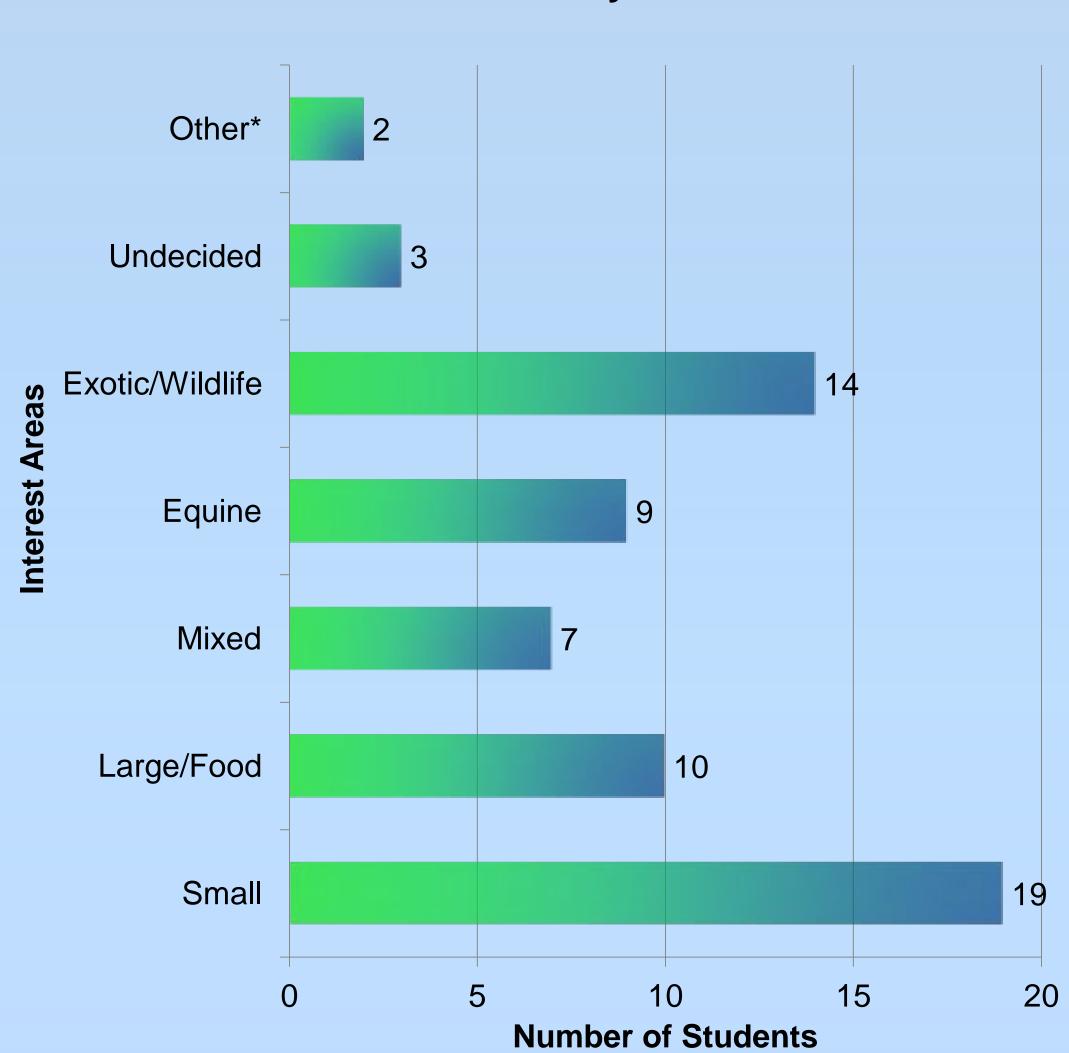
- Documents from the pre-veterinary student professional development course include: weekly assignments, a final critical reflection on the course, as well as IRB approved pre/post-surveys.
- Weekly assignments and critical reflection analyzed to gauge student responses and learnings; pre/post-survey used to measure student perceptions on admissions criteria.
- Questionnaire included:
 - What kind of veterinarian do you want to become?
 - Some students gave multiple answers.
 - Common responses included: small, large/food, exotic/wildlife, equine, mixed animal practitioner.
 - How confident are you in your decision to become a veterinarian?
 - Response choices included: Extremely confident, reasonably confident, somewhat confident, and not confident at all.

Results

Pre-Test Data



Pre-Test Veterinary Interest Areas

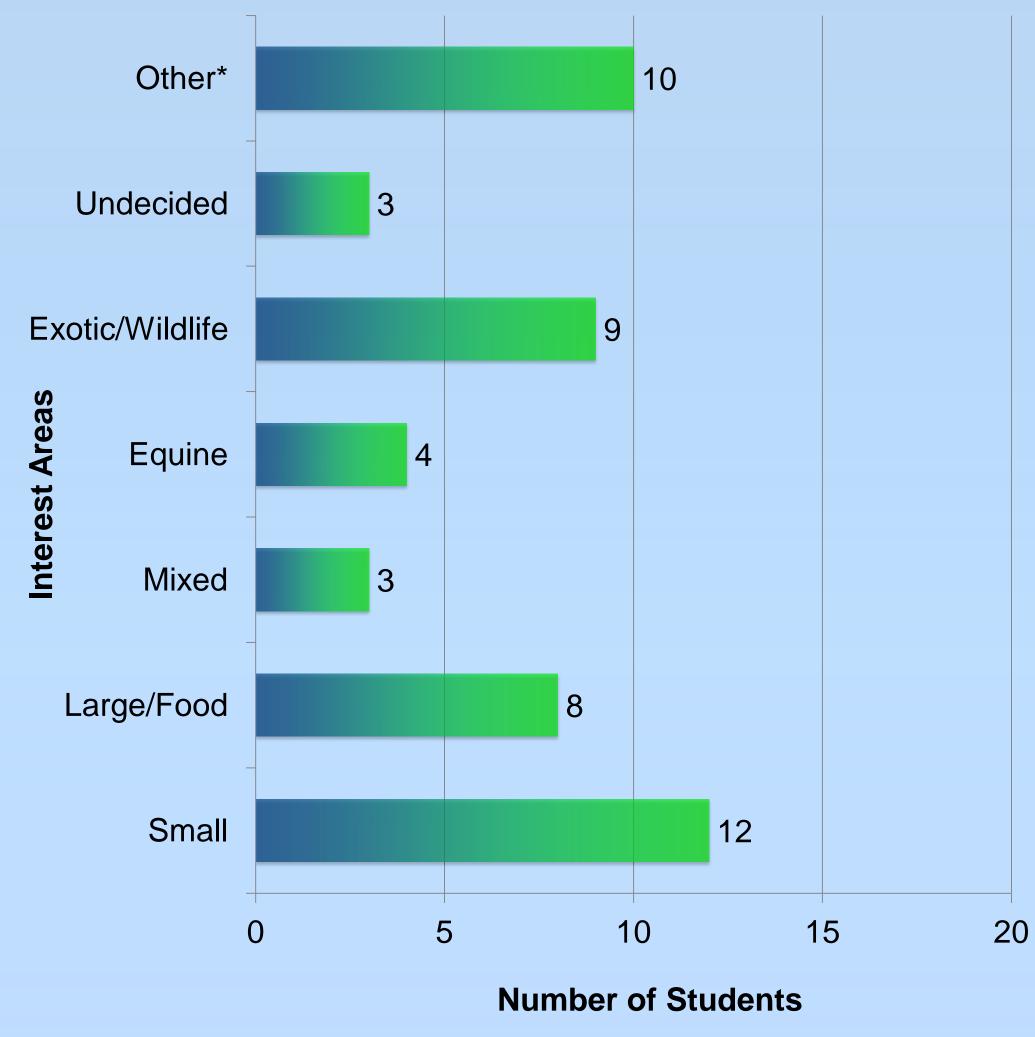


Interpretation

- Overall, the class's confidence about becoming veterinarians did not significantly change.
- However, 3% of students considered changing career focus.
- "Other" is defined as research, academia, military, public health, and lab animal medicine.
- There was a 6-fold increase in total response interested in "other" career opportunities after being enrolled in the course.
- There was a 17% decrease in total response rate for small animal medicine
- There was an 18% decrease in total response rate for exotic/ wildlife interest.

Post-Test Data Post-Test Confidence Extremely Reasonably Somewhat 67% ■ Not at all

Post-Test Veterinary Interest Areas



Conclusions

After enrolling in the Pre-Veterinary track development course, many students shifted their interests away from the original small and exotic animal majority and towards other fields. Three students are now considering lab animal medicine, compared to zero in the pre-test. This suggests that being enrolled in this course has a positive association with changing one's initial interests.

Reading the final critical reflections may explain this relationship. A majority of students' shifts occurred due to the impact of guest speakers and exposure to unique opportunities outside of their original interests. Exposing prevets to the scope of the veterinary field through professional development courses may help fill gaps in shortage areas.

Works Cited

- 1) Bristol, DVM David "Veterinary Shortage Areas"
- 2) NC State University College of Veterinary Medicine Student Services Office. "Veterinary Admissions 2011 Cycle Review Session. "April 20, 2011 http://cvm.ncsu.edu/studentservices/documents/FAQ_DVM2011ApplicantReviewSession.pdf