

# CURRICULUM NEWSLETTER

**Animal Science 067**  
**April 1, 2008**

TO: Students/Faculty

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## WELCOME CLASS OF 2011

Eighty-seven first-year students have declared Animal Science as a major. Our faculty and majors extend a warm welcome to you. **Each first-year student was assigned an advisor. Please seek his/her help when registering and developing career goals.** Seek and utilize all the information and help available to ensure your success.

## INFORMATION YOU NEED

This newsletter and the Animal Science web site (<http://animalsciences.rutgers.edu/undergraduate/ug-curriculum.html>) contain the latest information concerning registration, 067 course offerings, 067 course synopses, recommended sequence of courses, and an archive of previous curriculum newsletters. Use this information in conjunction with your advisor to develop your program and achieve your career goal.

## USE DEGREE NAVIGATOR TO PLAN/REVIEW GRADUATION REQUIREMENTS

The Degree Navigator (DN) program (<http://nbdn.rutgers.edu>) lists courses completed by a student. The program also visualizes and records course completion for the college, major (curriculum option), and/or minor requirements. The DN serves as an important advising tool for both student and faculty advisor, and as a record of completion of curriculum requirements. Majors/options declared through the Office of Academic Programs and Research, Room 205, Martin Hall, are programmed in DN. When majors/options are changed, this needs to be processed through Martin Hall. Course substitutions with advisor approval can be submitted on a "Request to Update Individual Program in DN" form to Room 205, Martin Hall. For help/questions contact Dr. Wohlt.

## 2007-2009 NEW BRUNSWICK UNDERGRADUATE CATALOG IS ONLINE

Please view/review a description of the Animal Science 067 program ([http://catalogs.rutgers.edu/generated/nb-ug\\_current/pg21043.html](http://catalogs.rutgers.edu/generated/nb-ug_current/pg21043.html)); graduation requirements for the major ([http://catalogs.rutgers.edu/generated/nb-ug\\_current/pg23715.html](http://catalogs.rutgers.edu/generated/nb-ug_current/pg23715.html)); the minor in Animal Science ([http://catalogs.rutgers.edu/generated/nb-ug\\_current/pg21091.html](http://catalogs.rutgers.edu/generated/nb-ug_current/pg21091.html)); the minor in Equine Science ([http://catalogs.rutgers.edu/generated/nb-ug\\_current/pg21098.html](http://catalogs.rutgers.edu/generated/nb-ug_current/pg21098.html)); and courses in Animal Science ([http://catalogs.rutgers.edu/generated/nb-ug\\_current/pg21139.html](http://catalogs.rutgers.edu/generated/nb-ug_current/pg21139.html)).

## PRACTICUMS OFFERED SUMMER/FALL 2008: REGISTERING

For all practicums, speak with each instructor and establish course and time requirements. Only then will they issue you a special permission number. Summer sections B1-4 are held May 27-July 3; sections H1-4, July 7-August 13.

<b>Species</b>	<b>Summer 2008</b>	<b>Fall 2008</b>	<b>Instructor</b>
Dairy	Anim Prac 200: B1; 204: H1	Anim Prac 200: DC	Bugowski 732-932-9300
Horse	Not offered	Anim Prac 200: HO	Ralston 732-932-9404
Lab Animal	Anim Prac 200: B2; 204: H2	Anim Prac 200: LA	Katz 732-932-7426
Sheep/Goats	Anim Prac 200: B3; 204: H3	Anim Prac 200: SH	Comerford 732-932-9350
Swine	Anim Prac 200: B4; 204: H4	Anim Prac 200: SW	Comerford 732-932-9350

### **BE CLEARED TO WORK WITH ANIMALS**

Certain courses (Animal Practicum; Animal Handling, Fitting and Exhibition; Animal Nutrition Lab; Dairy Cattle AI, etc.) require work with animals. These courses have protocols that have been reviewed and approved by the Rutgers University Animal Care and Facilities Committee. A condition of enrollment is that students complete an Occupational Health Questionnaire and be cleared to work with animals. Clearance may span 1 to 5 years depending on your health. To obtain a health questionnaire, register at <http://orsp.rutgers.edu/acfc/?csid=156>. You will be emailed a health questionnaire (your name will be typed on the form). Please fill out, sign, and submit this form directly to the Occupational Health Department at Hurtado Health Center. The information you provide is kept confidential. For your own health and safety, please comply with these regulations.

### **ANIMAL NUTRITION ONLINE SUMMER 2008 IS OPEN TO 067 MAJORS**

This 3-credit online course is open to matriculated Rutgers students **only** during the Summer Session. Anticipated student costs are: Summer Session fee, \$125; tuition \$310.80/cr NJ resident, \$653.70/cr nonresident; off campus/computer course fee ~\$150. The course is taught by Dr. Perri Stark. Students access course material online through eCollege. The lecture material consists of full text, animations, and simulations with transcripts and audio, images, self-tests, and a hyperlink dictionary. Students will be able to interact with the instructor and other students through emails, group discussion, and chats. This course is divided into three general topics: digestive anatomy and physiology, the biochemistry of nutrients, and the feeding requirements of three physiological states (maintenance, pregnancy, and lactation). Exams will be primarily short answer and essay and will be completed by students online. The online course provides students with a unique and important experience. Students who have previously taken the online course liked the ability to interact with the lecture material and to study the course material at a time and location convenient for them. However, many students came to realize that taking an online course requires a higher level of initiative and self-discipline than attending an on-site course. These pros and cons should be considered before registering. A special permission number must be obtained from Dr. Stark ([stark@aesop.rutgers.edu](mailto:stark@aesop.rutgers.edu)) to register. All students majoring in Animal Science will also need to complete Animal Nutrition Laboratory (11:067:331), which is **only** offered during the fall semester.

### **RESEARCH IN ANIMAL SCIENCE 11:067:493/494 OFFERED SUMMER/FALL 2008: REGISTERING**

Permission of the instructor is required to conduct individual Animal Science projects under faculty guidance. Research may be conducted with any 067 faculty member. Please visit with individual faculty to make these arrangements. Dr. Wohlt ([wohlt@aesop.rutgers.edu](mailto:wohlt@aesop.rutgers.edu)) issues special permission numbers on behalf of the faculty **only** during the summer sessions.

### **GENERAL MICROBIOLOGY 11:680:390 OFFERED AT COOK SUMMER 2008**

Two sections (H1, H2) of General Microbiology 11:680:390 will be offered July 7 to August 13 at Cook. The lecture is offered MTWTH 9:30-11:20 a.m. and laboratories on MW 12:00-3:30 p.m. (H1) or TTH 12:00-3:30 p.m. (H2).

### **TAKING SUMMER COURSES OUTSIDE OF RUTGERS? GET THEM PREAPPROVED.**

Courses taken outside of Rutgers can be preapproved to fulfill college-area requirements or be equivalent to a Rutgers course. Forms can be obtained from and submitted to Academic and Student Programs, Room 205, Martin Hall.

### **FULFILLING YOUR EXPERIENCE-BASED EDUCATION**

The Animal Sciences faculty places major emphasis (total of 9 credits from two or more courses) on this component of your education, as it is critical to your entrance into and success in a career. Appropriate cooperative education placements (see <http://aesop.rutgers.edu/~coop>), practicums, or research projects with faculty (Research in Animal Science, G.H. Cook Honors Program) fulfill this requirement. Livestock Production and Management I and II are also now approved as experience-based education for the Laboratory Animal and Preveterinary Medicine/Research

options. Courses chosen to fulfill this requirement should provide you with the appropriate skills and experience needed to achieve your career goals. **Seek your advisor's help.**

### **STUDENT CLUBS: GET INVOLVED! WHY?**

The Animal Science program/faculty advisors work closely with four student clubs:

- RU Equine Science Club
- RU Seeing Eye Puppy Raising Club
- RU Veterinary Science Club
- Society of Animal Science

In these clubs you get to hear/interact with speakers, take field trips and be involved in programs/activities (Northeast Student Affiliate Competition, Veterinary contract seat issue, Ag Field Day, etc.) that benefit you and others. What's in it for you? Club involvement gives you the opportunity to gain **experience**, expand your **knowledge**, develop **leadership skills**, and obtain **professional development**. Each one of these benefits is key to your continuing education and career.

### **CONSIDERATIONS FOR PREVETERINARY STUDIES**

- Economic Systems:** The Preveterinary Medicine/Research option requires one course: Economics, People and Environment (11:373:101). Consideration should be given to taking the two-semester course sequence as an equivalent: Principles and Applications of Microeconomics (11:373:121) or Introduction to Microeconomics (01:220:102) and then Introduction to Macroeconomics (01:220:103). The two-semester course sequence may be a wise choice for you for two reasons: (a) if you switch to the Animal Industry or Laboratory Animal Science option, the two-course sequence is required; and (b) a better business background for Veterinary Medicine is obtained.
- Second Area VI Course:** A number of veterinary colleges require a public speaking course. Thus, consideration should be given to taking Fundamentals of Speaking and Listening (04:192:220), which is offered during Winter/Summer sessions, rather than Scientific and Technical Writing (01:355:302).

### **WHAT'S AN "OR EQUIVALENT"**

"Or equivalent" is often stated in the catalog and refers to a course similar in content or at a higher level that may substitute for a required course. Many courses that are offered infrequently or have ceased to be offered may require an "or equivalent". Illustrations of "or equivalents" in our curriculum are:

- General Microbiology (11:680:390) for General Microbiology (01:447:390)
- Introduction to Microeconomics (01:220:102) for Principles and Applications of Microeconomics (11:373:121)
- Calculus I (01:640:135) for Precalculus College Mathematics (01:640:115)
- Statistics I (01:960:211) or Introductory Statistics for Business (01:960:285) for Basic Statistics for Economics (01:960:201)
- Extended General Physics (01:750:201, 202) or General Physics (01:750:203, 204, 205, 206) for Physics for the Sciences (01:750:193, 194)

Course substitutes/or equivalents may also apply in Area VI, Oral and Written Communication, Experience-Based Education, 9 credits, and elsewhere in our curriculum. **This stresses the need to seek advisory counsel.**

### **PREREQUISITE OVERRIDES**

If you have not completed a required course at Rutgers or had a transfer course declared equivalent and listed on your transcript, obtain a signed prerequisite override form from the instructor and register in person.

### **USE ELECTIVE/Common Courses to Your Advantage: Minor/Double Major**

Each area of specialization in the Animal Industries option and the Laboratory Animal Science option requires that 6 credits of electives be completed. For all options, it is also necessary to complete unspecified electives (4-19 credits) to fulfill the graduation requirement of 128 credits. Courses that are selected to complete these credit requirements should reflect your interests and career goals but need to have the approval of your faculty advisor. These free electives allow students to complete a minor or even double major while majoring in Animal Science at New Brunswick. Another opportunity is to participate in the undergraduate student exchange program with Delaware Valley College and Penn State. These schools offer a variety of courses in equine, livestock, or dairy that would also fulfill these free electives and allow you to further develop an area of specialization.

### **DELAWARE VALLEY COLLEGE/PENN STATE EXCHANGE PROGRAMS**

This program is structured primarily for students in their junior/senior years. Separate formal applications must be made for each exchange. Forms are available from Dr. Wohlt. Acceptance is dependent on academic performance and justification of how the exchange will strengthen/broaden your education and career options. You will formally register for these courses at Rutgers and pay Rutgers tuition and student activity fees. Transportation and room and board would be at your cost and paid to the host institution. Complete course descriptions and prerequisites for exchange courses are available through our home page. Consult with your faculty advisor to determine how participation in these exchange programs can enhance your curriculum and education while completing a degree in Animal Science at Cook College.

#### **DELAWARE VALLEY COLLEGE: Fall 2008**

AS 3123 Animal Husbandry Techniques I (2)  
AS 4029 Poultry Science (3)  
DS 4143 Dairy Husbandry Techniques II (2)  
ES 1101 Stable Management (3)

#### **PENN STATE UNIVERSITY: Fall 2008**

AG 301W Introduction to Agricultural Law (3)  
AGRO 423 Forage Crop Management (3)  
AN SC 211 Introduction to Avian Biology (3)  
AN SC 305 Companion Animal Nutrition Management (3)  
AN SC 306 Swine Production and Management (3)  
AN SC 322 Principles of Animal Breeding (3)  
AN SC 324 Value Determination of Meat Animals (3)  
AN SC 410 Advanced Dairy Herd Management (3)  
AN SC 431W Reproductive Physiology (4)