RSC 700 MAMMALIAN REPRODUCTION. (3)
The course will introduce students to the mammalian reproductive system and its function. The objective is to provide students with knowledge on the anatomy, endocrine regulation and physiology of reproduction. Comparison of reproductive function will be made among species and the scientific research methods used to investigate these systems will be introduced. Prereq: BIO 150 and BIO 152 or consent of the Course Director.

RSC 701 ADVANCED REPRODUCTIVE IMMUNOLOGY. (3)
Immune mechanisms involved during pregnancy will be covered with a focus on the interactions between the placenta and the material immune system. The role of the immune system on defects during pregnancy will be discussed, including the role in pre-term labor, implantation, and preeclampsia. The response of the normal immune system on the developing fetus will be covered. Prereq: Admission into the Ph.D. in Reproductive Sciences program or consent of instructor.

RSC 702 MOLECULAR REPRODUCTION. (3)
The in-depth structure and function of the mammalian reproductive system will be studied as it relates to the understanding of human reproduction at the molecular level. Both male and female reproductive organs and associated hormones and behaviors will be studied. Experts in relevant fields will give lectures and students will be involved in discussions with the lecturers. Prereq: Admission into the Reproductive Sciences Ph.D. program or permission of the course director and/or IBS 601.

RSC 703 BIOLOGY AND THERAPY OF REPRODUCTIVE CANCERS. (3)
The course will introduce students to the fundamentals of biological and molecular events related to disease progression, and to current therapeutic modalities for the treatment of reproductive cancers. The course will include lectures for each topic area. In addition, there will be discussions and student presentations on related topics. Prereq: Admission to the Ph.D. program in Reproductive Sciences, or consent of the instructor. Courses in cell biology, molecular biology and cancer therapy are helpful prerequisites.

#RSC 767 REPRODUCTIVE SCIENCES POST-QUALIFYING RESEARCH. (2)
Research in Reproductive Sciences following successful completion of the qualifying examination. Research initiated in RSC 790 will be expanded to answer a proposed research question or questions. Following acceptable collection of data the student will write a dissertation and defend the dissertation at an oral defense. In addition the student must submit his/her findings to a peer-reviewed scientific publication journal. Prereq: Successful completion of the qualifying examination.

#RSC 790 REPRODUCTIVE SCIENCES PRE-QUALIFYING RESEARCH. (1-5)
Research in Reproduction Sciences prior to the pre-qualifying examination. Students will identify a research problem, develop research skills, apply research methods and write a research proposal. Prereq: Successful completion of years 1 and 2 of the RSC Ph.D. curriculum, including rotations in a minimum of 3 different research laboratories.