Course Description
This course provides an overview of the dynamic field of human hormones and behavior. Basic neuroendocrine mechanisms are presented. The reciprocal role between hormones and behavior is highlighted throughout the course. Emphasis is given to human naturalistic and clinical populations. Examples cover a range of topical interests, including sexual behavior, parenting, aggression, and the stress response. Research methods are highlighted, especially the development of a research question and research design.

Course Objectives: Students will grapple with current theoretical and empirical evidence concerning human hormones and behavior. The value of comparative research, especially experimental findings from non-human rodents and primates, will also be emphasized. Through readings, students will develop critical thinking skills to assess research on human hormones and behavior. Particular attention will be paid to the design of research concerning human hormones and behavior. Through a research paper, students have the opportunity to apply course concepts and examples to a topic of particular interest. An aim of this course is to foster undergraduate and graduate research projects here at UWM focused on some facet of human hormones and behavior.

Course Requirements and Grading

Exams and grading: Two exams are given in the course, a midterm (20%) and a cumulative final (35%). Summary of the weekly journal reading (25%). There will also be an end of the semester presentation (15%).

GENERAL POLICIES:
You should always feel free to ask questions, share ideas, and express your opinions. At the same time, I expect all students to be courteous and respectful at all times. Behavior that may be distracting to other students in the class will not be tolerated. All noise-making electronic devices should be turned off in class. Laptops are acceptable, but only to take notes—NOT to surf the web, check your email, etc. Please refrain from reading the paper, chatting with your neighbors, or coming late or leaving early (unless you notify me ahead of time that this will be necessary). If you miss a class meeting, it is your responsibility to borrow notes from another student.

Cheating, plagiarism, or any other form of academic dishonesty will not be tolerated. No exceptions. The following web page provides more information about your rights and responsibilities as a student: www.uwm.edu/Dept/SecU/SyllabusLinks.pdf. Also, please contact me as soon as possible if you require any special accommodations in order to complete the requirements for this course.
**Course Outline**

**Week 1 (Sept 7):** Introduction and course overview  

**Week 2 (Sept. 12, 14):** Varieties of hormones: releasing hormones, trophic hormones, protein and steroid hormones; Circadian, seasonal and circannual rhythms; Methods of study of hormonal systems: experimental models, use of bodily fluids, receptor study *(Chapters 2, 10)*.


**Week 5 (Oct. 3, 5):** Life history organization of hormone systems; pregnancy, birth and lactation in females; growth, maturation and senescence  
Campbell, BC 2011. Adrenarche and Middle Childhood *Human Nature* in press


Week 9 (Oct 31, Nov 2): Parenting behavior

Week 10 (Nov 7,9): Homeostasis and behavior; energetic factors and behavior

Week 12 (Nov 14,16): Stress response system

Week 13 (Nov. 21, 23): Learning and memory; Hormones and mood (Chapters 12, 13); Bloch, M., Daly, R.C. and Rubinow, D.R. 2003. Endocrine factors in the etiology of postpartum depression. *Comprehensive Psychiatry* 44: 234-246.

Week 14 (Nov 28, 30): Student Presentations

Week 15 (Dec 5, 7): Student Presentations

Week 16 (Dec. 12, 14) Presentation Summary and Course Review

FINAL EXAM Dec. 19\textsuperscript{th} 12:30-2:30