OBSTETRICS AND GYNECOLOGY (OBS&GYN)

OBS&GYN 699 – DIRECTED STUDY
1-5 credits.
Directed study projects as arranged with faculty member.
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2024
Learning Outcomes: 1. Apply concepts learned in coursework to real life situations
Audience: Undergraduate
2. Read and effectively search scientific literature
Audience: Undergraduate
3. Develop critical, analytical, and independent thinking skills
Audience: Undergraduate

OBS&GYN 710 – REPRODUCTIVE ENDOCRINE PHYSIOLOGY
3 credits.
A broad grounding in reproductive endocrine physiology at the graduate level, with an emphasis on human and human reproductive health wherever possible. Encompasses an overview of fundamental concepts in endocrinology, the hypothalamic-pituitary axis, steroidogenesis, early embryonic development, pregnancy and maternal-fetal adaptations, and pathologies associated with endocrine disruption and dysregulation. Provides more focus on pathologic pregnancies because such pregnancies lead to a higher risk of adult onset diseases including hypertension, obesity, and metabolic syndrome. Covers pregnancy and pathologic pregnancy in detail.
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2023
Learning Outcomes: 1. Recall and summarize fundamental concepts in reproductive endocrinology and physiology, with an emphasis on human and human reproductive health.
Audience: Graduate
2. Gain insights into clinical perspectives of pathologies associated with reproductive endocrinology and physiology. Integrate fundamental concepts with clinical perspectives and apply to case studies.
Audience: Graduate
3. Evaluate primary research articles and demonstrate critical reasoning with regards to methods and conclusions.
Audience: Graduate
4. Demonstrate critical thinking with regards to course material through in-class interactive discussion with peers and faculty.
Audience: Graduate
5. Integrate instruction material and personally-researched scientific texts to formulate individual thoughts on topics not directly covered in lecture.
Audience: Graduate
OBS&GYN 711 – ADVANCED REPRODUCTIVE ENDOCRINE PHYSIOLOGY
2 credits.
Advanced learning opportunities in Endocrinology and Reproductive Physiology (ERP) areas, particularly reproduction, with an emphasis on human health whenever possible. Explore scientific questions core to the ERP graduate training program at research level with further in-depth instruction and a focus on cutting-edge knowledge and developments. Topics include pregnancy (ovulation through parturition); embryonic growth and development; lactation biology; and neuroendocrinology. Continuation of OBS&GYN 710. Intended for second- or third-year graduate students.

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2023

Learning Outcomes:
1. Develop deep understanding of a reproduction topic.
   Audience: Graduate
2. Evaluate primary research articles and demonstrate critical reasoning with regard to methods and conclusions.
   Audience: Graduate
3. Demonstrate critical thinking with regard to course material through in-class interactive discussion with peers and faculty.
   Audience: Graduate
4. Integrate instruction material and personally-researched scientific texts to formulate individual thoughts on topics not directly covered in lecture.
   Audience: Graduate

OBS&GYN 712 – CRITICAL THINKING IN REPRODUCTIVE ENDOCRINE PHYSIOLOGY
2 credits.
Provides advanced learning opportunities in Endocrinology and Reproductive Physiology areas, particularly reproduction, emphasizing human health whenever possible. Explores scientific questions core to the ERP graduate training program and teaches how to communicate research findings as presentations. Skills developed include information discovery; organization of papers and identification of argument(s); and creation of documents/reports. Students are the driving force behind achievement of the learning objectives by undertaking learning activities, actively engaging in their peers’ activities, and providing constructive feedback to their peers. Prior completion of OBS&GYN 710 recommended but not required.

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2022

Learning Outcomes:
1. Incorporate knowledge of cutting-edge research in and related to one’s research area to a specific research question.
   Audience: Graduate
2. Effectively communicate scientific information to course participants through learning activities.
   Audience: Graduate
3. Evaluate peer presentations and provide constructive feedback.
   Audience: Graduate
4. Distill research knowledge and activities into a variety of scientific outputs.
   Audience: Graduate
5. Develop and deliver effective scientific conference-style presentations.
   Audience: Graduate

OBS&GYN/POP HLTH 807 – REPRODUCTIVE AND PERINATAL EPIDEMIOLOGY
2 credits.
Provides an overview of the current knowledge and research in reproductive and perinatal epidemiology. Through reading of the primary and secondary literature, examine issues related to topics such as fertility, preconception health, and perinatal outcomes including maternal morbidity and mortality, pregnancy loss, and infant outcomes. Current evidence-based strategies designed to improve reproductive and perinatal outcomes are reviewed. Long-term health implications of pregnancy and infant health are considered.

Requisites: SOC/POP HLTH 797
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
OBS&GYN 909 – OBSTETRICS & GYNECOLOGY INTERNSHIP PREP COURSE
1 credit.

Designed to highlight, review, and allow practice of key concepts in Obstetrics Gynecology. Practice with case simulation, case discussion, didactics, panel discussions, and procedural skills to prepare for success in the first few weeks of an Ob/Gyn residency. Participate in simulations and explore critical interplay between medical care and communication. Discuss common challenges encountered early in residency and throughout an Obstetrics Gynecology career. Taught by a team of faculty, interprofessional staff, residents, fellows, and course directors.

Requisites: MED SC-M 810, 811, 812, and 813
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2024

Learning Outcomes:
1. Diagnose and manage common and critical medical conditions
   Audience: Graduate
2. Practice initial orders for acute medical/surgical situations
   Audience: Graduate
3. Perform duties as first responder to urgent or emergent patient care situations
   Audience: Graduate
4. Accurately interpret and apply laboratory information to clinical scenarios
   Audience: Graduate
5. Demonstrate performing informed consent procedures
   Audience: Graduate
6. Communicate effectively with patients, families and all members of the healthcare team
   Audience: Graduate
7. Describe effective transitions of care and demonstrate in simulated environment
   Audience: Graduate
8. Describe the essential role of each member of the healthcare team and strategies for maximizing teamwork
   Audience: Graduate
9. Demonstrate self-awareness and recognize the importance of adaptability
   Audience: Graduate
10. Identify strategies to address stress inherent in transitioning to internship, during residency, and throughout medical career
    Audience: Graduate

OBS&GYN 910 – INDEPENDENT READING AND RESEARCH IN OB/GYN
2-8 credits.

Independent research under the direct supervision of Obstetric/Gynecology faculty. Each student’s research project is individualized to meet student research goals within context of faculty research needs.

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2024

Learning Outcomes:
1. Formulate a hypothesis or specific objective if study does not involve hypothesis generating research.
   Audience: Graduate
2. Conduct a thorough literature review of the specific research question.
   Audience: Graduate
3. Select and apply statistical methodologies appropriate for the proposed analyses.
   Audience: Graduate
4. Interpret results correctly and in context of previous findings from literature review.
   Audience: Graduate
OBS&GYN 917 – RACE IN AMERICAN OBSTETRICS & GYNECOLOGY
2 credits.

Survey the history of race in American obstetrics and gynecology. Gain understanding of how race and theories of racial difference informed the development of the field and justified the treatment of Black, indigenous and immigrant patients. Understand the vital contributions of Black enslaved women, other women of color, and Irish immigrants to obstetrics and gynecology. Make connections between racialized historical practices and contemporary norms in reproductive healthcare.

Requisites: MED SC-M 810, 811, 812, and 813
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2023
Learning Outcomes:
1. Demonstrate understanding of how race informed the evolution of obstetrics and gynecology as a discipline
   Audience: Graduate
2. Describe the symbiotic relationship between slavery and obstetrics and gynecology and the contributions of enslaved women to key advances in the discipline
   Audience: Graduate
3. Discuss the contradictions between physicians’ beliefs in racial inferiority of Black and Irish women and the use of their bodies as medical exemplars
   Audience: Graduate
4. Describe how structural racism impacted disparities in reproductive health during the antebellum area and late 19th century
   Audience: Graduate
5. Demonstrate understanding of how historical stereotyping and treatment of Black women has led to institutionalized stereotyping in present-day obstetrics and gynecology
   Audience: Graduate
6. Describe the progression of racial/ethnic disparities in reproductive health from the antebellum era to the present day
   Audience: Graduate

OBS&GYN 919 – INDIVIDUALIZED OBSTETRICS & GYNECOLOGY ELECTIVE
2-4 credits.

In-depth exposure to ambulatory gynecology, operative gynecology, normal and high-risk obstetrics and subspecialty clinics, working under the direct supervision of Obstetric/Gynecology faculty, residents, fellows, certified midwives, and advanced practice practitioners. Individualized to meet each location’s capacity and student preference.

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2024
Learning Outcomes:
1. Perform a hypothesis driven history and complete a targeted exam
   Audience: Graduate
2. Develop and present a weighted differential diagnosis for medical and surgical conditions
   Audience: Graduate
3. Using clinical evidence, adapt and justify the working diagnosis
   Audience: Graduate
4. Present a diagnostic plan including laboratory and imaging modalities
   Audience: Graduate
5. Correctly interpret imaging and laboratory findings and communicate results to patients and team members
   Audience: Graduate
6. Develop and implement effective patient management plans
   Audience: Graduate
7. Complete written documentation in a comprehensive, concise, accurate and timely manner
   Audience: Graduate
8. Review, interpret, and present current literature to support patient care
   Audience: Graduate
9. Communicate effectively with patients, families, physicians and non-physician team members
   Audience: Graduate
10. Communicate and collaborate with consultants and/or primary team and other providers to coordinate care
    Audience: Graduate
11. Engage patients in shared decision-making regarding tests, orders, and procedures
    Audience: Graduate
12. Avoid medical jargon when communicating with patients and families
    Audience: Graduate
13. Recognize limitations and seek assistance as appropriate
    Audience: Graduate
14. Understand the process of obtaining informed consent prior to surgical intervention
    Audience: Graduate
15. Recognize perioperative conditions that determine patient level of care and interpret physiologic changes that require changing that level of care
    Audience: Graduate
OBS&GYN 921 – GYNECOLOGIC ONCOLOGY

2-4 credits.

In-depth exposure to outpatient care of the patient with gynecologic cancer. Occasional opportunities to provide inpatient care to patients students have examined or consulted with in clinic. Work under the direct supervision of the gynecologic oncology faculty, fellows, residents, and APPs. Function at the intern level and play an active role in the care of gynecologic oncology patients.

**Requisites:** Graduate/professional standing  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Spring 2024  

**Learning Outcomes:**  
1. Perform a hypothesis driven history and complete a targeted exam.  
   Audience: Graduate
2. Develop and present a weighted differential diagnosis for medical and surgical conditions  
   Audience: Graduate
3. Using clinical evidence, adapt and justify the working diagnosis.  
   Audience: Graduate
4. Present a diagnostic plan including laboratory and imaging modalities.  
   Audience: Graduate
5. Correctly interpret imaging and laboratory findings and communicate results to patients and team members.  
   Audience: Graduate
6. Develop and implement effective patient management plans.  
   Audience: Graduate
7. Complete written documentation in a comprehensive, concise, accurate and timely manner.  
   Audience: Graduate
8. Review, interpret, and present current literature to support patient care.  
   Audience: Graduate
9. Communicate effectively with patients, families, physicians and non-physician team members.  
   Audience: Graduate
10. Communicate and collaborate with consultants and/or primary team and other providers to coordinate care.  
    Audience: Graduate
11. Engage patients in shared decision-making regarding tests, orders, and procedures.  
    Audience: Graduate
12. Avoid medical jargon when communicating with patients and families.  
    Audience: Graduate
13. Recognize limitations and seek assistance as appropriate.  
    Audience: Graduate
14. Understand the process of obtaining informed consent prior to surgical intervention.  
    Audience: Graduate
15. Recognize perioperative conditions that determine patient level of care and interpret physiologic changes that require changing that level of care.  
    Audience: Graduate
16. Perform minor procedures with supervision.  
    Audience: Graduate
17. Demonstrate the ability to manage time and understand, access, and intervention.  
    Audience: Graduate

OBS&GYN 934 – OBSTETRIC HOSPITALIST

4 credits.

In-depth exposure to inpatient care of patients on Labor and Delivery. Work under the direct supervision of the Obstetrics Hospitalist whose primary role is the general medical care of hospitalized patients. Help manage laboring patients, see patients in labor and delivery, triage, and assist with cesarean sections. Round on all patients for whom you are involved in care once patients are post-partum. Function as the residents do at night and assist with cross coverage of inpatient gynecology patients as well as see patients who arrive in the emergency department with obstetric or gynecologic concerns. You may assist in the operating room if the patients who present to the emergency room require immediate surgery.

**Requisites:** Graduate/professional standing  
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2021  

**Learning Outcomes:**  
1. Perform a hypothesis driven history and complete a targeted exam.  
   Audience: Graduate
2. Develop and present a weighted differential diagnosis for medical and surgical conditions  
   Audience: Graduate
3. Using clinical evidence, adapt and justify the working diagnosis.  
   Audience: Graduate
4. Present a diagnostic plan including laboratory and imaging modalities.  
   Audience: Graduate
5. Correctly interpret imaging and laboratory findings and communicate results to patients and team members.  
   Audience: Graduate
6. Develop and implement effective patient management plans.  
   Audience: Graduate
7. Complete written documentation in a comprehensive, concise, accurate and timely manner.  
   Audience: Graduate
8. Review, interpret, and present current literature to support patient care.  
   Audience: Graduate
9. Communicate effectively with patients, families, physicians and non-physician team members.  
   Audience: Graduate
10. Communicate and collaborate with consultants and/or primary team and other providers to coordinate care.  
    Audience: Graduate
11. Engage patients in shared decision-making regarding tests, orders, and procedures.  
    Audience: Graduate
12. Avoid medical jargon when communicating with patients and families.  
    Audience: Graduate
13. Recognize limitations and seek assistance as appropriate.  
    Audience: Graduate
14. Understand the process of obtaining informed consent prior to surgical intervention.  
    Audience: Graduate
OBS&GYN 935 – TEACHING IN THE CLINICAL SETTING
2 credits.

As Phase 3 students, apply teaching theories to the pursuit of improving the clinical learning environment for Phase 2 students. Unique opportunity for Phase 3 medical students to gain experience with clinical teaching in a capacity similar to how they will function as an intern without the demands and responsibilities of residency, with a focus on establishing good teaching practices. Spend time in the clinical setting advising and mentoring Phase 2 students. No direct participation in patient care. Prepare and deliver short teaching sessions for Phase 2 students from a standard curriculum of learning topics to help Phase 2 students achieve success on Labor Delivery. Develop innovative ways to guide Phase 2 students to effectively utilize clinical resources, navigate the basics of patient assessment, and engage with the patient care team.

Requisites: MED SC-M 810, 811, 812, and 813
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2024

Learning Outcomes:
1. Explain the basic tenets of adult learning theory and how this applies to teaching medical students.
   Audience: Graduate

2. Describe the difference between formative and summative feedback and be able to provide this feedback to Phase 2 students for both their written clinical documentation and their oral clinical presentations.
   Audience: Graduate

3. Compare/contrast the different types of instructional methods available and be able to apply these in the clinical setting.
   Audience: Graduate

4. Demonstrate how to give an effective presentation on at least 1 topic per week, chosen from a list of central concepts about labor and delivery.
   Audience: Graduate

5. Utilize strategies to create a positive learning environment on labor and delivery.
   Audience: Graduate

OBS&GYN 938 – OBSTETRICS & GYNECOLOGY INPATIENT ACTING INTERNSHIP
4 credits.

Provides an in-depth exposure to inpatient and operative management of complicated obstetric and gynecologic patients. Work under the direct supervision of a senior resident, fellows and the obstetrician-gynecology faculty. Provides an opportunity to function at the intern level and play an active role in inpatient management of obstetric and gynecologic patients.

Requisites: MED SC-M 810, 811, 812, and 813
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2024

Learning Outcomes:
1. Explain the physiology of the female pelvic anatomy including arterial blood supply, venous and lymphatic drainage, neurologic innervation and anatomic relationship between the reproductive organs and the non-gynecologic abdominal viscera.
   Audience: Graduate

2. Develop an evidenced-based understanding of the pathophysiology and appropriate management options for common gynecological disorders.
   Audience: Graduate

3. Explain the indications for and limitations of commonly used gynecological screening tests.
   Audience: Graduate

4. Demonstrate basic knowledge regarding common post-operative complications (e.g. wound infection, urinary tract infection, thromboembolism, bleeding) and the appropriate management of each.
   Audience: Graduate

5. Demonstrates an understanding of common non-reproductive medical disorders.
   Audience: Graduate

6. Identify and explain common gynecological surgical procedures in terms of patient selection and the risks and benefits for each procedure.
   Audience: Graduate

7. Describe indications and list the appropriate preoperative evaluations including lab tests, radiographic imaging, and ECG.
   Audience: Graduate

8. Identify and describe use of common instruments used in gynecologic surgery.
   Audience: Graduate

9. Discuss common intraoperative complications associated with common gynecologic procedures and the appropriate management of each.
   Audience: Graduate

10. Discuss the surgical anatomy, common procedural indications, comorbidities, and prophylactic strategies to reduce post-operative complications with common gynecological surgeries.
    Audience: Graduate
OBS&GYN/AN SCI/ZOOLOGY 954 – SEMINAR IN ENDOCRINOLOGY-REPRODUCTIVE PHYSIOLOGY
0-1 credits.

Promotes scientific and professional development. Presenters develop and deliver research presentations to a scientific audience, field questions, and receive critiques about their presentation style and scientific approach. Additional presentations include professional development, career advancement opportunities, and topics of interest to the endocrinology and reproduction community at large.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2024

Learning Outcomes:
1. Demonstrate knowledge of cutting-edge research in and related to one’s research area through the development and delivery of research presentations
   Audience: Graduate

2. Communicate complex ideas in research presentations and questions in a clear and understandable manner
   Audience: Graduate

3. Evaluate presentations and providing effective feedback
   Audience: Graduate

OBS&GYN 955 – RESPONSIBLE CONDUCT OF RESEARCH FOR BIOMEDICAL GRADUATE STUDENTS
2 credits.

Meets the NIH Institutional Training Grant requirements of repeat/further instruction in the nine recommended areas (1) conflict of interest - personal, professional, and financial; (2) policies regarding human subjects, live vertebrate animal subjects in research, and safe laboratory practices; (3) mentor/mentee responsibilities and relationships; (4) collaborative research including collaborations with industry; (5) peer review; (6) data acquisition and laboratory tools, and management, sharing and ownership; (7) research misconduct and policies for handling misconduct; (8) responsible authorship and publication; (9) the scientist as a responsible member of society, contemporary ethical issues in biomedical research, and the environmental and societal impacts of scientific research.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2023

Learning Outcomes:
1. Be knowledgeable of the ethics and philosophies that shape our understandings of the responsible conduct of biomedical research
   Audience: Graduate

2. Recognize and apply principles of ethical and professional conduct
   Audience: Graduate

3. Be aware of mechanisms and processes available to UW-Madison graduate students to help ensure the practice of the responsible conduct of biomedical research
   Audience: Graduate
OBS&GYN 956 – ADVANCED RESPONSIBLE CONDUCT OF RESEARCH FOR BIOMEDICAL STUDENTS
1 credit.

Meets the NIH Institutional Training Grant requirements of repeat/further instruction in the nine recommended areas: (1) conflict of interest - personal, professional, and financial; (2) policies regarding human subjects, live vertebrate animal subjects in research, and safe laboratory practices; (3) mentor/mentee responsibilities and relationships; (4) collaborative research including collaborations with industry; (5) peer review; (6) data acquisition and laboratory tools, and management, sharing and ownership; (7) research misconduct and policies for handling misconduct; (8) responsible authorship and publication; (9) the scientist as a responsible member of society, contemporary ethical issues in biomedical research, and the environmental and societal impacts of scientific research. Provides advanced consideration of these topics and illustrates how to implement these responsible conduct and ethical considerations into actual grant- and career-related documents.

Requisites: OBS&GYN 955, PHARMACY 800, NURSING 802, SURG SCI 812, or MICROBIO 901

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2024

Learning Outcomes: 1. Be knowledgeable of the ethics and philosophies that shape our understandings of the responsible conduct of biomedical research
Audience: Graduate

2. Understand and utilize some best practices in the responsible conduct of biomedical research
Audience: Graduate

3. Be aware of mechanisms and processes available to UW-Madison graduate students to help ensure the practice of the responsible conduct of biomedical research
Audience: Graduate

4. Obtain a more comprehensive understanding of the responsibilities, requirements, monitoring, and reassurances involved in successful contemporary biomedical scientific research and how they are used in planning for or applying for grant support, as well as in reporting the progress made in grant-funded studies
Audience: Graduate

OBS&GYN 990 – RESEARCH
1-10 credits.

Research supervised by individual faculty members.

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2024

Learning Outcomes: 1. Exhibit a broad understanding of endocrinology and reproduction
Audience: Graduate

2. Conduct thesis-related research projects using a variety of approaches under the guidance of the primary faculty advisor
Audience: Graduate

3. Think critically to address research challenges
Audience: Graduate

4. Exhibit and foster professional and ethical conduct in their research
Audience: Graduate