Course Number: PHA 519
Course Title: Women's Health: Obstetrics and Gynecology
Number of Credits: 2 credit hours
Prerequisites: Successful Completion of Year I Summer Courses
Days/Times:  
Lecture: Wednesday 4:00-5:50 (CGS 118)  
Lab: Thursday 4:00-5:50 (CGS 105)
Faculty:  
Allison McNeil, NCM  
Email: amcneil@carrollu.edu  
Office Hours: by appointment
Dr. Monika Baldridge  
Email: mabldrid@carrollu.edu  
Office: CH204  
Phone: 262-524-7627  
Office Hours: just stop by

Course Description:
This course presents the fundamentals of gynecology, pathophysiology, screening and diagnosis of gynecological cancers; management of women’s health problems, antenatal and postnatal care, recognition and management of complications of pregnancy, and basic management of normal/abnormal labor and delivery, and gynecological problems encountered in primary care.

Course Content:
This course is designed to provide the learner with a strong foundational knowledge in Women’s Health. Several teaching techniques will be employed in this course with active learning emphasized and expected. The student will actively engage in applying information within classroom, laboratory, and simulation laboratory settings. Lecture/PowerPoint, laboratory, discussion, case studies, and independent learning activities will be employed throughout the course. The specific learning objectives for this course are to be used as a guide for reading, studying, and preparing for the course examinations. Students are expected to be independent, self-directed learners.
Student Expectations:

- demonstrates a positive attitude toward learning
- is on time for all scheduled classes, including timely return from breaks
- completes readings and assignments prior to class
- asks relevant and understandable questions
- takes full responsibility for learning and self-directed learning activities
- shows respect for self, other students, and faculty
- refrains from revealing negative feelings through tone of voice or body language
- refrains from disruptive activities during class including eating, talking, getting up and down, use of cell phone, etc.
- relies on personal resources before approaching others for help
- demonstrates cooperation with and mutual respect for peers
- responds to faculty, staff and peers readily and appropriately

Instructor Expectations:

- demonstrates a positive attitude towards the facilitation of learning
- is on time for all scheduled classes
- should the need arise, reschedules class time with appropriate and timely notification to students, faculty, and staff
- provides appropriate course materials for class preparation prior to class
- is available for office hours or appointments to assist with questions; responds to faculty, staff, and students readily and appropriately
- listens attentively and initiates communication which is appropriate and timely
- identifies limitations in knowledge and provides appropriate resources for student learning
- provides timely and constructive feedback for assignments and assessments
- shows respect for self, students, and other faculty
- refrains from revealing negative feelings through tone of voice or body language

Required Text:

Additional Resources:


Grading:

Grades will be assigned at the end of the semester according to the following scale:

<table>
<thead>
<tr>
<th>Percentage</th>
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<tbody>
<tr>
<td>93 – 100</td>
<td>A</td>
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<tr>
<td>90 – 92.99</td>
<td>A/B</td>
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<td>83 – 89.99</td>
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Attendance and Professionalism:

Attendance at all class periods, laboratories, and practical experiences are mandatory unless otherwise indicated. Poor attendance (unexcused absences, tardiness, and unauthorized early departures), lack of preparation, and unprofessional behavior may result in a lower or failing grade and/or be reported to the program progression committee. If you will be absent, tardy, or need to be excused early you must notify the course director via e-mail or phone prior to the scheduled meeting time. Tardiness and unauthorized early departures will be considered unexcused absences unless prior notification is submitted. Unexcused absences of more than 10% of class time may result in a failing grade. Absences are excused only at the discretion of the course director and/or the PA Program Director. Students may be required to make up missed laboratory time (excused or unexcused) at the discretion of the course director.

Statement on Academic Integrity:

The Carroll University Academic Integrity Policy is located in the Carroll University Student Handbook. Students are encouraged to familiarize themselves with it. If a student violates this policy in any way, the instructor(s) reserve the right to impose a sanction of failure on the assignment/assessment or even failure in the course. If you have questions about appropriate citations, please ask your instructor. Some examples of violations include:

1. Plagiarism
2. Failure to return or removal of an exam or quiz
3. Submitting work completed by another individual
4. Any form of cheating during a quiz, lecture exam, or lab practical
5. Discussion of grades or sharing of answers to assessment materials

Accommodations for Disabilities:

Any requests for accommodation for physical or cognitive disability must be made through the Walter Young Disability Services Coordinator at Carroll University. Appropriate accommodations will be evaluated based on the program technical standards once notification has been received from the Walter Young coordinator. If an individual student has special needs or concerns about course requirements related to religious beliefs, cultural issues, or other issues, the student must contact the Program Director with a request for accommodation.
**Remediation:**

Students who receive a D or an F in this or any physician assistant year 1 course will be placed on academic probation.

During the course, a student who scores more than 2 SD below the mean on an exam/assessment may be required to complete additional work. The student will be contacted by the course instructor and asked to meet to discuss the remediation requirements for that particular assessment. Remediation requirements will be determined by the course instructor. When an instructor requires remediation of a student it does not affect the exam/assessment grade, nor does it improve the semester or course grade. Remediation is required to ensure that course objectives are met. It is expected that assigned work for the purpose of remediation be completed in a thorough, professional and timely manner. Satisfactory completion of remediated work will be determined by the course instructor. Students may be required to complete additional work if the original remediation is deemed unsatisfactory.

Students should make every effort to resolve remediation issues with the course director. If a student is unable to resolve such issues s/he may request a review by the Didactic Subcommittee. All decisions made by the subcommittee are final. If remediation is not successfully completed by the end of the course/semester a grade of “Incomplete” will be given until the work is successfully completed. Please note that an incomplete course grade may delay program progression and/or graduation. Information regarding incomplete grades is available in the Graduate Catalog.

**Assessments:**

<table>
<thead>
<tr>
<th>Assessments</th>
<th>Points</th>
<th>Date</th>
<th>Linked Objectives</th>
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<tr>
<td>EXAM 1</td>
<td>100</td>
<td>Wednesday, Oct. 18</td>
<td>A,B,C,D,E,H</td>
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<tr>
<td>EXAM 2</td>
<td>100</td>
<td>Wednesday, Nov. 8</td>
<td>G,I,J,K,O,P,Q</td>
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<tr>
<td>PATIENT EXAMS (GTA)</td>
<td>Pass/Fail</td>
<td>Saturday, Sept. 23</td>
<td>A,E,I,J,K,L</td>
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*Linkages between these course student learning goals and the Master of Physician Assistant Program goals are in alignment.

**Selected Readings:**

Readings should be reviewed in preparation for discussion in class. Readings not in the required texts may be found on reserve, online, or in other pertinent journals. Additional readings may be assigned as appropriate. In addition, review of applicable material from other classes such as Clinical Medicine, Clinical Decision Making, Anatomy and Physiology, History and Physical Examination, Professional Practice is expected.

**Examinations:**

There will be 3 lecture exams during the semester. Exams are multiple choice including case-vignette multiple choice questions. Exams will cover material presented in lecture, lab, and discussion. Although not strictly cumulative in nature, you may be required to draw on previous learning experiences with each exam. Challenges to examination questions will be accepted for 1 week after the return of scores. Challenges must be submitted in writing via email with two
written sources, at least one from recommended course readings. No books, papers, notebooks, cellphones, smartphones, I-pods, I-pads, blackberry, etc. or backpacks/bookbags will be allowed on/near your desk during an examination. Recommend keeping personal belongings in the back of the room or in lockers. Hats are prohibited during an exam. Cellphones, smartphones, I-pods, I-pads, blackberry, etc must be turned off during an examination.

**Course Goals:**

*Upon successful completion of this course, students should be able to:*

1. Develop a knowledge base regarding problems commonly encountered in gynecologic and obstetric primary care
2. Formulate and apply strategies for the assessment, diagnosis, and treatment of patients in the primary care setting
3. Demonstrate the application of critical thinking and problem solving skills to explain clinical signs and symptoms
4. Recognize professional limitation and identify situations requiring consultation and/or referral
5. Effectively communicate information related to women’s health to instructors and peers verbally

**Student Learning Objectives:**

**SECTION I—GYNECOLOGY**

**A. THE WOMEN'S HEALTH EXAM**

1. Outline the components of a woman’s health history that have an effect on GYN care
2. Define and apply terminology used in GYN history taking and documentation
3. Discuss the importance of social history as an indicator for STI and infection screening
4. Demonstrate the components of the well woman exam and identify common instruments used
5. Discuss diagnostic office procedures commonly performed during a GYN office visit

**Ethics in Obstetrics and Gynecology**

1. Outline the general ethical practice of medicine and be able to relate it to relevant women’s health medical practice (non-maleficence, beneficence, autonomy, justice)
2. Discuss instances where conflicting responsibilities make confidentiality a difficult issue
3. Summarize the special circumstances of the maternal-fetal relationship and problems associated with conflicts that arise in management of a pregnancy
4. Recognize the importance of collegial relationships with other health professionals in the management of female patients
5. Understand the liability issues that affect obstetrical practice in the U.S.
B. REPRODUCTIVE ANATOMY/EMBRYOLOGY/GENETICS

**Anatomy**
1. Illustrate and summarize the female reproductive anatomy
2. Compare and contrast the four types of pelves
3. Describe basic pelvimetry
4. Illustrate the types of uterine positions and their clinical significance

**Embryology**
1. Summarize internal and external embryogenesis including determination and development of gonadal sex, reproductive tracts, and genetalia
2. Apply an understanding of embryologic development to recognition of congenital anomalies of the reproductive system

**Genetics**
1. Understand basic concepts in genetics and apply to patterns of inheritance
2. Compare and contrast genetic abnormalities based on chromosome number and structure
3. Compile the risk factors for genetic disorders in both gynecology and obstetrics
4. Outline the basic principles of prenatal testing as well as cancer screening
5. Apply the principles of prenatal testing to the diagnosis of basic fetal anomalies
6. Understand which patients should be offered genetic testing and select the appropriate procedure
7. Review the risks and appropriate screening tests for breast and gynecologic cancers

C. REPRODUCTIVE PHYSIOLOGY

1. Summarize the function and site of production of the following hormones and how they interact throughout the menstrual cycle: FSH; LH; TSH; prolactin; GH; estrogen, and progesterone
2. Summarize the interactions of the hypothalamus, pituitary gland, ovaries, endometrium, and placenta on the menstrual cycle and relate to how abnormalities of these organs affect normal cycling
3. Review folliculogenesis including the stages of cell progression from oogonia into a mature ovum and align stages with ovulation
4. Classify and outline the phases the ovaries and endometrium go through during the normal menstrual cycle and the hormonal changes that occur during each phase
5. Outline the histologic changes of the respective organs during the different phases of the menstrual cycle
6. Summarize the events that lead up to and the physiologic changes that are associated with menopause. Apply how this relates to the ovarian and menstrual cycles

D. ADOLESCENT GYNECOLOGY

1. Outline anatomical (Tanner stage) and psychological changes that occur during the adolescent years
2. Identify, diagnose, and treat common disorders encountered in adolescent gynecology
3. Review confidentiality and legal aspects of adolescent care
4. Consider appropriate ways to approach adolescents and parents about health care issues
5. Survey important areas of anticipatory guidance for female teens
E. MENSTRUAL DISORDERS

Amenorrhea
1. Identify and define types of amenorrhea along with their etiologies
2. Determine when a workup for amenorrhea is indicated
3. Describe the steps involved in the workup for amenorrhea
4. Summarize treatment options for amenorrhea

Abnormal Uterine Bleeding
1. Define patterns of abnormal uterine bleeding along with common etiologies
2. Review steps involved in the evaluation of abnormal uterine bleeding
3. Discuss the relationship of the ovulatory cycle to various forms of abnormal uterine bleeding
4. Discuss laboratory studies, the role of endometrial sampling, and management of abnormal uterine bleeding according to age of patient
5. Relate the pathophysiology to the common causes of dysfunctional uterine bleeding (DUB)
6. Identify disorders that must be ruled out in evaluating DUB
7. Discuss laboratory studies needed for evaluation
8. Summarize the management of DUB according to etiology and patient age


Dysmenorrhea and PMS
1. Compare and contrast primary and secondary dysmenorrhea and common causes of each
2. Describe the role of prostaglandins in the etiology of dysmenorrhea and how this relates to treatment options
3. Outline treatment options for dysmenorrhea
4. Summarize the common symptoms and clinical findings associated with the diagnosis of PMS
5. Review the etiology of the symptom complex associated with PMS and PMDD
6. Compile treatment options of PMS/PMDD

F. CONTRACEPTION

1. Compare and contrast the mechanisms of action, efficacy, advantages, and disadvantages of the various forms of contraception (e.g., barrier, hormonal, or surgical)
2. Justify indications for recommending various forms of contraception to selected groups of individuals (e.g., nulliparous vs. multiparous, monogamous vs. polygamous)
3. Determine appropriate patient education regarding contraceptive use
4. Summarize the contraindications for each method of contraception
5. Outline the common complications of each form of contraception
6. Discuss advantages and disadvantages of various combinations of estrogen/progesterone found in oral contraception and how the menstrual history can guide selection of initial treatment
7. Summarize common problems encountered with oral contraception and how therapy can be modified to address these difficulties
8. Understand the various methods of permanent sterilization by type and mechanism of action
9. Compare and contrast the various efficacies, risks and benefits, indications and contraindications for each method of sterilization
10. Recognize the risk indicators for regret about decision for sterilization

G. HYPERANDROGENIC DISORDERS AND POLYCYSTIC OVARIAN SYNDROME (PCOS)

1. Outline steroid hormone synthesis and metabolism and understand the common/overlapping pathways
2. Compare and contrast hirsutism and virilism
3. Outline the differential diagnosis of hyperandrogenism
4. Understand PCOS and the associated clinical syndrome
5. Identify signs/symptoms and physical findings typical of PCOS
6. Outline the diagnostic evaluation, including laboratory evaluation of PCOS
7. Summarize medical therapy options for PCOS, as well as, overall management of the syndrome, including lifestyle modification
8. Understand the evidence-based support of the use of metformin in treating PCOS

H. ENDOMETRIOSIS AND CHRONIC PELVIC PAIN

1. Discuss the incidence, pathogenesis and pathology of endometriosis
2. Outline the presenting signs and symptoms along with clinical findings associated with diagnosis of endometriosis
3. Summarize diagnostic strategies and appropriate use of various tests and imaging methods
4. Compare and contrast treatment options along with the physiology of medications used and side effects
5. Discuss the incidence, pathology, and treatment of adenomyosis

I. INFECTIOUS DISEASES

Common Vulvar and Vaginal Disorders
1. Discuss physiological mechanisms that maintain the normal vaginal flora and the characteristics of the normal vaginal environment
2. Summarize factors that can alter the normal vaginal characteristics and predispose a woman to vaginal infections
3. Outline the evaluation for the major causes of vulvar and vaginal symptoms
4. Review commonly found vulvar disorders, symptoms, characteristics, diagnostics, and treatment options
5. Relate the role of sexual activity to the etiology of commonly found vulvar and vaginal disorders

Sexually-Transmitted Diseases (STDs)
1. Identify at-risk populations for the various forms of STDs and summarize the epidemiology
2. Summarize the clinical presentation of the various forms of STDs
3. Justify the rationale for screening for STDs
4. Identify etiological agents and treatments for common STDs
5. Outline the long-term complications of STDs
6. Promote awareness for sexually transmitted diseases
7. Review the recommendations for STD prevention in the USPSTF

**Pelvic Inflammatory Disease (PID)**
1. Outline the clinical presentation of PID
2. Summarize long-term complications of PID and treatment guidelines according to the CDC


**J. PAP SMEARS, CERVICAL CANCER AND HPV**

**PAP Smears and Cervical Cancer**
1. Understand the guidelines used for determining the frequency of obtaining PAP smears and describe the sensitivity and specificity of the test
2. Demonstrate the proper method of obtaining an adequate specimen
3. Describe the method used for classifying PAP smear results (Bethesda method)
4. Discuss proper methods for evaluating the abnormal PAP smear
5. Evaluate the indications for colposcopy
6. Define the terms koilocytosis, acanthosis, and hyperkeratosis
7. Understand the risk factors for cervical cancer
8. Summarize the histological classification – including proper staging - and the prognosis of various forms of cervical cancer
9. Survey the treatment recommendations for cervical cancer

ICSI guide for follow-up of abnormal pap smears: http://www.icsi.org/knowledge/

**Human Papillomavirus Infections**
1. Review the epidemiology of HPV in the U.S
2. Evaluate the significance of the various types of HPV
3. Summarize the pathophysiology of HPV infection
4. Identify typical locations of HPV infection and the various appearances of HPV-induced lesions
5. Understand the role of the PAP smear, colposcopy and DNA typing in the diagnosis of HPV infection, and how these methods apply to clinical practice
6. Outline the proper methods for evaluation and monitoring of women at risk
7. Compare and contrast the advantages and disadvantages of the various methods of treatment and the controversies surrounding treatment
8. Apply the role of HPV in subsequent gynecological cancer
9. Evaluate the use of the HPV vaccine

Additional Resources: Patient information handout from CDC/Amer Social health Association: http://www.ashastd.org/
K. BENIGN DISORDERS OF THE FEMALE REPRODUCTIVE ORGANS  
(Vulva/Vagina, Uterus, Ovaries and Fallopian Tubes)

1. Review benign conditions of the vulva and vagina  
2. Outline the differential diagnosis and evaluation of a pelvic mass  
3. Summarize the characteristics/pathogenesis, symptoms, diagnosis, and treatment of benign diseases of the uterus, including leiomyomas, hyperplasia, polyps  
4. Summarize the characteristics/pathogenesis, symptoms, diagnosis, and treatment of benign diseases of the ovaries, including ovarian cysts and benign neoplasms  
5. Identify benign conditions of the fallopian tubes  
6. Review the etiology of cervicitis and apply to its evaluation and treatment  
7. Understand cystic abnormalities, cervical polyps, and associated clinical findings

L. URINARY DYSFUNCTION

1. Relate the aspects of the female anatomy that affect the incidence of urinary problems among women  
2. Summarize the effect of dysfunction of the urinary sphincter muscles and muscles of the bladder wall on continence  
3. Describe and identify the types of pelvic relaxation that occur  
4. Discuss the physiology and common therapies for overflow, stress and urge incontinence.  
5. Relate effects of childbirth on the urinary system, including brief consideration of the occurrence of cystocele, uterine prolapse and rectocele  
6. Select the appropriate management option for a particular patient, given efficacies, cost, risk/benefit

M. INFERTILITY

1. Define infertility and discuss the epidemiology  
2. Identify anatomic factors associated with decreased fertility  
3. Compare and contrast common male- and female-related causes of infertility  
4. Outline components of an evaluation for infertility  
5. Summarize treatment options for various types of infertility  
6. Determine appropriate initial evaluation and management and appropriately identify when referral is appropriate  
7. Discuss treatment of infertility when no cause is identified and evaluate the success of treatment in this situation

Additional Resource:  http://www.asrm.org/ (Ass. of Reproductive Medicine website—good patient handouts)

N. SEXUAL ASSAULT

1. Discuss the impact and prevalence of sexual assault  
2. Define what SANE stands for and outline the components of a SANE examination  
3. Summarize the reporting options for an adult victim of a sexual assault  
4. Discuss the importance of evidence collection and documentation  
5. Discuss emotional and physical considerations in the evaluation and treatment of the sexual assault victim
6. Justify why an absence of injuries does not prove consent
7. Identify activities which may have compromised or destroyed evidence
8. Understand the ‘timeline’ in which a medical-forensic exam can be completed
9. Understand Drug Facilitated Sexual Assaults and relate to what drugs are commonly used and resulting counseling issues

O. GYNECOLOGIC ONCOLOGY

1. Understand the general principles of cancer therapy including surgical, chemotherapeutic, radiation and hormonal approaches to therapy (alone or in combination)
2. Relate considerations regarding incidence and approach to vulvar and vaginal cancers
3. Describe the approach to the patient with postmenopausal bleeding
4. Identify the risk factors, symptoms/physical findings and characteristics of endometrial carcinoma
5. Outline the methods used in diagnosis of endometrial cancer and staging of the disease, as well as typical disease course, treatment and overall diagnosis
6. Identify epidemiologic and demographic factors associated with ovarian cancer
7. Summarize the symptoms/physical findings, diagnostic methods, staging and histologic classification of ovarian carcinoma
8. Identify general treatment protocol and prognosis associated with ovarian cancer
9. Understand the rare occurrence of fallopian tube carcinoma, yet consider clinical features and general treatment of the disease

P. BREAST DISORDERS

Benign Disorders of the Breast
1. Summarize the indications for and timing of breast self-examination, physical examination of the breast, and mammography
2. Illustrate how to teach breast self-examination
3. Describe the diagnostic approach to a woman with a breast mass, nipple discharge, or breast pain
4. Explain the history/physical findings associated with intraductal papilloma, fibrocystic changes of the breast, fibroadenoma and mastitis
5. Review approaches to treatment of the above of these breast disorders

Breast Cancer
1. Review the epidemiology/demographics of breast cancer, including risk factors for developing breast cancer
2. Identify signs/symptoms of breast cancer and the role of the H&P in diagnosing breast cancer
3. Summarize the guidelines for mammography screening and identify additional methods of evaluation of breast masses
4. Understand the general classification and staging for breast cancer
5. Outline general guidelines for selection of treatments for management of breast cancer

Q. BREAST FEEDING

1. Compare and contrast the benefits of breast feeding for mom and baby
2. Summarize the contraindications of breast feeding
3. Understand the societal controversies regarding breast feeding
4. Evaluate the barriers to successful breast feeding
5. Survey the resources available and methods to improve the success of breast feeding
6. Identify the agencies committed to the promotion and support of lactation

R. MENOPAUSE and TREATMENT

1. Compare and contrast surgical and natural menopause
2. Outline the symptoms and signs associated with the perimenopausal period
3. Review health risks that increase after menopause (CV disease, osteoporosis, cancer, vulvovaginitis, atrophic vaginitis)
4. Review appropriate treatments for perimenopausal symptoms
5. Summarize appropriate preventive treatments for post-menopausal health risks
6. Discuss risk factors for osteoporotic fracture in postmenopausal women
7. Compare and contrast advantages and disadvantages of the following hormonal replacement regimens: continuous versus cyclic; estrogen versus estrogen + progesterone
8. Review recent research regarding hormone replacement therapy and contraindications to HRT
9. Evaluate homeopathic alternatives to HRT


S. FEMALE SEXUAL DYSFUNCTION

1. Outline the neurophysiology of the female sexual response
2. Identify common forms of female sexual dysfunction and be able to differentiate between the different categories
3. Discuss screening for sexual dysfunction during the well woman exam
4. Identify symptoms/signs, physical findings and diagnostic studies that can be used to diagnose common forms of sexual dysfunction
5. Survey the etiologies and treatments for common forms of sexual dysfunction
6. Summarize the changes in sexual activity with age and with menopause
7. Understand the role of physical or mental abuse in sexual dysfunction in women

SECTION II –OBSTETRICS

T. PRENATAL CARE

1. Identify signs and symptoms of early pregnancy and apply to the clinical findings associated with diagnosis of pregnancy
2. Rehearse advice for frequently asked questions in pregnancy regarding medications, activities, diet, and sexual intercourse
3. Review the components of the initial prenatal visit including history, physical findings and rationale for laboratory tests performed
4. Discuss schedule of subsequent office visits, expected clinical findings, anticipatory guidance given
5. Justify the indication for blood pressure monitoring and urinalysis by dipstick at prenatal visit
6. Understand the significance of maternal blood type in pregnancy, importance of Rh factor, and interventions for Rh negative mothers
7. Summarize early genetic screening tests, timing, and significance/follow up on abnormal results
8. Correctly interpret the results of the one-hour glucose test and outline the appropriate follow-up

U. FIRST TRIMESTER BLEEDING/ECTOPIC/MOLAR PREGNANCY

1. Evaluate the incidence of spontaneous miscarriage, ectopic pregnancy and molar pregnancy for the general population
2. Recognize the importance of early diagnosis and intervention in ectopic pregnancy and molar pregnancy to preserve fertility, reduce morbidity and mortality
3. Determine the appropriate evaluation and initial management of ectopic and molar pregnancy
4. Compare and contrast the types of abortion: spontaneous, elective, threatened, inevitable, recurrent/habitual, incomplete, and septic
5. Summarize the different managements of the various types of abortion listed in #4
6. Outline the use laboratory diagnostics and ultrasound to evaluate and diagnose the etiology of first trimester bleeding
7. Manage a patient who presents with first trimester bleeding from presentation to management, clinical intervention and resolution including history taking, pelvic exam, ordering and interpreting labs and diagnostics
8. Relate the indications for medical vs. surgical management of ectopic pregnancy
9. Recognize the presenting signs and symptoms or hydatidiform mole, and the management and follow-up of the patient upon diagnosis
10. Work through case studies involving a variety of patients who present with first trimester bleeding

V. ELECTIVE ABORTION

1. Summarize the counseling and informed consent process for elective abortion
2. Identify methods used to document pregnancy and gestational age
3. Outline the medical evaluation and management of patient's pre- and post- abortion
4. Describe the procedures used to terminate a pregnancy
5. Understand the potential complications of abortion procedures
6. Summarize the routine aftercare of patients, including follow-up exams and contraception

W. COURSE/COMPLICATIONS OF PREGNANCY

1. Summarize the anticipated maternal physiologic changes that occur as a result of pregnancy
2. Understand the significance, etiology and response to vaginal bleeding in the first, second and third trimesters of pregnancy
3. Discuss the complication of infection during pregnancy
4. Recognize and treat pregnancy induced hypertension (PIH), pre-eclampsia, eclampsia and HELLP during pregnancy
5. Identify, evaluate, and manage patients with gestational diabetes and macrosomia
6. Explain the signs of premature labor and premature rupture of membranes (PROM) and appropriate response at various stages of gestation
7. Recognize isoimmunization problems and apply appropriate prevention and clinical intervention if isoimmunization does occur
8. Identify and clinically manage a fetus suspected to have intrauterine growth restriction (IUGR)
9. Summarize common medical disorders that occur during pregnancy and approaches to treatment
10. Recognize the difference in management of a multiple pregnancy and understand common problems that may arise

X. ANTENATAL SURVEILLANCE/INTRAPARTUM MONITORING

1. Outline common tests used in antenatal surveillance along with the indication for them
2. Justify the rationale for intrapartum monitoring, types of fetal heart rate decelerations with proposed physiological mechanism
3. Summarize the importance of beat-to-beat variability and fetal scalp pH
4. Evaluate the actual impact fetal monitoring has had on the morbidity and mortality of the newborn

Y. LABOR & DELIVERY (L&D)

1. Outline and define the stages of normal L&D
2. Compare and contrast the sequence of events and average length of time spent in each stage of labor
3. Understand the mechanisms of labor, describe the determination of fetal head presentation and its effect on labor progress
4. Summarize the various methods of anesthesia used in L&D and anticipated effects on mother and fetus
5. Review the classification and repair of vaginal lacerations associated with delivery along with indications for episiotomy
6. Illustrate the important features of the placenta to be examined post-partum
7. Discuss current recommendations surrounding L&D for women who have had previous Cesarean section
8. Define and describe the etiology and response to primary and secondary arrest of labor
9. Explain the response to non-vertex fetal presentation
10. Summarize the etiology and response to intrapartum maternal bleeding
11. Describe the etiology and response to post-partum bleeding
12. Outline the etiology and response to intrapartum fever
13. Classify and describe the indications for the various methods of fetal extraction
14. Classify and describe the indications for various methods of operative vaginal delivery
15. Summarize the indications for cesarean section, types of cesarean section, complications that may arise, and morbidity and mortality associated with cesarean section
**Course Overview:** The instructor and Carroll University reserve the right to modify, amend, or change the syllabus (course requirements, grading policy, etc.) as the curriculum and Physician Assistant Program require(s).

**Tentative Lecture, Lab and Exam Schedule:** [Readings from Decherney]

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<td>Reproductive Embryology &amp; Anatomy</td>
<td>Chapters 1-2</td>
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<tr>
<td>Wed. 9/13</td>
<td>Women’s Health Examination, Adolescent Gynecology, Reproductive Ethics</td>
<td>Chapters 35 and 37</td>
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<td>Thurs. 9/14</td>
<td><strong>LAB:</strong> Female and Male practice models</td>
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<tr>
<td>Wed. 9/20</td>
<td>Genetics &amp; Physiology I</td>
<td>Chapters 3-4</td>
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<tr>
<td>Thurs. 9/21</td>
<td><strong>LAB:</strong> Female and Male practice models</td>
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<tr>
<td><strong>Sat. 9/23</strong></td>
<td>(GTA) Chicago Group—Patient Exams</td>
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<tr>
<td>Wed. 9/27</td>
<td>Menstrual Disorders and Dysmenorrhea</td>
<td>Chapters 38 and 54</td>
</tr>
<tr>
<td>Thurs. 9/28</td>
<td>Genetics &amp; Physiology II</td>
<td>Chapters 3-4</td>
</tr>
<tr>
<td>Wed. 10/4</td>
<td>Endometriosis and Chronic Pelvic Pain</td>
<td>Chapter 56</td>
</tr>
<tr>
<td></td>
<td><strong>WAPA (Oct. 11-13)</strong></td>
<td><strong>ATTEND WAPA (Oct. 11-13)!</strong></td>
</tr>
<tr>
<td></td>
<td><strong>FALL BREAK (Oct. 16-17)</strong></td>
<td><strong>Relax with a good book!</strong></td>
</tr>
<tr>
<td>Wed. 10/18</td>
<td><strong>EXAM 1 (thru CPP 10/4)</strong></td>
<td></td>
</tr>
<tr>
<td>Thurs. 10/19</td>
<td>Benign Breast Disease and Cancers</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>Wed. 10/25</td>
<td>Breast Feeding</td>
<td>Chapter 7 (p. 160); Chap 9 (p. 188) Chapter 10 (p. 206-213)</td>
</tr>
<tr>
<td>Thurs. 10/26</td>
<td>Pap Smears, HPV, Cervical &amp; Other Gynecological Cancers</td>
<td>Chapter 39; 47-52; Chapter 37 (p. 609-610); Chapter 40 (p. 651-652)</td>
</tr>
<tr>
<td>Wed. 11/1</td>
<td>Benign Disorders</td>
<td>Chapters 39-41</td>
</tr>
<tr>
<td></td>
<td>Infectious Diseases</td>
<td>Chapters 39; 43</td>
</tr>
<tr>
<td>Thurs. 11/2</td>
<td>Hyperandrogenic Disorders/ PCOS</td>
<td>Chapter 41 (p. 665)</td>
</tr>
<tr>
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<td></td>
<td>Chapter 54 (p. 892-893); Chap 55</td>
</tr>
<tr>
<td>Wed. 11/8</td>
<td><strong>EXAM 2 (thru ID 11/1)</strong></td>
<td></td>
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<tr>
<td>Thurs. 11/9</td>
<td>Contraception</td>
<td>Chapter 58</td>
</tr>
<tr>
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<td>Infertility and Sexual Dysfunction</td>
<td>Chapter 53</td>
</tr>
<tr>
<td>Wed. 11/15</td>
<td>Menopause</td>
<td>Chapter 59</td>
</tr>
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<td></td>
<td>Urinary Dysfunction</td>
<td>Chapter 42</td>
</tr>
<tr>
<td></td>
<td>Sexual Assault</td>
<td>Chapter 60</td>
</tr>
<tr>
<td>Thurs. 11/16</td>
<td>Prenatal Care</td>
<td>Chapter 6</td>
</tr>
<tr>
<td></td>
<td>1st Trimester bleeding/molar pregnancy</td>
<td>Chapters 8; 12-18</td>
</tr>
<tr>
<td></td>
<td>Elective Abortion</td>
<td>Chapter 58 (p. 943-947)</td>
</tr>
<tr>
<td>Wed. 11/22</td>
<td><strong>LAB:</strong> In the Womb—Movie</td>
<td>Posted Handout</td>
</tr>
<tr>
<td></td>
<td><strong>THANKSGIVING BREAK (Nov. 23 &amp; 24)</strong></td>
<td><strong>Enjoy time with family!</strong></td>
</tr>
<tr>
<td>Wed. 11/29</td>
<td>Complications of Pregnancy</td>
<td>Chapters 14; 21; 26-34</td>
</tr>
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<td>*Topics covered in lecture</td>
</tr>
<tr>
<td>Thurs. 11/30</td>
<td><strong>LAB:</strong> Simulation Labor &amp; Delivery</td>
<td>Simulation Lab—Sentry Drive</td>
</tr>
<tr>
<td>8:00 – 10:00</td>
<td></td>
<td>Nicole Mattson</td>
</tr>
<tr>
<td>Wed. 12/6</td>
<td>Fetal Monitoring</td>
<td>Chapter 9</td>
</tr>
<tr>
<td></td>
<td>Labor &amp; Delivery</td>
<td>Chapters 7; 19-20</td>
</tr>
<tr>
<td>Thurs. 12/7</td>
<td>OB Case Discussion</td>
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<tr>
<td>Tues. 12/19</td>
<td><strong>EXAM 3 (thru L&amp;D 12/7)</strong></td>
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<td>9:00 – 11:00</td>
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