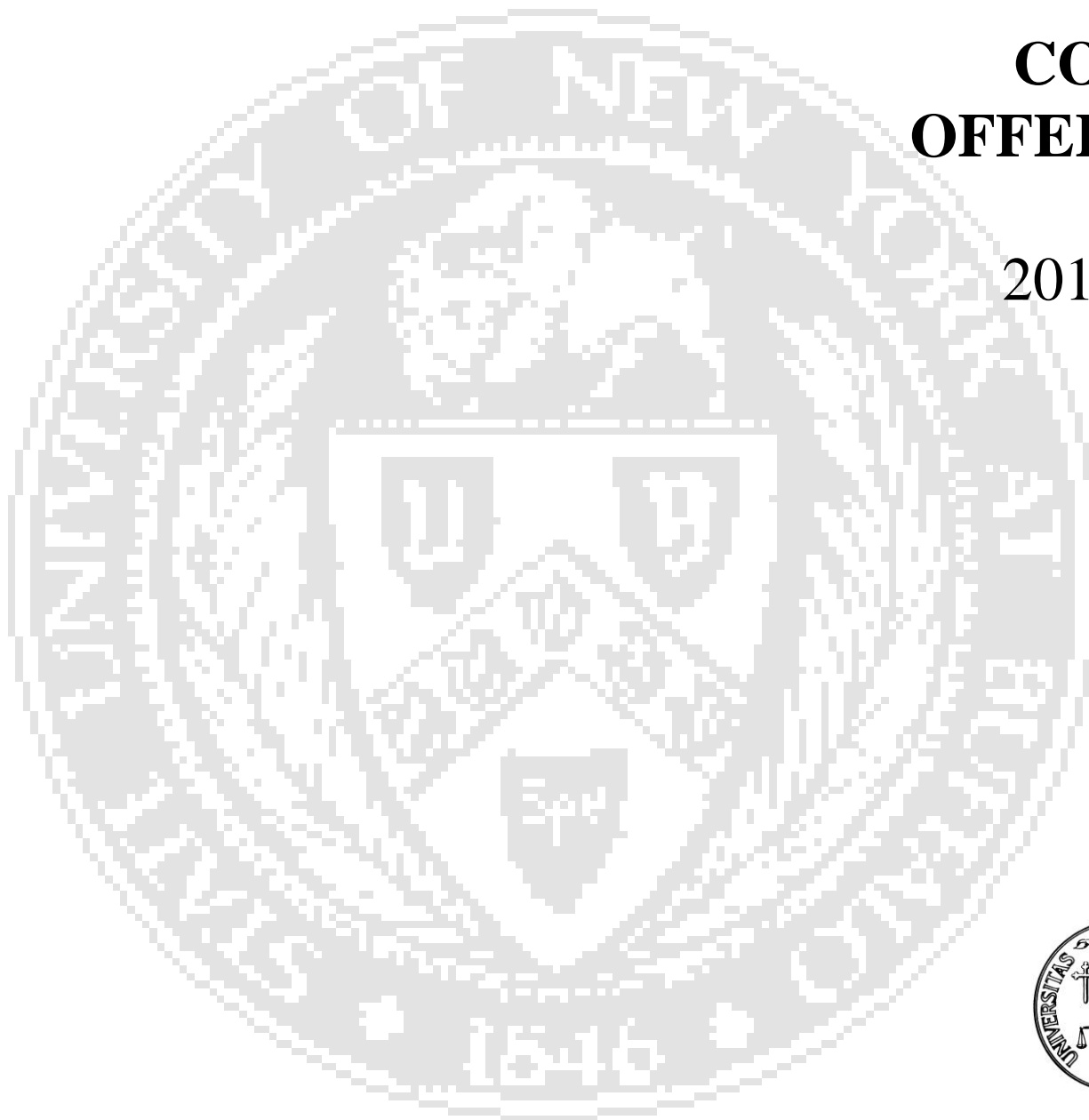


COURSE BOOK

COURSE OFFERINGS

2011-2012



**SCHOOL OF MEDICINE
AND BIOMEDICAL SCIENCES**

UNIVERSITY AT BUFFALO

Updated 2011

DEPARTMENT OF GYNECOLOGY-OBSTETRICS

The Department of Gynecology-Obstetrics is concerned with women's health, particularly as it may be affected by childbearing. The program involves clerkships in the Buffalo General, Erie County Medical Center, Children's, Millard Fillmore, Sisters of Charity, and Mercy Hospitals. The gynecologic services of the Roswell Park Cancer Institute are also included.

***GYN-700 CLERKSHIP IN GYNECOLOGY-OBSTETRICS** 6 credits. Block 1-4. Contact departmental office for site location. Prerequisite-Junior medical student.

Represents a six-week block in the third year. Among the objectives of this clinical clerkship are:

1. Explain sex and gender differences in normal development and pathophysiology as they apply to prevention and management of diseases.
2. Compare differences in biological functions, development, and pharmacologic response in males and females.
3. Discuss the pathophysiology, etiology, differential diagnosis, and treatment options for conditions that are more common, more serious, or have interventions that are different in women.
4. Discuss the pathophysiology, etiology, differential diagnosis, and treatment options for conditions and functions that are specific to women.
5. Effectively communicate with patients, demonstrating awareness of gender and cultural differences.
6. Perform a sex-, gender- and age-appropriate physical examination.
7. Discuss the impact of gender-based societal and cultural roles and context on health care and on women.
8. Identify and assist victims of physical, emotional, and sexual violence and abuse.
9. Assess and counsel women for sex- and gender- appropriate reduction of risk, including lifestyle changes and genetic testing.
10. Discuss the impact of health care delivery systems on populations and individuals receiving health care.
11. Learn about normal and abnormal labor and delivery and complications of pregnancy and other common medical and surgical conditions associated with pregnancy.

In the third year, a six-week clinical clerkship offers each student an opportunity for personal firsthand experience in the care of both normal and abnormal pregnancy. Experience gained by working with patients is reviewed in group conferences and on ward rounds. Concepts not readily observed during the direct patient contact are emphasized in special conferences.

The student is provided with an opportunity to develop clinical skills under adequate supervision in the areas of history taking, pelvic examination, special diagnostic procedures, differential diagnosis, observation and support of patients in labor, aiding and then conducting actual delivery, and assisting at gynecologic operations. Each student has an opportunity to participate in the active care of patients both in inpatient wards and in the outpatient clinics.

Students who develop an interest in clinical or basic investigation are encouraged to pursue their interests. Four-week elective periods during the fourth year may provide either additional clerkship experience or opportunity to pursue investigative interests.

GYN-800 SUBINTERNSHIP IN GYNECOLOGY-OBSTETRICS 4 credit. Modules C-L. **NOTE:** Site: Sister's Hospital Dr. Strittmatter. Number of students: 1 senior/1 junior. Prerequisite-Successful completion of GYN 700

This clerkship is comprised of predominantly inpatient experience, but participation in the Outpatient Clinic and Emergency Room is available. The clerkship will be part of the health care team comprised of the house staff and the attending staff and will assist in providing general obstetrical and gynecological care.

The student will have numerous opportunities to participate and be part of the 250-plus deliveries per month and assist at the gynecologic surgical procedures and will be able to assume patient care responsibility, depending upon their level of training, interest, and commitment to self-education. The clerkship will serve to enhance diagnostic skills and management formation as well as reinforce experiences learned during the third year. Besides participating in a very active clinical service, there is a significant amount of didactic teaching.

The value of this rotation is that it provides an individual with interest in this discipline as a potential career an opportunity to witness firsthand private practice in a large Catholic community hospital.

GYN-804 SUBINTERNSHIP IN GYNECOLOGY-OBSTETRICS 4 credits. Modules D-K. Contact departmental office for site information Prerequisite-Senior medical student. Drs. Greene and Wesolowski, Niagara Falls, N.Y Number of students: 1. Prerequisite Successful completion of GYN 700

The main objective of this rotation is to expose the students to a busy private gynecology-obstetrics practice in a fully accredited hospital where there is ample opportunity for the student to observe and participate in the "general practice" of gynecology and obstetrics.

The students will assist at major gynecologic surgery as second assistants. They will have a selection of cases to choose from. In addition to cases performed by the instructor, the students will follow patients in labor and assist at deliveries. The student should become familiar with the reading and interpretation of fetal heart tracings. The student may be assigned an independent research project and will be invited to attend all staff Gyn-Ob meetings. The student will also observe some office gynecology.

On completion of the rotation, the students should have acquired experience in evaluating the more common gynecological complaints as they present in a private office. They should have gained some confidence in assisting at major gynecological operations, and should be able to recognize the more common complications that occur in pregnancy and in labor.

GYN-810 GYNECOLOGIC ONCOLOGY 4 credits. Modules B-L. Contact departmental office for site location. Drs. S. Lele, Odunsi, and DuPont. Number of students: 1 senior/1 junior. Prerequisite-Successful completion of GYN 700

The intent of this rotation is to help students gain experience in methods of treatment and diagnosis of patients with gynecologic cancer.

The students will participate in all aspects of diagnosis, problem solving, and treatment of patients with gynecologic cancer admitted to University-affiliated Gyn-Ob units. They will be exposed to pelvic anatomy by scrubbing in radical pelvic surgery, and team the principles of radiotherapy. Experience with the use of chemotherapy in gynecologic cancer will also be gained.

Upon completion of this rotation, the students should know how to screen the general population for early detection of cancer.

GYN-821 SUBINTERNSHIP IN CLINICAL GYNECOLOGY-OBSTETRICS 4 credits. Module B-L. Drs. ~~Brar~~, Kahn. Number of students: 2 senior/1 junior. Prerequisite-Successful completion of GYN 700

The goals of this rotation are to allow the students to observe and participate in the clinical management of obstetric and gynecologic patients.

During the rotation the students will be given the opportunity to observe and participate in management of outpatient and in-hospital obstetrics and gynecological patients particularly in urban, underserved areas.

Upon completion of the rotation, the students will be able to recognize, manage, and treat common obstetrical and gynecological problems. The students should be able to perform normal vaginal deliveries and do D&C's, cervical biopsies. They should also perform pelvic exams and office management of obstetric and gynecologic conditions.

GYN-823 SUB-INTERNSHIP IN MATERNAL-FETAL MEDICINE 4 credits Modules B-L. A "C" after the module in the Class Schedule indicates Woman & Children's Hospital of Buffalo (Perinatal Center) as the site. Prerequisite-Senior medical student. Dr. Amol Lele. Number of students: 1. Students are encouraged to contact the Instructor prior to starting the rotation. Third year students, see description below.

The Sub-internship in Maternal-Fetal Medicine is designed to provide the fourth year student with experience in complicated pregnancy management. Students committed to a career in Obstetrics and Gynecology will have the additional advantage of enhancing their clinical and technical skills in anticipation of beginning their residency training. The student will be a member of the high risk pregnancy team at the Regional Perinatal Center, and will learn the principles involved in the management of medical & surgical complications of pregnancy, as well as the management of structural, genetic and physiologic fetal disease states. The student will be exposed to basic and advanced obstetrical ultrasound, fetal surveillance techniques, Doppler ultrasound, fetal echocardiography, amniocentesis and invasive fetal procedures. The experience will include inpatient, consultative and outpatient complex pregnancy management. Experience in ambulatory care will take place in the High Risk Pregnancy Clinic and Pregnancy Diabetes Clinic housed in the perinatal center. **Attendance at both of these clinics, which take place weekly, is mandatory.** Students are required to take at least two night calls during the rotation to experience emergency and acute perinatal care. Didactic teaching will consist of conferences, rounds, and selected assigned reading. Research opportunities are available for the interested student. At the end of the rotation, students will be able to identify perinatal risk factors and have an appreciation for the medical and technical aspects of complex pregnancy management.

GYN-823 SUB-INTERNSHIP IN MATERNAL-FETAL MEDICINE 4 credits Blocks 1-4. Site: Woman & Children's Hospital of Buffalo (Perinatal Center). Prerequisite-Successful completion of GYN 700. Dr. Amol Lele. Number of students: 1. Students are encouraged to contact the Instructor prior to starting the rotation.

The **third** year elective in Maternal-Fetal Medicine is designed to provide the third year student with experience in complex pregnancy management. Didactic teaching is provided through rounds, conferences and selected assigned readings. The student will participate in morning rounds on inpatients, observe consultative perinatology, and participate in ambulatory care of complex pregnancies in the High Risk Pregnancy Clinic and Pregnancy Diabetes Clinic at the perinatal center. **Attendance at both of these clinics, which take place weekly, is mandatory.** Exposure to obstetrical ultrasound, fetal surveillance techniques, and select invasive obstetrical procedures will be provided. At the end of the rotation, the student should be able to identify Perinatal risk, and have an appreciation for the medical, surgical and technologic modalities involved in the management of complicated pregnancies.

GYN-829 REPRODUCTIVE ENDOCRINOLOGY 4 credits. **NOTE:** Module B-L. Prerequisite-Senior medical student. Dr. Crickard. Number of students: 1

This elective is offered to fourth year medical students who wish to gain experience in all aspects of Reproductive Endocrinology. Students will be exposed to a variety of patients in an outpatient setting as well as both office and hospital based surgery. A significant portion of the clinical material is centered on infertility diagnosis and treatment. Some of the procedures utilized in the office setting will include the following: vaginal ultrasound monitoring of ovulation and early pregnancy, intrauterine insemination, sonohysterosalpingograms, and ovulation induction with fertility medication. A full range of assisted reproductive technologies is performed in the office and IVF/Andrology laboratory. Students will be exposed to In Vitro Fertilization, microinjection of sperm into oocytes (ICSI), transvaginal aspiration of ovarian follicles under conscious sedation, computerized semen analysis, and cryopreservation of embryos, semen and testicular tissue.

In addition to infertility patients, the student will be exposed to patients with a variety of presenting complaints such as: endometriosis, pituitary tumors, hyperprolactinemia, irregular bleeding, polycystic ovarian syndrome, hirsutism, uterine and vaginal congenital anomalies, fibroid uterus, menopausal symptoms, and ovarian cysts.

Hospital based surgery is performed four days a week. The student will be exposed to laser laparoscopy, operative and diagnostic hysteroscopy, myomectomies, exploratory laparotomies for endometriosis and a variety of benign gynecologic problems. In addition, the various operative techniques utilized to reduce adhesion formation will be stressed.

Finally, the student will be exposed to ongoing research projects which currently include: 1) use of genetically engineered LH to determine its role in maturation of ovarian follicles, 2) epidemiological studies with endometriosis patients, 3) role of cytokines in polycystic ovarian patients with insulin resistance.

Evaluation of student performance will include didactic presentations as well as indicators listed in the Consensus Evaluation Form.

GYN-830 PRECEPTORSHIP IN CLINICAL GYNECOLOGY-OBSTETRICS 4 credits. **NOTE:** Contact department offices for site location. Modules B-F,I-L. Prerequisite-Senior medical student or permission of OME and instructor. Drs. Todoro, Santos and Smith. Number of students: 1 senior/1 junior. Prerequisite-Successful completion of GYN 700

The goals of this rotation are to help students gain practical experience in gynecology-obstetrics in both the office and the hospital.

The students will be exposed to all diagnostic procedures used in private practice: taking histories and doing pelvic examinations, Pap smears, and office-oriented laboratory tests. The students will be exposed to normal prenatal patients.

Upon completion of this rotation, the students should be able to diagnose and at least plan for treatment of all common and some uncommon conditions of patients in the private practice of gynecology and obstetrics.

GYN-840 PRECEPTORSHIP IN GYNECOLOGY AND OBSTETRICS 4 credits. Modules B-L. **NOTE:** Prerequisite-Senior medical student or permission of OME and instructor. Dr. Abu-Sitta, Coordinator Number of students: 1 senior.

The goal of this course is aimed at an expansion of knowledge gained in the third-year clerkship by providing special opportunities to refine, develop, and practice those skills which relate directly to the delivery of care in obstetrics and gynecology.

The course will be conducted in affiliated and participating hospitals, specified clinics in gynecology and obstetrics, and in private office settings. Preceptor arrangements, to be established early in the course, will provide the basis for determining individual activity scheduling for the course. A course topic outline, supplemented with suggested bibliographic references, will be made available to students in order to complement his or her learning. Knowledge of the mechanics and techniques involved in running a private office will also be provided.

Upon completion of the course, each student will be expected to be able to: (1) arrange for or conduct appropriate management of *any* gynecologic or obstetric condition revealed in his or her examination of the patient; (2) recognize his or her own limitations in the diagnosis and treatment of the patient; (3) know the options available for patient care, and when and how to seek consultation and to make referrals.

GYN-890 COURSE AT OTHER UNIVERSITY 4 credits. Modules B-L. Contact departmental office. Prerequisite-Senior medical student.

By arrangement with other university and chairman of Department of Gynecology-Obstetrics and the School of Medicine.

GYN-950 RESEARCH 4 credits. Prerequisite-Senior medical student and permission of OME and instructor. Dr. Glenna Bett. Contact departmental office.

Students may have an opportunity to work with a faculty member on an ongoing research project or a research project of their own.
