Clinical Dermatology

**Course Description**

Dermatology 810 is an introduction to the specialty of dermatology. Students will be exposed to the entire spectrum of disease seen by the practicing dermatologist. Evaluation and treatment of common diseases of the skin, hair, and nails, particularly those likely to be encountered by primary care practitioners, will be emphasized.

Students will have the opportunity to evaluate patients in several outpatient medical and surgical dermatology clinics, assist in management of inpatient dermatology consults, attend lectures on dermatology, and participate in dermatology grand rounds.

**Course Content & Objectives**

The elective is designed to familiarize the student with:

1. The spectrum of disease found in the specialty of dermatology;
2. The organization of the skin and skin appendages and the functional significance of each component;
3. The standard terminology used in describing dermatologic disease;
4. The clinical presentation of common skin diseases and therapies used in their management;
5. The recognition of premalignant and malignant skin diseases and effective strategies in educating patients in photoprotection;
6. Adjunctive techniques used in diagnosis of skin disease (e.g., KOH preps, scabies preps, skin biopsies); and
7. Working in a specialty clinic environment and managing cases in conjunction with primary care providers.

**Learning Methods**

1. Students will attend medical and surgical dermatology clinics with dermatology faculty and residents. The student will participate in all aspects of the evaluation and management of dermatology patients.
2. Students will be loaned an introductory dermatology text.
3. Students will attend dermatology grand rounds conferences and participate in the examination of grand rounds patients and the discussion of the cases.
4. Students will be assisted in selecting a topic of dermatologic interest and in preparing a 10 minute presentation and short handout on the topic.
5. Students will participate in a multiple choice examination consisting of questions and images relating to common skin conditions.

**Evaluation**

Grade - Pass/Fail. Grade will be determined based on an overall evaluation of the following: attendance and participation...
in clinics, student presentation, performance on student exam, patient care, medical knowledge, practice-based learning/improvement, interpersonal and communication skills and professionalism.

**Prerequisites**
- Satisfactory completion of third year curriculum.

**Specific Contact Info:**
- Heidi Sowl, Residency Coordinator, heidi.sowl@wright.edu

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<th>DRM 810</th>
<th>Last Dept. Review Date: 12/12/2018</th>
<th>Last Catalog Modification: 12/12/2018</th>
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Emergency Medicine Clerkship  

Enrollment 10-14 students per month.

The course director determines site assignments based on a matching process, which considers each hospital's capacity for students, as well as the student's preference for both location and block. Possible sites include: Children's Medical Center, Greene Memorial Hospital, Kettering Medical Center, Miami Valley Hospital, and Wright-Patterson Air Force Base Medical Center.

Possible sites include: Children's Medical Center, Greene Memorial Hospital, Kettering Medical Center, Miami Valley Hospital, and Wright-Patterson Air Force Base Medical Center.

Clinical Elective  

Non-Surgical Elective  

Capacity: Min 1  Max 12  Drop/Add Days: 30

Full-block.

Course Director(s) & Faculty

Stacey Poznanski, D.O., M.Ed., Course Director
Assistant Professor, Department of Emergency Medicine

Course Description

This course provides the student with an in-depth exposure to and interaction with a wide variety of patients and problems presenting to the emergency department. The curriculum is taught with a focus on active learning, utilizing a mixture of interactive didactics, patient simulation, procedure training and independent reading. Course materials are provided via Pilot and the Clerkship Directors in Emergency Medicine (CDEM) curriculum website. Didactic sessions are held in the Department of Emergency Medicine. Students are also required to attend the resident weekly conference on Tuesday mornings. The students will have 100 closely supervised clinical hours with graded responsibility consistent with his/her knowledge and skill. Focused history and examination skills, ancillary testing, and management and disposition of the emergency department patient will be covered. NBME Emergency Medicine “Shelf” Examination is given at the conclusion of the course.

Evaluation

A grade of Pass/Fail with percentage will be assigned; 80% reflects clinical evaluations, and 20% reflects attendance/participation.

Specific Contact Info:

Lynn DeWine, Student Coordinator, lynn.dewine@wright.edu

EMD 891  

Last Dept. Review Date: 12/12/2018  

Last Catalog Modification: 12/12/2018
Family Physician in the Community Setting

Primarily sites are located in the greater Dayton community with other options available. Rural sites in southwestern Ohio are included as options as well as student-initiated sites (with director approval). Housing may be available when the daily commute to and from the Dayton area is impractical. The student will practice in the physician’s office as well as his/her associated hospital(s) and other health services facilities.

Lead time required to DROP/ADD elective - 1 month. Contact the Education Manager at 245-7226 and email Juanita Griffin: juanita.griffin@wright.edu at least one month in advance to schedule a preceptor. Desired locations may not be able to be scheduled unless contacted at least one month in advance. Rotation will be canceled if no contact to department within 30 days of scheduled rotation. Out of state rotations are self-designed.

Maximum of 2 per month in town; unlimited if student arranges own out-of-town preceptor (with director’s approval).

Full-block.

Clinical Elective  Non-Surgical Elective  Capacity: Min 1  Max 2  Drop/Add Days: 30

Course Director(s) & Faculty

John Donnelly, M.D., Director, Professor, Dept of Family Medicine /
Katharine Conway, M.D., Director, Dept of Family Medicine
Family Medicine Preceptor in Community of Choice

Course Description

The student will participate in the daily practice of medicine with the preceptor, including evening hours and after-hour call activities, where applicable. The experience may include exposure to all or part of the following elements, depending on the specific components of the selected Family Practice: ambulatory care, in-patient care, obstetrical care, newborn care, surgery, and extended geriatric care. Student involvement is expected to be comprehensive, but will be determined by the preceptor in conjunction with the student. Student ambition, interest, experience, and capabilities will ultimately influence the level of involvement. Overall, the experience should expose the student to the full impact of private practice.

Course Content & Objectives

A. The student will become more familiar with the field of Family Medicine and the professional/personal life of a family physician. The student will:
   1. Appreciate the scope, demands, and rewards of Family Medicine;
   2. Identify various family physician roles, such as health care provider, community leader, educator, practice manager, and health care resource coordinator;
   3. Appreciate the breadth of health care services provided by the family practitioner; and
   4. Be able to engage in a philosophical discussion of Family Medicine.

B. The student will further his/her understanding of the day-to-day functions of a family practice office. The student will:
   1. Evaluate office management procedures and problem-oriented medical records;
   2. Appraise the need for and appropriateness of continuing medical education opportunities available to family practitioners; and
   3. Observe the care and services provided by all members of the medical office.

C. The student will correlate his/her academic experience with practice. The student will:
   1. Apply history and physical examination skills;
   2. Perform/assist with diagnostic or therapeutic procedures, as deemed appropriate by the preceptor and student;
   3. Participate in activities outside of the ambulatory setting, such as hospital rounds, home visits, emergency calls, and community medicine activities;
   4. Attend medical society activities as well as local continuing medical education programs;
   5. Study patient cases encountered during the elective period, providing an assessment, a management plan, recommended follow-up, and references;
   6. Complete a full history and physical exam or perform a study of a family; and
Learning Methods
In general, the student will learn through observation, participation, discussion and reading or research activities.

Evaluation
A. The preceptor will submit, on a form provided, an appraisal of the student’s medical knowledge, history-taking skills, physical exam skills, problem solving abilities, patient management skills, procedural skills, patient relationships, professional relationships, documentation skills, reliability, progress, and overall competence.
B. The student will submit, on a form provided, an appraisal of the effectiveness of the preceptor and the elective in general.

Departmental requirements to be submitted to the Department of Family Medicine one week after the end of the elective in order for credit to be given:
1. Student evaluation of selective (One form)

From the Preceptor: Evaluation of student performance (will be done electronically)
Grade: Pass/Fail

Prerequisites
The student must be at the fourth year level and must have satisfactorily completed the third year clerkship in Family Medicine.

Specific Contact Info:
Juanita Griffin, Medical Education Manager, juanita.griffin@wright.edu

This Course is identical to: FMD 801 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 12/12/2018
Dental Considerations In Medicine

Time & Location

Half-block.

Clinical Elective Non-Surgical Elective Capacity: Min 1 Max 1 Drop/Add Days: 60

Learning Methods

Evaluation

Wright State University Boonshoft School of Medi
a. Oral examination at end of the elective by the Director
b. Daily discussion of student's clinical observations
c. Grade: Pass/Fail

Departmental requirements to be submitted to the Department of Family Medicine one week after the end of the elective in order for credit to be given:
1. Student evaluation of selective (One form)

Prerequisites
The student must be at the fourth year level and must have satisfactorily completed the third year clerkship in Family Medicine.

Specific Contact Info:
Juanita Griffin, Medical Education Manager, juanita.griffin@wright.edu

FMD 805  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Sub-Internship in Family Medicine

Assigned Hospital - Inpatient, Five Rivers Family Health Center-Outpatient.

Lead time required to DROP/ADD elective - 1 month

Family Medicine

Wright State University Family Medicine Residency

Five Rivers Family Health Center

2345 Philadelphia Dr

Dayton, OH 45406

Clinical Elective

Non-Surgical Elective  Capacity: Min 1 Max 2 Drop/Add Days: 30

Full-block.

Course Director(s) & Faculty

Denise Griffith, M.D., Director
Anne Proulx, D.O.,
Elisabeth Righter, M.D.,
Peter Reynolds, M.D., Residency Director
Lisa Kellar, M.D.
Nicole Turkson, M.D.
F. Stuart Leeds, M.D.
Clinical Chief Resident of the month
Juanita Griffin - Education Manager DFM: 937-245-7226
Jackie Mullins- Residency Coordinator Wright State University Family Medicine: 937-275-2792

Counts as a Sub-Internship

The student will function as a sub-intern under the direct supervision of the clinical Chief Resident and the faculty. S/He will participate in the admission and management of inpatients as well as outpatients, including newborns with our Department of Family Medicine Team.

Course Content & Objectives

a) Direct involvement in daily patient care on the Family Practice inpatient service under supervision of the faculty and resident staff
b) Management of ambulatory patients one half day a week under supervision of the faculty and resident staff
c) Participation in bedside and teaching rounds, lectures, and didactics. The student will be expected to follow patients that they have admitted or are assigned, attend daily bedside teaching rounds, and weekly resident didactic sessions on Wednesday afternoons. Student will take overnight call during a night float week. Student will prepare and present a 20-30 minute presentation to be given at the last Wednesday didactic session for the whole residency. The topic will be determined based on the topic theme of the didactics for that month or on a particularly interesting patient care issue encountered during the month.
d) Assigned reading. There will be a Sub-I reading list provided before the rotation.
e) Assigned presentation: The student will prepare and present to residents and faculty a talk on a clinical subject of his/her choice. This will be done during the last week of the rotation during residents’ didactic afternoon.
Objectives:
a) Improve ability to perform a comprehensive history and physical examination.
b) Utilize history, physical examination and appropriate ancillary tests to develop adequate differential diagnosis.
c) Evaluate, organize and verbally present patient data in a logical and coherent fashion.
d) Develop appropriate referral, consultation and utilization patterns of allied health professionals and facilities.
e) Arrange for effective discharge planning and appropriate follow-up.
f) Develop an appreciation and understanding for methods of patient education including written materials and audiovisual aids. These are incorporated into the treatment regimen to reinforce the patient’s understanding of his/her disease and the need for his/her cooperation in the treatment plan.

Evaluation
a) Student’s histories and physicals will be reviewed by the preceptor for completeness, proper use of terms, and ability to convey to preceptor the nature of the patient’s problem.
b) The student will be observed performing procedures, interacting and counseling patients with critique and feedback provided by preceptors and behavioralist.
c) Prior to patient discharge, student will present to preceptor his/her desires for appropriate discharge instructions and follow-up for the patient.
d) Student will be provided an evaluation according to the criteria established by Wright State University Boonshoft School of Medicine.
e) Grade: Pass/Fail

Departmental requirements to be submitted to the Department of Family Medicine one week after the end of the elective in order for credit to be given:
1. Student evaluation of selective (One form)

Prerequisites
The student must be at the fourth year level and must have satisfactorily completed the third year clerkship in Family Medicine. Final approval at the discretion of director.

Specific Contact Info:
Juanita Griffin, Medical Education Manager, juanita.griffin@wright.edu

FMD 806  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Course Director(s) & Faculty
Dr. Corey Ellis, Faculty Site Director

Course Description
This elective is designed for students going into primary care specialties who want experience in diagnosing musculoskeletal conditions. Students will rotate through Wright State Physicians sports medicine. The emphasis is on diagnosis and nonoperative treatment of musculoskeletal conditions.

- Students are expected to dress professional at all times. No open-toed shoes or jeans are permitted.
- Except for earrings for females, visible body piercing including but not limited to the tongue is not permitted and must be removed when at work.
- No eating or drinking is allowed in the clinic area.
- No surfing the internet is allowed in the physician’s dictation area.
- Cell phone use will only be allowed after your daily rotation ends or during your lunch and only outside of the department

Course Content & Objectives
On completion of the elective the student will be able to:

a. Do a comprehensive musculoskeletal examination.

b. Diagnose and initiate treatment of common orthopaedic conditions seen in an outpatient setting.

c. Learn when it is appropriate for the primary care physician to refer musculoskeletal conditions to a specialist.

d. May perform simple casting and joint aspiration/injections if opportunity presents

e. Order and read orthopaedic radiographs.

Learning Methods
a. Assigned readings in clinical text

REQUIRED READING: Articles, to be sent to students.

SUGGESTED READING: Essentials of Musculoskeletal Care by Robert K. Snider & Physical Examination of the Spine & Extremities by Stanley Hoppenfeld. Available in the MVH library. Department copy can be signed out with Student Coordinator but not taken out of the department.

Evaluation
Student’s knowledge of patient care, clinical performance, and ability to diagnose and initiate treatment of common orthopaedic disorders will be the basis for a grade of Pass/Fail. The student will be tested at both the beginning and end of
the rotation to assess knowledge required. This will be incorporated in the overall evaluation.

**Prerequisites**
Completion of Foundations Phase and Clerkships

**Specific Contact Info:**
Juanita Griffin, Medical Education Manager, juanita.griffin@wright.edu

FMD 811  
_Last Dept. Review Date: 1/24/2019_  
_Last Catalog Modification: 1/26/2019_
Only Open to WSU Students

Sub-Internship in Family Medicine

FMD 823

**Time & Location**

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4 weeks, at St. Ann’s Hospital with the Family Medicine Inpatient Hospital Service Team.

Standard schedule: M-F, 7 am - 7 pm, and two weekend days per rotation, 7 am - 7 pm

MUST COMPLETE SEPARATE APPLICATION WITH MT CARMEL. STUDENT ENROLLMENT MUST BE APPROVED BY DR. YOUNG.

Lead time to DROP/ADD – 2 months

**Capacity:** Min 1 Max 1 Drop/Add Days: 60

**Full-block.**

**Course Director(s) & Faculty**

Christine Young, MD, ABFM, Course Director
Family Medicine Residency, Mount Carmel Health System
St. Ann’s Family Medicine Center, 477 Cooper Rd, Suite 300, Westerville, OH
614-898-8808 (office); 614-898-8842 (fax)

**Course Description**

Counts as a Sub-Internship

The student will function as a sub-intern (SI) on the Mount Carmel St. Ann's Family Medicine Residency Program Inpatient Team. The SI will primarily contribute to the management of hospitalized patients and is offered the ability to care for the Family Medicine patients in the ambulatory setting as well. The SI will take two "calls" which equals two 8 hour shifts that fall outside the normal 6am to 6pm Monday - Friday work schedule. The SI will be supervised by the senior Family Medicine residents and the Family Medicine attendings during admissions and follow up patient care.

Upon completion of this rotation the student will be able to:

1. Demonstrate the ability to perform a comprehensive history and physical examination on a hospitalized patient.
2. Utilize history, physical examination and appropriate ancillary tests to develop an appropriate differential diagnosis.
3. Evaluate, organize and verbally present patient data in a logical and coherent fashion.
4. Develop appropriate referral, consultation and utilization patterns of allied health professionals and facilities.
5. Demonstrate respectful and compassionate communication skills with patients, families, colleagues and other health professionals.
6. Arrange for effective discharge planning and appropriate follow-up and demonstrate an awareness of the overall medical system.
7. Develop an appreciation and understanding for methods of patient education to include written materials and audiovisual aids.
8. Develop an appreciation and understanding for the role Behavioral Science in providing services which address the patient’s psychosocial needs.

**Course Content & Objectives**

1. Demonstrate direct involvement in daily patient care of assigned hospitalized patients admitted under the Family Medicine Inpatient Service. The students will perform under the direct supervision of the Attending Physicians and senior residents.
2. The student will be assigned between 3-5 hospitalized patients and will be expected to demonstrate daily management
3. Student will participate in bedside and teaching rounds, didactics and grand rounds. The student will be expected to attend and participate in all teaching rounds and weekly resident didactics (Wednesday mornings).
4. Student will take in-house night call with a senior resident approximately one time per week.
5. The student will be assigned topics relevant to patients encountered on inpatient service to read and present to Attending Physicians and residents.
6. The student will prepare and present to the Attending Physicians and residents a presentation on a clinical subject of his/her choice during a didactic session on Wednesday morning.
7. Other duties as assigned by Attending Physicians and/or Senior Resident.

Learning Methods

1. Direct involvement and responsibility for daily patient care.
2. Participation in in-house night call, check out, work rounds and Attending rounds. Check out and work rounds occur daily, including Saturday and Sunday (if on call).
3. Attendance at scheduled conferences.
4. Reference reading on assigned topics.
5. Ambulatory patient care at the St. Ann’s Family Medicine Center with supervising resident and Attending Physician as assigned.

Evaluation

1. The student’s history taking and physical examination skills will be reviewed by Attending Physician and residents for completeness, proper use of terms and ability to convey to preceptor the nature of the patient’s problem.
2. The student will be observed performing history-taking and physical examination with critique and feedback provided by Attending Physicians and residents.
3. The student’s history and physicals and progress notes will be reviewed by Attending Physician and residents daily.
4. Prior to patient discharge, student will present to Attending Physician and residents, an appropriate discharge plan and instructions including follow-up for the patient.
5. Evaluation of oral presentation skills, including presentation of patients during rounds and presentation of assigned topics.
6. Observation and supervision of procedural skills by Attending Physician and Senior Resident.
7. Student will be provided an evaluation according to the criteria established by Wright State University Boonshoft School of Medicine.

Grade: Pass/Fail

Departmental requirements to be submitted to the Department of Family Medicine one week after the end of the elective in order for credit to be given. Student will submit the following:
1. Preceptor/Elective Evaluation.

Prerequisites

Year IV medical student in good standing and approval by Rotation Director, Dr. Young. Student must submit a completed “Department of Family Medicine Student Elective Application” and requested supporting documentation to Dr. Casey at least 2 months in advance to requested month for elective.

Contact Dalila Byrd, dalila.bennett@wright.edu, for the “Department of Family Medicine Student Elective Application.”

Specific Contact Info:
Christine Young, MD, ABFM, Course Director
Family Medicine Residency, Mount Carmel Health System
St. Ann’s Family Medicine Center, 477 Cooper Rd, Suite 300, Westerville, OH
614-898-8808 (office); 614-898-8842 (fax)

https://bsom.wright.edu/course_catalog/All_BSUM_Courses.pdf
Only Open to WSU Students

Intro - Family Physician in the Community Setting

Time & Location

Primary sites are located in the greater Dayton community with other options available. Rural sites in southwestern Ohio are included as options as well as student initiated sites (with director approval). Housing may be available when the daily commute to and from the Dayton area is impractical. The student will practice in the physician’s office as well as their associated hospital(s) and other health services facilities.

2 week rotation

30

Lead time required to DROP/ADD elective - 1 month. Contact the coordinator at 245-7226 and email Juanita Griffin: juanita.griffin@wright.edu at least one month in advance to schedule a preceptor. Desired locations may not be able to be scheduled unless contacted at least one month in advance. Rotation will be canceled if no contact to department within 30 days of scheduled rotation. Out of state rotations are self-designed.

Maximum of 2 per month in town; unlimited if student arranges own out-of-town preceptor (with director’s approval).

Half-block.

Clinical Elective

Non-Surgical Elective

Capacity: Min 1 Max 1 Drop/Add Days: 30

Course Director(s) & Faculty

John Donnelly, M.D., Director, Professor, Dept of Family Medicine

Family Medicine Preceptor in Community of Choice

Course Description

The student will participate in the daily practice of medicine with the preceptor, including evening hours and after-hour call activities, where applicable. The experience may include exposure to all or part of the following elements, depending on the specific components of the selected Family Practice: ambulatory care, in-patient care, obstetrical care, newborn care, surgery, and extended geriatric care. Student involvement is expected to be comprehensive, but will be determined by the preceptor in conjunction with the student. Student ambition, interest, experience, and capabilities will ultimately influence the level of involvement. Overall, the experience should expose the student to the full impact of private practice.

Course Content & Objectives

A. The student will become more familiar with the field of Family Medicine and the professional/personal life of a family physician. The student will:
   1. Appreciate the scope, demands, and rewards of Family Medicine;
   2. Identify various family physician roles, such as health care provider, community leader, educator, practice manager, and health care resource coordinator;
   3. Appreciate the breadth of health care services provided by the family practitioner; 4. be able to engage in a philosophical discussion of Family Medicine.

B. The student will further his/her understanding of the day-to-day functions of a family practice office. The student will:
   1. Evaluate office management procedures and problem-oriented medical records;
   2. Appraise the need for and appropriateness of continuing medical education opportunities available to family practitioners; and
   3. Observe the care and services provided by all members of the medical office.

C. The student will correlate his/her academic experience with practice. The student will:
   1. Apply history and physical examination skills;
   2. Perform/assist with diagnostic or therapeutic procedures, as deemed appropriate
   3. Participate in activities outside of the ambulatory setting, such as hospital rounds, home visits, emergency calls, and community medicine activities;
   4. Attend medical society activities as well as local continuing medical education programs;
   5. Study patient cases encountered during the elective period, providing an assessment, a management plan, recommended follow-up, and references;
   6. Complete a full history and physical exam or perform a study of a family; and
Learning Methods

In general, the student will learn through observation, participation, discussion and reading or research activities.

Evaluation

A. The preceptor will submit, on a form provided, an appraisal of the student’s medical knowledge, history-taking skills, physical exam skills, problem solving abilities, patient management skills, procedural skills, patient relationships, professional relationships, documentation skills, reliability, progress, and overall competence.
B. The student will submit, on a form provided, an appraisal of the effectiveness of the preceptor and the elective in general.

Departmental requirements to be submitted to the Department of Family Medicine one week after the end of the elective in order for credit to be given:
1. Student evaluation of selective (One form)

From the Preceptor: Evaluation of student performance (will be done electronically)
Grade: Pass/Fail

Prerequisites

The student must be at the fourth year level and must have satisfactorily completed the third year clerkship in Family Medicine.

Specific Contact Info:
Juanita Griffin, Medical Education Manager, juanita.griffin@wright.edu

This Course is identical to: FMD 824

Last Dept. Review Date: 12/12/2018
Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Full Spectrum Family Medicine

Time & Location

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Clinical Elective

Non-Surgical Elective

Capacity: Min 1 Max 1 Drop/Add Days: 30

Full-block.

Course Director(s) & Faculty

Courtney Stroble, MD, Director
Anna Squibb, MD
James Tytko, MD
Farhan Rafi, MD

Course Description

The student will participate in the daily practice of medicine with the preceptor, including evening hours and after-hour call activities, where applicable. The experience may include exposure to all or part of the following elements, depending on the specific components of the selected Family Practice: ambulatory care, in-patient care, obstetrical care, newborn care, rural medicine, sports medicine and extended geriatric care. Student involvement is expected to be comprehensive, but will be determined by the preceptor in conjunction with the student. Student ambition, interest, experience, and capabilities will ultimately influence the level of involvement. Overall, the experience should expose the student to the full impact of private practice

Course Content & Objectives

A. The student will become more familiar with the field of Family Medicine and the professional/personal life of a family physician. The student will:
   1. Appreciate the scope, demands, and rewards of Family Medicine;
   2. Identify various family physician roles, such as health care provider, community leader, educator, practice manager, and health care resource coordinator;
   3. Appreciate the breadth of health care services provided by the family practitioner;
   4. be able to engage in a philosophical discussion of Family Medicine.

B. The student will further his/her understanding of the day-to-day functions of a family practice office. The student will:
   1. Evaluate office management procedures and problem-oriented medical records;
   2. Appraise the need for and appropriateness of continuing medical education opportunities available to family practitioners; and
   3. Observe the care and services provided by all members of the medical office.

C. The student will correlate his/her academic experience with practice. The student will:
   1. Apply history and physical examination skills;
   2. Perform/assist with diagnostic or therapeutic procedures, as deemed appropriate
   3. Participate in activities outside of the ambulatory setting, such as hospital rounds, home visits, emergency calls, and community medicine activities;
   4. Attend medical society activities as well as local continuing medical education programs;

Wright State University Boonshoft School of Medicine
5. Study patient cases encountered during the elective period, providing an assessment, a management plan, recommended follow-up, and references;
6. Complete a full history and physical exam or perform a study of a family

Learning Methods

In general, the student will learn through observation, participation, discussion and reading or research activities.

Evaluation

a. Student's histories and physicals will be reviewed by the preceptor for completeness, proper use of terms, and ability to convey to preceptor the nature of the patient's problem.
b. The student will be observed performing procedures, interacting and counseling patients with critique and feedback provided by preceptors and behavioralist.
c. Prior to patient discharge, student will present to preceptor his/her desires for appropriate discharge instructions and follow-up for the patient.
d. Student will be provided an evaluation according to the criteria established by Wright State University Boonshoft School of Medicine.
e. Grade: Pass/Fail

Departmental requirements to be submitted to the Department of Family Medicine one week after the end of the elective in order for credit to be given: 1. Student evaluation of selective (One form)

Prerequisites

The student must be at the fourth year level and must have satisfactorily completed the third year clerkship in Family Medicine.

FMD 825  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Sub-Internship in Family Medicine

Only Open to WSU Students

1 student per Block
Soin Family Medicine 2145 N Fairfield Rd., 100
Beavercreek, OH

Clinical Elective  Non-Surgical Elective  Capacity: Min 1  Max 1  Drop/Add Days: 30

Course Director(s) & Faculty

Courtney Stroble, MD, Director
Anna Squibb, MD
James Tytko, MD
Farhan Rafi, MD

Course Description  Counts as a Sub-Internship

The student will function as a sub-intern under the direct supervision of the clinical Chief Resident and the faculty. S/He will participate in the admission and management of inpatients as well as outpatients, including newborns with our Soin Family Medicine Team.

Course Content & Objectives

Objectives

a. Improve ability to perform a comprehensive history and physical examination.
b. Utilize history, physical examination and appropriate ancillary tests to develop adequate differential diagnosis.
c. Evaluate, organize and verbally present patient data in a logical and coherent fashion.
d. Develop appropriate referral, consultation and utilization patterns of allied health professionals and facilities.
e. Arrange for effective discharge planning and appropriate follow-up.
f. Develop an appreciation and understanding for methods of patient education including written materials and audiovisual aids. These are incorporated into the treatment regimen to reinforce the patient’s understanding of his/her disease and the need for his/her cooperation in the treatment plan.

Learning Methods

a. Direct involvement in daily patient care on the Family Practice inpatient service under supervision of the faculty and resident staff
b. Management of ambulatory patients one half day a week under supervision of the faculty and resident staff
c. Participation in bedside and teaching rounds, lectures, and didactics. The student will be expected to follow patients that they have admitted or are assigned, attend daily bedside teaching rounds, and weekly resident didactic sessions on Wednesday afternoons. Student will take overnight call; not to exceed one night per week. Student will prepare and present a 20-30 minute presentation to be given at the last Wednesday didactic session for the whole residency. The topic will be determined based on the topic theme of the didactics for that month or on a particularly interesting patient care issue encountered during the month.
d. Assigned reading. There will be a Sub-I reading list provided before the rotation.
e. Assigned presentation: The student will prepare and present to residents and faculty a talk on a clinical subject of his/her choice. This will be done during the last week of the rotation during residents’
didactic afternoon.

Evaluation

a. Student's histories and physicals will be reviewed by the preceptor for completeness, proper use of terms, and ability to convey to preceptor the nature of the patient's problem.
b. The student will be observed performing procedures, interacting and counseling patients with critique and feedback provided by preceptors and behavioralist.
c. Prior to patient discharge, student will present to preceptor his/her desires for appropriate discharge instructions and follow-up for the patient.
d. Student will be provided an evaluation according to the criteria established by Wright State University Boonshoft School of Medicine.
e. Grade: Pass/Fail

Departmental requirements to be submitted to the Department of Family Medicine one week after the end of the elective in order for credit to be given: 1. Student evaluation of selective (One form)

Prerequisites

The student must be at the fourth year level and must have satisfactorily completed the third year clerkship in Family Medicine.

Specific Contact Info:

Juanita Griffin, Student Coordinator, juanita.griffin@wright.edu

FMD 826 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Academic Medicine - Family Medicine

Full-block.

Course Director(s) & Faculty

John Donnelly, MD
Deanne Otto, Ph.D.
Katharine Conway, M.D.

Course Description

Medical education depends upon residents to be teachers of medical students; however prior to entering residency, little formal education exists regarding teaching skills. This elective will help prepare students for their future teaching role. Under the supervision of experienced educators, students will begin teaching junior medical students. While there will be a formal curriculum that includes instructional design principles, giving formative feedback, and techniques of clinical “bedside” teaching, students will conduct teaching experiences in a variety of settings. These settings may include, but are not limited to interviewing and physical exam sessions in ICM, TBL sessions in courses and/or clerkships, or other small group teaching. Additionally, students may assist in the development of on-line tutorials, new educational materials, assessment activities and integrative sessions. Students will work primarily with one course director and outline an individualized elective, beginning with the creation of their own specific educational objectives for this elective.

Course Content & Objectives

Participants in this elective will be able to:
1. Describe basic principles of significant learning and instructional design.
2. Develop educational objectives for their own specific learning goals.
3. Utilize the principles of giving effective feedback through introduction to clinical medicine or other clinical supervisory experiences.

Students may be involved in a variety of teaching experiences, including but not limited to:
1. Small group leaders for ICM interviewing sessions
2. Preceptors for ICM Physical Examination sessions
3. Lead ICM-2 case discussions
4. Develop and/or assist in TBL’s pre-clinically and/or clinically
5. Develop educational materials for on-line tutorials or other technology driven modalities
6. Facilitate small group teaching activities
7. Assist in the development of assessment activities, possibly including writing USMLE style questions, OSCE cases and other self-assessment modules
8. Provide direct observational teaching and feedback on clinical clerkships

Learning Methods

Reading assignments
Formal and Informal discussion
Objective Standardized Teaching Experiences (OSTEs)
Participation as an educator, who both gives feedback, as well as receives feedback

Evaluation
Students are expected to attend all class sessions and complete all assignments, based on their own personalized learning objectives. Evaluation will be based on participation, effort, and the quality of completed assignments. Students will be expected to self-assess their teaching. Additionally, faculty who will generate written and/or verbal feedback will critique student work.

Grading is Pass/Fail

Prerequisites
Completion of M3 Clerkships

Specific Contact Info:
Dr. John Donnelly, john.donnelly@wright.edu
Juanita Griffin, Medical Education Manager, juanita.griffin@wright.edu

FMD 880  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Clinical Geriatrics

**Time & Location**

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4 weeks. Lead time for drop/add: 30 days.

Wright State Physicians - ambulatory care clinic.
Widows Home of Dayton - long term care.
Home visits in the community.
Didactics at Dept of Geriatrics - Research Park Office.

**Course Elective**

**Non-Surgical Elective**

**Capacity:** Min 1 Max 1 **Drop/Add Days:** 30

---

**Full-block.**

**Course Director(s) & Faculty**

Daniel Swagerty M.D., MPH, Professor and Chair, BSOM Department of Geriatrics
Phone: 208-6359
Fax: 208-3096 Email: daniel.swagerty@wright.edu

Physicians: Drs. Lawhorne, Swedlund, Swagerty, Bedrossian (Department of Geriatrics)
Nurse practitioners: Kelsey Drasga (Geriatric Nurse Practitioner)

**Course Description**

This 4-week experience consists of outpatient geriatric assessment and primary care with faculty members at the WSP Clinical Office Bldg with geriatricians and geriatric nurse practitioners, and long term care experience at Widows Home of Dayton. The student is expected to attend Thursday afternoon didactics, as well.

Model Schedule (which might vary):
- **Monday AM/PM:** Long term care at Widows Home of Dayton (Dr. Bedrossian/Swagerty)
- **Tuesday AM/PM:** WSP Primary Care Geriatrics Clinic (Dr. Swedlund)
- **Wednesday AM/PM:** Outpatient Clinic Wright State Physicians (Dr. Lawhorne)
- **Thursday AM:** Home visits (Dr. Swedlund) or WSP Geriatric Assessment Clinic (Dr. Swagerty)
- **Thursday PM:** Didactics at Research Park Office (Geriatrics Faculty and IDT)
- **Friday AM/PM:** WSP Primary Care Geriatrics Clinic (Dr. Swedlund)

**Course Content & Objectives**

- **Knowledge.** The student will be able to list and discuss the most common biopsychosocial conditions affecting functional status and quality of life for older adults.
- **Attitudes.** The student will be able to appreciate that each older adult has his/her own set of values that must be taken into account when making decisions about health care and when proposing diagnostic studies and therapeutic interventions.

- **Skills.** The student will be able to conduct a systematic assessment of an older person with a complex set of medical and neuropsychiatric conditions, analyze an older person’s medication list, and revise the list to optimize benefit and minimize risk.

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**Learning Methods**

Wright State University Boonshoft School of Medicine

[https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf](https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf)
• Precepting and mentoring during patient care activities
• Teaching rounds
• Didactic sessions, including scheduled conferences for geriatrics fellows, IM and FM resident physicians, grand rounds, etc.
• Assigned web modules
• Assigned articles focusing on geriatric syndromes

Evaluation
• Knowledge. Acceptable performance on MCQs in the Geriatric Review Syllabus published by the American Geriatrics Society.
• Attitudes. Faculty observations of student’s interaction with older adults and their families to determine that the student is able to appreciate that each older adult has his/her own set of values that must be taken into account when making decisions about health care and when proposing diagnostic studies and therapeutic interventions.
• Skills. The student’s ability to:
  (1) conduct a systematic assessment of an older person with a complex set of medical and neuropsychiatric conditions will be measured by using a check list during direct faculty observations and review of clinical notes created by the student and
  (2) analyze an older person’s medication list and revise the list to optimize benefit and minimize risk will be measured by discussions with faculty while precepting patient care activities.
• The course director will complete the WSU-BSOM evaluation form for clinical electives. Grading will be Pass/Fail

Prerequisites
Successful completion of Family Medicine and Internal Medicine Clerkships.

Specific Contact Info:
Jaycee Burgess, Supervisor of Educational Programs, jaycee.burgess@wright.edu

GER 801 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 12/12/2018
Clinical Cardiology

**Time & Location**

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4 week duration at Department of Veterans Affairs Medical Center, Dayton

Lead time required to DROP/ADD elective - 2 months

**Clinical Elective**

**Non-Surgical Elective**

**Capacity:** Min 1 Max 2 Drop/Add Days: 60

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**Course Description**

Clinical approach to diagnosis and management of common cardiovascular problems such as chest pain, congestive heart failure, arrhythmias, preoperative assessment, syncope or dizziness, etc. will be emphasized. Bedside evaluation as well as laboratory (noninvasive and invasive) techniques will be discussed and demonstrated.

The student will participate in all cardiovascular consultations under close supervision by residents and cardiology fellows and staff. Each student will be under direct close supervision by a cardiology fellow. S/He will also participate in daily electrocardiographic interpretations under supervision by the cardiac fellow and staff. The student will also be encouraged to participate in interpretation of echocardiograms, stress tests, Holter recordings. S/He will participate in a Cardiology conference every Tuesday from 12 Noon – 1:00 p.m. at the VAMC.

**Course Content & Objectives**

- a. Student will acquire considerable familiarity with diagnosis and management of common cardiovascular problems encountered in daily practice.
- b. Bedside skills in cardiovascular diagnosis will be augmented.
- c. S/He should be able to outline a meaningful plan of investigation and management for common cardiovascular problems.
- d. S/He will be oriented to various laboratory methods of cardiovascular investigation such as stress testing, Holter monitoring, echocardiography, coronary angiography, etc.

**Learning Methods**

- a. Patient demonstrations
- b. Bedside discussions, self-study
- c. Participate in all patient care and teaching activities of the Cardiology Section
- d. Weekly Cardiology Clinic and bi-monthly Pacemaker Clinic, weekly consult clinic
- e. Supervised EKG interpretation

**Evaluation**

Pass/Fail based on:

- a. Feedback from Cardiology fellows and staff physicians and
- b. Formal evaluation of students by fellows and staff in approach to cardiovascular consultations during the rotation

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**Full-block.**

**Course Director(s) & Faculty**

Ajay Agarwal, M.D. and Christiana Adesanya, M.D.

Course Director: Vaskar Mukerji, MD

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Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
a. Satisfactory completion of Year III
b. Patient contact and familiarity with basic techniques of interviewing and physical diagnosis
c. Knowledge of basic cardiovascular anatomy and physiology
d. Familiarity with electrocardiogram (normal and gross abnormalities)

Specific Contact Info:
Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

MED 807  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
Clinical Pulmonary Disease

**Time & Location**

- Lead time required to DROP/ADD elective - 2 months

**Clinical Elective**

- Non-Surgical Elective

**Capacity:** Min 1  Max 1  Drop/Add Days: 60

**Full-block.**

**Course Director(s) & Faculty**

- James Murphy, M.D., FCCP, Director
- Thomas Donnelly, M.D., FCCP
- Randall Fulchiero, M.D., FCCP
- Dharmesh Gandhi, M.D., FCCP
- M. Mazen Dallal, M.D., FCCP
- Bipin Sarodia, M.D., FCCP
- Steven Chambers, M.D., FCCP
- Pinto Sinha, M.D., FCCP

**Course Description**

The student will be exposed to the spectrum of clinical problems encountered by the Pulmonary Internist and participate in the evaluation and management of these problems.

**Course Content & Objectives**

- Performance of history and physical exam with special emphasis on respiratory problems.
- Evaluation of the normal and abnormal chest x-ray including differential diagnosis of specific common patterns such as solitary pulmonary nodule, cavitary lung disease, etc.
- Indications for various diagnostic procedures in pulmonary medicine.
- Clinical pharmacology of bronchodilators, aerosols, O2.
- Evaluation of pulmonary function tests.
- Outpatient care of chronic lung disease.

**Learning Methods**

- Daily office and case discussions
- Observations of diagnostic procedures
- Completion of planned reading assignments.
- Pulmonary Conference at Miami Valley Hospital- Noon Every Tuesday of the month at MVH, 6NW #1

**Evaluation**

- Clinical performance including participation in case discussion.
- Oral or written examination at end of elective.
- Grade: Pass/Fail

**Prerequisites**

- Internal Medicine Clerkship

**Specific Contact Info:**

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
MED 808

Last Dept. Review Date: 12/12/2018

Last Catalog Modification: 1/2/2019

This Course is identical to:

MED 808
# Medical Oncology/Hematology

**Time & Location**

| Miami Valley Hospital, 4 weeks duration. |
|---|---|

- **Lead time required to DROP/ADD elective - 2 months**

**Course Description**

The student will have the opportunity to take medical histories and examine patients with a wide variety of neoplastic and hematologic diseases. Positive physical findings involving nearly all organ systems are common in this group of patients, and the student should utilize this experience to sharpen diagnostic skills for application in all areas of medicine. In addition, s/he will have the opportunity to acquire an understanding of the fundamental principles of diagnosis, staging, and treatment planning for patients with neoplastic and hematologic diseases.

**Course Content & Objectives**

The student will:

- **be familiar with the evaluation of patients with common hematologic problems such as anemia, granulocytopenia or granulocytosis, thrombocytopenia, and abnormalities of coagulation;**

- **have a basic understanding of common oncologic problems, which should include an understanding of the pattern of spread and principles of staging;**

- **be familiar with evaluation and treatment of oncologic emergencies;**

- **become familiar with laboratory tests applicable to this area;**

- **review bone marrow pathology with the attending or hematologist;**

- **have a general understanding of the roles of tumor supression genes and oncogenes in the development of neoplasia;** and

- **basic understanding of radiation therapy (1-2 days of the month).**

**Learning Methods**

- **The student will take histories and perform physical examinations on patients.**

- **S/He will also write progress notes, write orders under supervision, observe, and perform procedures (under supervision).**

- **Patients will be selected to provide the student with a spectrum of clinical problems. Those disorders which are most common will be most emphasized. Multi-system clinical problems will be seen, and basic internal medicine aspects of cases, in addition to the subspecialty aspects, will be emphasized.**

- **The student will attend tumor board and may present cases. S/He will also attend other teaching conferences and resident rounds.**

- **The student will receive an orientation to the "support services" offered to patients and families of patients and families of patients with terminal illness, and should come to deal with the ethical, legal, and medical aspects of death and dying.**

- **The student will attend morning conferences Monday/Wednesday/Friday with faculty and residents.**
Evaluation
Major evaluation will be an on-going evaluation by the faculty.
Grade: Pass/Fail

Prerequisites
Satisfactory completion of the third year curriculum

Specific Contact Info:
Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

MED 813  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
**Medical Hematology/Oncology**  

**MED 815**

**Time & Location**  
VA Medical Center, 4 weeks duration.  
Lead time required to DROP/ADD elective - 2 months

**Clinical Elective**  
**Non-Surgical Elective**  

**Capacity:** Min 1  Max 1  Drop/Add Days: 60

**Course Director(s) & Faculty**

Leonard Horwitz M.D., Internal Medicine, Course Director  
Geetika Kumar M.D., Associate Professor, Internal Medicine, Course Director

**Course Description**

a. The student will see hematology/oncology consults with the hematology/oncology medical house officer assigned to the service. The student will be prepared to discuss with the medical house officer and the course directors the differential diagnosis and proposed further diagnostic or therapeutic plan.

b. The student will participate in weekly intra-departmental conferences. At the bi-weekly tumor board, the student will have an opportunity to present cases and/or didactic material as well.

c. The student will gain experience in interpretation of thin blood smears and bone marrow smears and application of these laboratory tests to clinical medical problems.

**Course Content & Objectives**

a. the anemias  
b. hemoglobinopathies  
c. leukemias, lymphomas  
d. normal and abnormal coagulation  
e. hematologic morphology  
f. interpretation of laboratory tests  
g. transfusion therapy  
h. tumor cytokinetics  
i. principles and practice of chemotherapy  

**Learning Methods**

a. bedside learning as part of the patient care team on the hematology/oncology service and in the hematology clinic  
b. preparation of weekly discussion for intra-departmental conference  
c. selected references of current literature.

**Evaluation**

Pass/Fail - Based on course director’s assessment of the performance at the bedside, in the laboratory, and in the conferences.

**Prerequisites**

Wright State University Boonshoft School of Medicine  
https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Successful completion of Year III Clerkships

Specific Contact Info:
Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

MED 815  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
Clinical Nephrology

**Time & Location**

4 weeks at the Veterans Administration Medical Center. Contact Hours - 3-5 hours per day.

**Clinical Elective**

**Non-Surgical Elective**

**Capacity:** Min 1  Max 1  Drop/Add Days: 30

**Full-block.**

**Course Director(s) & Faculty**

Dr. Jayson Yap, Course Director

**Course Description**

Knowledge and basic understanding of Nephrology with the emphasis on its clinical application. The student will be exposed to the management of multiple nephrologic disorders including acute and chronic renal failure, glomerulonephritides, renal stones, acid-base and electrolytes disorders, hypertension, urinary tract infections, and diabetic nephropathy. S/He will be exposed to the dialytic therapies including hemodialysis, hemofiltration and Chronic Ambulatory Peritoneal Dialysis. In the renal clinic and the hospital wards, the student will be expected to become well versed with the art of taking renal history, do urinalysis, read blood gases and interpret serum electrolytes. In addition, s/he will be exposed to the current research projects conducted in the Nephrology Section depending upon the time available, length of rotation and clinical workload.

**Course Content & Objectives**

The student will:

a. do urinalyses during the rotation with the attending.

b. read and interpret blood gases under supervision.

c. perform a proper nephrologic history and do a thorough physical examination.

d. correctly interpret serum electrolytes and other pertinent laboratory values and their diagnostic significance.

e. understand and be expected to conduct a proper workup of nephrologic disorders like hematuria and proteinuria.

f. be exposed to patients with acute renal failure. S/He will be expected to form a rational approach to the diagnosis and critical use of urinary indices and participate in the proper management of these patients.

g. be able to recognize the indications for initiation of dialysis, the difference and advantages/disadvantages of peritoneal dialysis versus hemodialysis, and be exposed to management of renal transplant patients.

h. be able to understand workup and management of patients with chronic renal failure.

i. be able to understand workup and management of patients with hypertension.

j. be exposed to diagnosis and management of a wide spectrum of nephrologic disorders including analgesic nephropathy, diabetic nephropathy, glomerulo- nephritis, and nephrotic syndrome in the renal clinic.

k. be exposed to many other variations of renal problems seen in usual nephrology consult service in the hospital.

**Learning Methods**

a. Conferences between faculty and students.

b. Consults with written workup of patients.

c. Reading assignments.

d. Bed-side discussion of patients and diagnostic methodology.

e. Informal discussion with the attending covering core-curriculum in nephrology several times per week.

f. Exposure to Uroradiology (I.V.P., Ultrasound, CT scan of kidneys. and observation of kidney biopsy).

Wright State University Boonshoft School of Medi

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
g. Preparation and examination of urinary sediments.
h. Literature search on one topic of clinical significance during the rotation.
i. In addition, the student will be expected to participate in some of the many nephrology activities including monthly dialysis group meetings, nutritional assessment of dialysis patients and research meetings.

**Evaluation**

Participation during teaching rounds, feedback information and question and answer sessions, and quality of workup of clinical problems. Grade: Pass/Fail

**Specific Contact Info:**

Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

**MED 819**

Last Dept. Review Date: 12/12/2018  
Last Catalog Modification: 1/2/2019
Full-block.

Course Director(s) & Faculty
Dr. Eduafo, Director
Dr. Natallia Maroz, Director, MVH South
Dr. Dhingra, Associate Director
Dr. Siva Ambalavanan

Course Description
Knowledge of Nephrology complemented by additional exposure to the general practice of Nephrology. This involves contact and observation of the Management of Chronic Renal Failure, Acute and Chronic Hemodialysis, Peritoneal Dialysis, and Transplantation. Also the student will be exposed to multiple renal problems in a variety of patients.

Course Content & Objectives
a. The student will be able to recognize the need and timing for initiation of chronic hemodialysis. S/He will observe the clinical problems of patients on chronic maintenance hemodialysis.
b. S/He will have exposure and understanding, through observing patients with acute renal failure, and the proper management of these patients.
c. There will be opportunity for exposure to renal transplantation.
d. Management refinements in patients with hypertension will be learned.
e. Exposure to other aspects of Internal Medicine as they occur in individual patients on the service.

Learning Methods
a. Dialogue between faculty and student
b. Demonstration of dialysis equipment
c. Reading assignments
d. Rounds in the hospital setting
e. Exposure to renal biopsy slides and urinalysis
f. Instruction of proper nephrology history-taking and examination.

Evaluation
a. Participation during teaching rounds and attending evaluation.
b. Grade: Pass/Fail

Prerequisites
Completion of Year III

Specific Contact Info:
Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

This Course is identical to:  MED 872

MED 827  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
Sub-Internship in Internal Medicine

Time & Location

<table>
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<th>Non-Surgical Elective</th>
<th>Capacity: Min 1 Max 4</th>
<th>Drop/Add Days: 60</th>
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4 weeks. Please refer to course description below for locations.

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No days off granted for interviews.

Lead time required to DROP/ADD elective - 2 months.

Full-block.

Course Director(s) & Faculty

VAMC Ankur Gupta, MD, MBBS
MVH Irina Overman, M.D.
KMC John Shrader, M.D.
SH: John Shrader, M.D.

Course Description

Counts as a Sub-Internship

The senior student will be assigned to the Veterans Administration Medical Center, Miami Valley Hospital or Kettering Medical Center. An effort will be made to accommodate students who have a specific choice of a hospital, but priority will be given to a distribution that will provide the student with an optimal educational experience. S/He will be assigned to a staff general internal medicine service team consisting of a faculty attending, R1 (intern), R2 (junior assistant resident) or R3 (senior assistant resident) and usually a third-year core clerk or two. The sub-intern (Sub-I) will work as an integral part of the team in the modified capacity of an RI (intern) and will alternate patients with the R1.

Under direct supervision of the assistant resident, the Sub-I will perform the patient's initial complete history and physical examination, formulate a differential and working diagnosis, develop a plan of management including all aspects of patient evaluation, therapy, and care.

The Sub-I will:

- Write the patient's orders with the supervision of the resident who will review and countersign the orders.
- Write daily progress notes and maintain an up-to-date problem list.
- Present all assigned patients to the faculty attending on rounds as well as at conferences to which the patient is to be presented.
- Perform appropriate diagnostic procedures in the presence of the resident or attending.
- Attend the Department of Medicine conferences, as required.
- Take call with the Senior Resident to whom s/he is assigned.

The Sub-I may dictate a discharge summary on assigned patients, and will provide the principal care for assigned patients.

Course Content & Objectives

On completion, the Sub-I will have:

- Provided first line care to patients with a variety of diseases requiring hospitalization;
- Further honed his/her skills in history taking and physical examination;
- Increased his/her breadth and depth of knowledge in internal medicine and the pathophysiology of disease;
- Developed his/her ability in differential diagnosis;
- Learned to appropriately order cost-effective laboratory and diagnostic tests and how to interpret and use the results.

Wright State University Boonshoft School of Medicine
f. Improved his/her ability to interpret common x-rays, EKG's and other diagnostic tests;
g. Learned to write precise orders for the care and management of hospitalized patients; and
h. Developed a more effective method for continuing self education.

Learning Methods
a. First line care for assigned patients
b. Daily work rounds with the resident teams
c. Regular attending faculty rounds
d. Morning report
e. Department of Medicine conferences
f. Professor's Rounds
g. On call with his/her resident
h. In-depth reading (text and journal. on all assigned patients.

Evaluation
Based on H&P, orders, progress notes and case presentations. Evaluations will be by the attending and resident. Grade will be Pass/Fail.

Prerequisites
Successful completion of third year.

Specific Contact Info:
Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

MED 829  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
**Time & Location**

Miami Valley Hospital, 4 weeks duration.
Lead time required to DROP/ADD elective - 2 months

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**Course Director(s) & Faculty**

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<th>James Murphy, M.D., FCCP, Director</th>
<th>Randall Fulchiero, M.D., FCCP</th>
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<tr>
<td>Biped Sarodia, M.D., FCCP</td>
<td>Mazen Dallal, M.D., FCCP</td>
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<td>Gnan Thakore, M.D., FCCP</td>
<td>Thomas Donnelly, M.D., FCCP</td>
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<td>Steven Chambers, M.D., FCCP</td>
<td>Dharmesh Gandhi, M.D., FCCP</td>
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<td>Pinto Sinha, M.D., FCCP</td>
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**Course Description**  
Counts as a Sub-Internship

The student will participate in the evaluation and care of patients in the Intensive Care Unit. Diagnostic categories included will be respiratory failure, acute renal failure, sepsis, shock, electrolyte disorders, and post-operative complications. Emphasis will be placed on mechanical ventilatory support, hemodynamic monitoring, nutritional support, fluid therapy, and medicolegal aspects of critical care medicine.

**Course Content & Objectives**

The student will acquire knowledge relating to critical illness and the evaluation and treatment of multisystem failure. S/He will assist with and develop skills in intravenous and central venous catheter placement, arterial line insertion, pulmonary artery catheter insertion, and endotracheal intubation. Indications for and complications of these procedures will be discussed, with performance of the procedure when possible.

**Learning Methods**

a. Work as a member of the critical care team. S/He will participate in initial evaluation of patients and will write daily progress notes and orders under the supervision of the attending physician and/or resident on the service.

b. Work rounds from 8:30-9:30 a.m., and teaching rounds from 9:30-11:30 a.m. There will be a lecture from 11:30 a.m. -12:30 p.m., 3 days per week, the remainder of the time being spent on procedures, evaluation of new patients, follow-up of current patients, or library reading. A reading list will be provided at the beginning of the rotation. Self-learning computer modules will also be available.

c. Option to present an informal seminar on a topic of his/her choice near the end of the rotation.

d. Attend all teaching activities and conferences in the Department of Medicine. The student will take at least 4 night calls with the resident on the service.

**Evaluation**

The student will be evaluated throughout the rotation by the attending physician. Assessment will be based on ability to collect historical and physical data, clarity of presentation, and development of skills and knowledge. A written, take-home examination will also be used to assess the student’s performance. A Pass/Fail system will be utilized.

**Prerequisites**

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Satisfactory completion of third year curriculum.

Specific Contact Info:
Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

MED 837  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
Critical Care Medicine Sub-I

**Time & Location**

- **Clinical Elective**: Monday-Saturday, 4 weeks at the Veterans Administration Medical Center.
- **Non-Surgical Elective**: Monday-Saturday, 4 weeks at the Veterans Administration Medical Center.
- **Lead time to DROP/ADD elective**: 2 months
- **Drop/Add Days**: 60

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**Course Description**

**Counts as a Sub-Internship**

The student will participate as an active member of the Critical Care Team assigned to the Medical Intensive Care unit (MICU) at the VA Medical Center. The student will function at a Sub-Intern level and assume direct care of the assigned patients under supervision of the Senior Resident and the MICU attending physician. The student will be exposed to and expected to learn the basic information about the pathophysiology, pharmacology and technology associated with the care of his/her patient and the critically ill in general. ICU teams consist of an Attending physician, two Senior Residents, ICU nurses and a clinical pharmacist. Expectations include daily rounds on assigned patients, case discussions with attending physician, and follow up on diagnostic test and writing daily notes. Students are encouraged to attend daily afternoon conferences and Resident forums on Tuesdays.

**Course Content & Objectives**

- a. The diagnosis and management of acute cardiac, respiratory, renal, fluid and electrolyte and nutritional problems.
- b. Principles of arterial blood gas, acid-base data interpretation, their application to renal failure and mechanical ventilation.
- c. Interpretive and technical aspects of hemodynamic monitoring.
- d. Toxicology

Recommended books for reference:

- c. Additional educational material will be provided by the Attending Physician.

**Learning Methods**

- a. Emphasis will be placed on participation in work and teaching rounds in the unit.
- b. Patient care, including case presentations at the bedside, will be performed under supervision.
- c. The student will be expected to attend X-ray rounds, read and discuss assigned topics and participate in mini-conferences using both the medical literature and audio-visual modules.
- d. There will be the opportunity to observe the work and skills of the Critical Care nursing staff.
- e. The student will have the opportunity to attend and participate in Medical Service conferences.
Evaluation
Day-by-day clinical performance will be monitored by the Resident and Attending Staff. There will be an intake conference and exit evaluation with the Attending Physician. Grade: Pass/Fail.

Prerequisites
Internal Medicine Clerkship

Specific Contact Info:
Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu
Adult Infectious Diseases

MED 839

**Time & Location**

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4 weeks at Miami Valley Hospital or Dayton Veterans Affairs Medical Center.

Lead time required to DROP/ADD elective - 2 months

**Clinical Elective**

**Non-Surgical Elective**

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**Course Director(s) & Faculty**

J. Czachor, M.D Director, MVH
S. Burdette, M.D. MVH
T. Herchline, M.D. MVH
H. Polenakovik, M.D., VAMC
R. Simon, M.D., MVH
L. Castellino, M.C., VAMC
C. Bacheller, M.D., VAMC/KMC
S. Patel, M.D., VAMC/KMC

**Course Description**

The student will participate as a member of the infectious disease team (attending, resident and student) at one of the institutions listed.

**Course Content & Objectives**

The goal of the elective is to familiarize the student with the most important syndromes in infectious diseases of adults, and to assist the student to develop a rational approach to the prevention, diagnosis, and treatment of infectious diseases. Clinical aspects of infectious diseases will be emphasized as will the rational use of antibiotics. The most relevant epidemiologic, pathophysiologic diagnostic, and therapeutic aspects will be reviewed. The student will learn to maximally utilize clinical microbiology laboratory resources.

**Learning Methods**

Student:

a. Is expected to read from any appropriate resource for Infectious Disease.
b. Will be responsible for the collection and generation of data based on consultation patients assigned to them.
c. Will participate in daily teaching rounds with the assigned attending.
d. Will participate in the Infectious Diseases Conferences.
e. May attend a variety of clinics.
f. Will present a topic during the final week of the elective.

**Evaluation**

The student will be evaluated at the end of the elective: Pass/Fail. The evaluation will be based on the student's performance during the month.

**Prerequisites**

Successful completion of Year III

**Specific Contact Info:**

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Only Open to WSU Students

Intro: Ambulatory ID Refugees and Immigrants

Half-block.

Only Open to WSU Students

Only Open to WSU Students

Longitudinal rotation for two weeks credit (80 hours). Case conference and journal club via the Division of Infectious Diseases will be one hour each.

Locations: Equitas Health and Public Health Dayton & Montgomery County Tuberculosis Clinic

Maximum 4 students

Drop/Add: 30 days

Clinical Elective Non-Surgical Elective Capacity: Min 1 Max 2 Drop/Add Days: 30

Half-block.

Course Director(s) & Faculty

Thomas E. Herchline, M.D., Director

Course Description

This course will provide outpatient experiences in infectious disease with a focus on HIV, and refugee/immigrant health. Will attend clinics at Equitas Health and PHDMC, which focus on HIV and refugee/immigrant care. Also, will attend case conference and journal club for Division of Infectious Diseases. Faculty will also provide literature and discussion on global health and the health of refugee populations.

Course Content & Objectives

Specific behavioral objectives should be listed in terms of what the student will be able to do at the end of the elective, including cognitive knowledge, attitudes, and skills.

1. Identify common infections in refugee population of Montgomery county
2. Learn appropriate treatments for infections common in refugee population
3. Become more culturally competent and sensitive
4. Increase experience with communicating through translators
5. Identify problems and possible solutions for immigrant and refugee populations

Learning Methods

(a) See patients in clinics at Equitas Health and PHDMC with direct supervision from Faculty
(b) Develop differential diagnoses, treatment plans, and diagnostic plans for each patient
(c) Participate in the Division of Infectious Disease monthly case conference and journal club
(d) Read recent literature on global and refugee health, and discuss with Faculty

Evaluation

The preceptor will complete the appropriate WSU-BSOM fourth-year elective evaluation form. Grade is Pass/Fail.

Prerequisites

Completion of 3rd year clerkships.

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Only Open to WSU Students

Infectious Disease

MED 863

Time & Location

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4-week rotation, Mount Carmel Medical Center, Columbus, Ohio
Lead time to DROP/ADD - 2 months

MUST COMPLETE SEPARATE APPLICATION WITH MT CARMEL. STUDENT ENROLLMENT MUST BE APPROVED BY MT. CARMEL.

Clinical Elective  Non-Surgical Elective  Capacity: Min 1  Max 1  Drop/Add Days: 60

Full-block.

Course Director(s) & Faculty

Mark Herbert, M.D.
Ruth Mullowney-Agra, M.D.

Course Description

To learn skills in diagnosis and treatment of the patients with an infectious disease.

Course Content & Objectives

Students will recognize and care for patients with a wide variety of infectious diseases. Management of infectious disease admissions and consults will be the cornerstone of the rotation. The student will gain skill in diagnosis procedures, interpretations of culture results, antibiotic usage, and antibiotic serum-level monitoring. In all cases, the student will actively participate in learning.

Learning Methods

Texts and Department of Medicine conferences, daily teaching rounds.

Evaluation

The student will be graded on his/her initiative, patient work-ups, presentations, knowledge and clinical judgement, and patient and professional relationships. Grade: Pass/Fail.

Prerequisites

Completion of all major rotations or special permission. A house office must be assigned on service during the student's rotation.

Specific Contact Info:

Rebecca Nance, Mt. Carmel Student Coordinator, rnance@mcha.com

MED 863  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf

Wright State University Boonshoft School of Medi
Only Open to WSU Students

General Medicine Inpatient Sub-I

**MED 866**

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**Clinical Elective**  
Non-Surgical Elective  

**Capacity:** Min 1  
Max 1  
**Drop/Add Days:** 60

**Full-block.**

**Course Director(s) & Faculty**

John Weiss, M.D.  
Binay Eapen, M.D.

**Course Description**  
Counts as a Sub-Internship

Students will experience a clinical inpatient rotation similar to that of a PG-1. They will be considered acting PG-1s and will have in-house night call similar to that of the PG-1s. They will have primary care responsibility, including initial evaluation, order writing, ongoing care, discharge planning, and communication with other primary care physicians and referring physicians. They will have active involvement with procedures deemed appropriate by the service house staff and attending. In all cases, students will actively participate in learning.

**Course Content & Objectives**

Students will function as a sub-intern on clinic general medicine service and will see a wide variety of general internal medicine patients.

**Learning Methods**

Washington Manual, Harrison's, Cecil's, and journals, as pertinent. Daily Department of Medicine conferences appropriate for this clinical rotation. Daily teaching rounds.

**Evaluation**

Grade determined by a departmental evaluation committee after review of evaluations and comments. Students evaluate course and attending physician using standard forms. Grade: Pass/Fail.

**Prerequisites**

Completion of all major rotations.

**Specific Contact Info:**

Rebecca Nance, Mt. Carmel Student Coordinator, rnance@mcha.com

**Last Dept. Review Date:** 12/12/2018  
**Last Catalog Modification:** 12/12/2018
**Only Open to WSU Students**

**Medical Intensive Care Unit Sub-I**

**Time & Location**

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4-week rotation, Mount Carmel Medical Center, Columbus, Ohio

Lead time to DROP/ADD - 2 months

MUST COMPLETE SEPARATE APPLICATION WITH MT CARMEL. STUDENT ENROLLMENT MUST BE APPROVED BY MT. CARMEL.

**Clinical Elective**

**Non-Surgical Elective**

**Capacity:** Min 1  Max 1  Drop/Add Days: 60

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**Full-block.**

**Course Director(s) & Faculty**

David Ralston, M.D.

**Course Description**  **Counts as a Sub-Internship**

To gain experience similar to that of a PG-1 in the care of critically ill medical inpatients.

**Course Content & Objectives**

Students have primary responsibility for their patients, including initial evaluation, order writing, on-going care, discharge planning, and communication with other physicians. They have in-house night call similar to that of a PG-1, and are actively involved with procedures as deemed appropriate by the house staff and attending. In all cases, students will actively participate in learning.

**Learning Methods**

Daily bedside teaching supplemented by a formal didactic program covering core topics in critical care. Didactic sessions include brief lectures followed by instructional quizzes. Reference/reading materials: major medicine texts. Students attend Department of Medicine conferences, and daily teaching rounds. A collection of preselected articles is the basis of the core reading requirement and is given to each student.

**Evaluation**

The grade is determined by a departmental evaluation committee after review of evaluations and comments. Grade: Pass/Fail.

**Prerequisites**

Completion of all major rotations or special permission.

**Specific Contact Info:**

Rebecca Nance, Mt. Carmel Student Coordinator, rnance@mcha.com

MED 867  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Nephrology

MED 868

Time & Location

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4-week rotation, Mount Carmel Medical Center, Columbus, Ohio

Lead time to DROP/ADD - 2 months

MUST COMPLETE SEPARATE APPLICATION WITH MT CARMEL. STUDENT ENROLLMENT MUST BE APPROVED BY MT. CARMEL.

Clinical Elective  Non-Surgical Elective  Capacity: Min 1  Max 1  Drop/Add Days: 60

Full-block.

Course Director(s) & Faculty

Raj Venkataraman, M.D.
C. R Ramaswamy, M.D.
Kevin O’Reilly M.D.
Paul Kovach M.D.
Dean Agra, M.D.

Course Description

To learn skills in the diagnosis and treatment of patients with renal disease process.

Course Content & Objectives

The student will recognize and care for patients with a wide variety of renal disorders. Management of renal admissions and consults will be the cornerstone of the rotation. The student will gain skill in understanding renal physiology and complex acid base disturbances as well as comprehensive fluid and electrolyte balance. In all cases, students will actively participate in learning.

Learning Methods

Texts, Department of Medicine conferences, daily teaching rounds.

Evaluation

The student will be graded on his/her initiative, patient work-ups, presentations, knowledge and clinical judgement, and patient and professional relationships. Grade: Pass/Fail.

Prerequisites

Completion of all major rotations or special permission. A house officer must be assigned on service during the student’s rotation.

Specific Contact Info:

Rebecca Nance, Mt. Carmel Student Coordinator, rnance@mcha.com

MED 868  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Course Description
The student will participate as a member of the infectious disease team (attending, fellow, resident and student) at the institutions listed.

Course Content & Objectives
The goal of the elective is to familiarize the student with the most important syndromes in infectious diseases of adults, and to assist the student in developing a rational approach to the prevention, diagnosis and treatment of infectious diseases. Clinical aspects of infectious diseases will be emphasized as will the rational use of antibiotics. The most relevant epidemiologic, pathophysiologic diagnostic, and therapeutic aspects will be reviewed. The student will learn to maximally utilize clinical microbiology laboratory resources.

Learning Methods
The student:

a) is expected to read from any appropriate resource for Infectious Diseases.
b) will be responsible for the collection and generation of data based on consultation patients assigned to them
c) a core series of articles will be given to the student at the beginning of the rotation.
d) will participate in daily teaching rounds with assigned attending
e) will participate in the Infectious Diseases Conferences during the usual course of the selective
f) may attend a variety of clinics
g) will present on an infectious diseases topic of their choice at the end of their elective

Evaluation
The student will be evaluated at the end of the elective: Pass/Fail. The evaluation will be based on the student’s performance.

Prerequisites
Successful completion of Year III.

Specific Contact Info:
Melissa McCartan, Student Coordinator, mccartan.9@wright.edu

This Course is identical to: MED 871

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Introduction to Clinical Nephrology

**MED 872**

**Time & Location**

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2 weeks at the Veterans Administration Medical Center. Contact Hours - 3-5 hours per day.
Lead time required to DROP/ADD elective - 1 month

**Capacity:** Min 1  Max 1  Drop/Add Days: 30

**Course Description**

**Course Director(s) & Faculty**

Mohammad Saklayen, M.D.

**Course Content & Objectives**

The student will:

a. do urinalyses during the rotation with the attending.

b. read and interpret blood gases under supervision.

c. be expected to perform a proper nephrologic history and do a thorough physical examination.

d. be expected to correctly interpret serum electrolytes and other pertinent laboratory values and their diagnostic significance.

e. understand and be expected to conduct a proper workup of nephrologic disorders like hematuria and proteinuria.

f. be exposed to patients with acute renal failure. S/He will be expected to form a rational approach to the diagnosis and critical use of urinary indices and participate in the proper management of these patients.

g. be able to recognize the indications for initiation of dialysis. Student will understand the difference and advantages/disadvantages of peritoneal dialysis versus hemodialysis. The student will also be exposed to management of renal transplant patients.

h. be able to understand workup and management of patients with chronic renal failure.

i. be able to understand workup and management of patients with hypertension.

j. be exposed to diagnosis and management of a wide spectrum of nephrologic disorders including analgesic nephropathy, diabetic nephropathy, glomerulo- nephritis, and nephrotic syndrome in the renal clinic.

k. be exposed to many other variations of renal problems seen in usual nephrology consult service in the hospital.

**Learning Methods**

a. Conferences between faculty and students.

b. Consults with written workup of patients.

c. Reading assignments.

d. Bed-side discussion of patients and diagnostic methodology.

e. Informal discussion with the attending on nephrologic topic covering core-curriculum in nephrology several times per week.

f. Exposure to Uroradiology (I.V.P., Ultrasound, CT scan of kidneys) and observation of kidney biopsy, whenever possible.

g. Preparation and examination of urinary sediments.

h. Literature search on one topic of clinical significance during the rotation.
Evaluation

a. Participation during teaching rounds.
b. Feedback information and question and answer sessions.
c. Quality of workup of clinical problems.
d. Grade: Pass/Fail

Specific Contact Info:
Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

This Course is identical to: MED 827

MED 872 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 1/2/2019

i. In addition, the student will be expected to participate in some of the many nephrology activities including monthly dialysis group meetings, nutritional assessment of dialysis patients and research meetings.
Dayton VA Hospice Inpatient and Outpatient Care

**Time & Location**

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**Half-block.**

**Course Director(s) & Faculty**

Geetika Kumar M.B.B.S
Assistant Professor (WSU-BSOM)
Administrative Medical Director
Palliative Medicine Program Director
Staff Medical Oncologist
Dayton VA Medical Center

Kathleen Hayes R.N
Hospice Coordinator
Dayton VA Medical Center

Damanjeet Kahlon, M.D.
Loveleen Bain, M.D.
Clinical Medical Directors
Dayton VA Medical Center

**Course Description**

This course is designed to acquaint the student with all aspects of hospice and palliative care. Medical students will be involved in the management of patients in the inpatient unit. They will participate actively in interdisciplinary team management of patients and will experience the hospice holistic approach to care at end of life, including family issues, psychosocial and ethical concerns. They will have the opportunity to visit Hospice of Dayton during the rotation for 1-2 days. They will also follow patients with the Palliative Medicine Fellows in the outpatient clinic. A clinical work week schedule is typically 8-4:30, Monday-Friday.

**Course Objectives:**

a) Review the history, philosophy, and principles of hospice and palliative care, the interdisciplinary team approach to patient management, and the ethical issues involved in end-of-life care.

b) Identify the patient eligible for hospice, the admission/referral guidelines, and holistic management, including integration of palliative chemotherapy and radiation as appropriate.

c) Discuss hospice pain management, including basic knowledge of opioid and nonopioid pharmacology, co analgesics, and adjuvant drugs in the treatment of patients with end-stage disease.

d) Understand spiritual and psychosocial suffering experienced by patients and families dealing with terminal illness and the appropriate interventions for treatment.

e) Experience physician involvement in patient care at end of life, with emphasis on developing one's interpersonal skills.
communication skills, concern, and empathy to support the patient and family.

**Course Content & Objectives**

a) History, philosophy, and current status of hospice and palliative care in the United States and globally, Implications of hospice and palliative care services in an integrated medical system.
b) Recognizing end-stage disease and hospice eligibility
c) Appropriate use of palliative radiation and chemotherapy.
d) Management of hospice patients in Palliative Care Clinic, in extended care CLC unit, or admitted to the inpatient hospice unit.
e) Interdisciplinary team dynamics and the concept of hospice holistic care.
f) Psychosocial and spiritual aspects of end-of-life care.
g) Ethical and legal ramifications of palliative care.
h) Complex pain and symptom management at end-of-life, including the pharmacology of opioid and nonopioid analgesia.
i) Interpersonal skills for physicians to help them counsel, support, and companion patients at end of life
j) The role of the physician in end of life care

**Evaluation**

Students will keep a journal of their activities on the rotation. Students will record their observations of particular patients, the care given, and the outcome. They will be expected to record their impressions and evaluation of patients based on spiritual, psychosocial, and physical aspects of the patients clinical presentation. Students will be expected to include assessment of their own feelings and reactions to end-of-life care. The journal will be used as a tool in evaluating students’ achievement on the rotation. The medical directors’ observations of the students’ performance, particularly with regard to meeting the course objectives, will be also used to evaluate the students.

They will be required to attend once weekly core conferences on palliative care topics and are expected to present a case based palliative care topic during this rotation.

Grading: Pass/Fail.

**Prerequisites**

None

**Specific Contact Info:**

Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

MED 873 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 1/2/2019
Only Open to WSU Students

Rural Swaziland Experience  

**Course Director(s) & Faculty**

*Dr. Harry VanderWal, Jr. M.D., Chief Medical Officer*

Associate Faculty, Boonshoft School of Medicine, Wright State University

Executive Director, The Luke Commission

Internal Medicine/Pediatrics Residency, Wright State University School of Medicine (2006)

Current Board Certifications: Internal Medicine and Pediatrics

**Course Description**

In this course, the student will be exposed to the complex realities of health care provision in the developing world. The student will directly observe physicians in institutional and para-institutional settings in Swaziland, gaining insight into the management of a wide variety of patient presentations, from critically ill or injured to those with less acute problems.

Daily activities will vary based on each location, and will require flexibility on the part of the student. While participating with The Luke Commission comprehensive healthcare, mobile outreach clinics, the student will observe and assist with patient triage, diagnosis and treatment, minor surgical procedures, mobile laboratory procedures, mobile x-ray, as determined by the course director. At fixed health facilities, the student will complete daily rounds with physicians in departments determined by the student and approved by the course director. The student will also spend additional time in the Outpatient or Emergency Departments, or at the Manzini base of The Luke Commission.

**Course Content & Objectives**

This elective will expose the student to the realities of health care in the developing world. The issues to which the student will be introduced include but are not limited to:

- a. HIV/AIDS and TB pandemic in Swaziland
  - 1. HIV/AIDS and TB pathologies and treatments
  - 2. Opportunistic Infections
  - 3. Social complexities concerning HIV/AIDS and TB and its treatment
- b. Infectious disease
- c. Malnutrition
- d. Discrepancies in health care between urban and rural populations

The student will gain experience in a variety of skills and knowledge areas as a result of this elective course. This experience includes, but is not limited to:

- a. Procedural skills
- b. Interpersonal clinic skills

[Full-block.]

**Time & Location**

4-week blocks. The student will attend scheduled mobile outreach clinics with The Luke Commission in rural Swaziland. The student will rotate through the various departments at fixed health facilities in Swaziland as scheduled by TLC.

Contact department coordinator for availability and permission to add.

Drop/Add: 60 days

**Clinical Elective**

Non-Surgical Elective  

**Capacity:** Min 4  Max 4  Drop/Add Days: 60
Learning Methods

A. Direct observation and participation in mobile comprehensive outreach activities with course director and TLC personnel.
B. Direct observation of patient care by staff physicians while completing rounds at fixed medical facilities in Swaziland.
C. Review of lab work and/or radiology studies with TLC personnel of The Luke Commission or hospital physicians.
D. Performance of triage (including the taking of vital signs and performance of rapid HIV testing) assisting in minor surgical procedures, phlebotomy, mobile laboratory and mobile x-ray procedures at rural medical outreach clinics with The Luke Commission.

Evaluation

A. Evaluation of the student
   1. Observation of student’s engagement by Harry VanderWal, Jr., M.D., Executive Director of The Luke Commission.
   2. Observation of the student’s engagement by staff physicians at other fixed medical facilities in Swaziland.
   3. Completion of Preceptor Evaluation of Student Performance
   4. Mandatory attendance per schedule as decided by course director.

B. Evaluation of the elective

The student will submit an appraisal of the elective and any suggestions to improve the course.

Prerequisites

Completion of M3 Clerkships and Completion of Health Care in Developing Countries elective in B1

Specific Contact Info:

Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

Swaziland Student Coordinators:
Rebekah Sartori, rebekah.sartori@lukecommission.org
Brian Schmelzenbach, brian.lukecommission.org
Missi Schmelzenback, mkschmelz@lukecommission.org

MED 874 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 1/2/2019
Course Director(s) & Faculty

Dr. Irina Overman, M.D. Course Director

Course Description

Medical education depends upon residents to be teachers of medical students; however prior to entering residency, little formal education exists regarding teaching skills. This elective will help prepare students for their future teaching role. Under the supervision of experienced educators, students will begin teaching junior medical students. While there will be a formal curriculum that includes instructional design principles, giving formative feedback, and techniques of clinical “bedside” teaching, students will conduct teaching experiences in a variety of settings. These settings may include, but are not limited to interviewing and physical exam sessions in ICM, TBL sessions in courses and/or clerkships, or other small group teaching. Additionally, students may assist in the development of on-line tutorials, new educational materials, assessment activities and integrative sessions. Students will work primarily with one course director and outline an individualized elective, beginning with the creation of their own specific educational objectives for this elective.

Course Content & Objectives

Participants in this elective will be able to:
1. Describe basic principles of significant learning and instructional design.
2. Develop educational objectives for their own specific learning goals.
3. Utilize the principles of giving effective feedback through introduction to clinical medicine or other clinical supervisory experiences.

Students may be involved in a variety of teaching experiences, including but not limited to:
1. Small group leaders for ICM interviewing sessions
2. Preceptors for ICM Physical Examination sessions
3. Lead ICM-2 case discussions
4. Develop and/or assist in TBL’s pre-clinically and/or clinically
5. Develop educational materials for on-line tutorials or other technology driven modalities
6. Facilitate small group teaching activities
7. Assist in the development of assessment activities, possibly including writing USMLE style questions, OSCE cases and other self-assessment modules
8. Provide direct observational teaching and feedback on clinical clerkships

Depending on the nature of the individualized elective plan, a final product (i.e., on-line tutorial) may also be required.

Learning Methods

Wright State University Boonshoft School of Medicine
Evaluation

Students are expected to attend all class sessions and complete all assignments, based on their own personalized learning objectives. Evaluation will be based on participation, effort, and the quality of completed assignments. Students will be expected to self-assess their teaching. Additionally, faculty who will generate written and/or verbal feedback will critique student work.

Grading is Pass/Fail

Prerequisites

Completion of M3 Clerkships

Specific Contact Info:

Dr. Irina Overman, irina.vasiliu@wright.edu
Melissa McCartan, BSOM Student Coordinator, mccartan.9@wright.edu

MED 880 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 1/2/2019
Sleep Disorders

NRL 803

Course Director(s) & Faculty

Dr. Sarah Hussain
Dr. Kevin Carter

Course Description

The student will be exposed to the diagnosis, evaluation and treatment of common sleep disorders including insomnia, sleep apnea, narcolepsy, etc.

Course Content & Objectives

a. Observe and assist in the evaluation of sleep disorders.
b. Be familiar with the criteria of common sleep disorders.
c. Observe a polysomnographic study.
d. Understand medical and psycho-social complications of sleep disorders and hypnotic drugs.
e. Be familiar with treatment including hypnotic drug use and abuse.

Learning Methods

a. Supervision by staff and sleep technologists
b. Observation of patient interview and work-ups
c. Reading assignment.

Evaluation

Student will be evaluated and provided feedback on an ongoing basis. Grade will be Pass/Fail.

Prerequisites

Completion of Year III.

Specific Contact Info:

Melissa McCartan, Student Coordinator, mccartan.9@wright.edu

NRL 803  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
Introduction to Neurointerventional Surgery

**Course Director(s) & Faculty**

Bryan Ludwig, M.D., Co-Director  
John B. Terry, M.D., Co-Director  
Esteban Cheng-Ching, M.D., Co-Director

**Course Description**

The student will be introduced to the practice of Neurointerventional Surgery that uses minimally invasive procedures to treat cerebrovascular disease. Emphasis will be placed on allowing the student hands-on experience in the angiography suite, clinical exposure to the pre- and post-operative care in the Neurocritical Care Unit, and outpatient consultation in our Neurointerventional Specialty clinic.

This elective does not count as surgical credit.

**Course Content & Objectives**

The student finishing this course will be able to discuss or perform the following:

- a) Neurological emergencies – cause and management  
- b) Stroke care – both acute and post stroke Neurocritical Care  
- c) Neurological considerations in the treatment of medical patients  
- d) Neurointerventional treatment modalities and theory  
- e) Neurological evaluation of a patient  
- f) Interpretation of common Neurological imaging: CT and MRI  
- g) Appropriate referral patterns to the Neurointerventional Surgery professional

**Learning Methods**

- a) Lectures and conferences  
- b) Hands-on experience assisting in the Angiography suite  
- c) In-patient rounds  
- d) Out-patient clinic  
- e) Selected review of literature

**Evaluation**

- a) Observation of the student in the clinical setting  
- b) Documenting a history and physical on a clinical patient with a brief oral presentation related to natural history of the patient's diagnosis  
- c) Grade: Pass/Fail  
- d) Completion of a brief presentation on a topic specific to Neurointerventional Surgery. If presentation is not completed,
failing grade would be considered unless acceptable explanation could be provided.

**Prerequisites**

Completion of the 3rd year. Completion of Neurology Clerkship is suggested but not required.

**Specific Contact Info:**

Melissa McCartan, Student Coordinator, mccartan.9@wright.edu

NRL 804  

Last Dept. Review Date: 12/12/2018  
Last Catalog Modification: 12/12/2018
Introduction to Vascular and Critical Care Neurology

NRL 805

Time & Location

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<td>2-week rotation, Miami Valley Hospital. Minimal contact time will be 40 hours per week. Office located at 30 E. Apple St., Suite 6257</td>
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Course Director(s) & Faculty

- John B. Terry, M.D., Director
- Ahmed Fathy, M.D.
- Gnan Thakore, M.D.
- Kiran Poudel, M.D.
- M. Sohel Ahmed, M.D.
- Nivedita Mankotia, M.D.

Course Description

The student will be introduced to the practice of vascular and critical care neurology. This patient population includes neurologic, neurosurgical and neurointerventional patients that require critical care support. The student will observe important pathophysiologic processes including cerebral blood flow alterations, intracranial pressure dynamics, cerebrospinal fluid circulation disturbances, seizure activity, hemodynamic and ventilatory abnormalities, and the therapeutic approaches to these problems will be reviewed. The student will have a wide exposure to patients both in the ICU and step down units with opportunities to observe and participate in critical care procedures will be available.

Course Content & Objectives

The student finishing this course will be able to discuss or perform the following:

a) Neurological emergencies - cause and management  
b) Stroke care – both acute and post stroke Neurocritical Care.  
c) Neurological considerations in the treatment of medical patients  
d) Cause of increased intracranial pressure and treatment strategies.  
e) Neurological evaluation of a patient  
g) Interpretation of common Neurological imaging: CT and MRI  
h) Appropriate referral patterns to the Neurointensivist.

Learning Methods

a) Lectures and conferences  
b) Hands-on experience assisting in the Neurocritical Care Unit and step down unit.  
c) In-patient rounds  
d) Selected review of literature

Evaluation

a) Observation of the student in the clinical setting  
b) Documenting a history and physical on a clinical patient with a brief oral presentation related to natural history of the patient’s diagnosis.

Wright State University Boonshoft School of Medicine
c) Grade: Pass/Fail

Prerequisites
Completion of the 3rd year. Completion of Neurology Clerkship is suggested but not required.

Specific Contact Info:
Melissa McCartan, Student Coordinator, mccartan.9@wright.edu

NRL 805  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Introduction to Child Neurology

**Time & Location**

2-week rotation, Dayton Children’s Medical Center, One Children’s Plaza, Dayton, OH. Monday - Friday, 8:30 a.m. - 4 p.m. Minimal contact time will be 40 hours per week.

**Clinical Elective**

**Non-Surgical Elective**

**Capacity: Min 1 Max 1**

Drop/Add Days: 30

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**Course Director(s) & Faculty**

Gogi Kumar, M.D., Director

Faculty:
Daniel Lacey, M.D.
Gogi Kumar, M.D.
Pyar Noorani, M.D.
Shilpi Kumar, M.D.
Mahesh Chikkannaiah, M.D.
Debbie Sturm (Senior EEG technologist)

**Course Description**

The student will be introduced to the practice of Child Neurology with special focus on epilepsy. The student will spend time in the Child Neurology Outpatient Clinic, the Inpatient Child Neurology Service, the EEG lab and, optionally, Neuroradiology. The student would be introduced to common Pediatric Neurology conditions like epilepsy, headache as well as less common conditions. Time will also be spent observing the recording and the interpretation of EEGs both routine and in the EMU. Some time could also be spent on Neuroradiology.

**Course Content & Objectives**

The student finishing this course will be able to discuss or perform the following:

a) Epilepsy: Etiologies and approach to management,
b) EEG: Indications, types and basic interpretation
c) Headache: Etiologies and approach to management.
d) Neurological examination of children
e) Introductory knowledge of other neurological conditions
g) Basic interpretation of common neurological imaging: CT and MRI
h) Basic knowledge of neurological emergencies in children

**Learning Methods**

a) Outpatient exposure to common conditions in neurology
b) EEG lab, observation and interpretation
c) Inpatient rounds
d) Didactic lectures
e) Selected review of literature

**Evaluation**

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
a) Observation of the student in the clinical setting
b) Documentation of the history and physical exam on a patient with a brief oral presentation related to natural history of the patient’s diagnosis.
c) A report of the experience
d) Grade: pass/Fail

Prerequisites
Completion of the 3rd year. Completion of Neurology Clerkship is suggested but not required.

Specific Contact Info:
Melissa McCartan, Student Coordinator, mccartan.9@wright.edu

NRL 806 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 12/12/2018
**Only Open to WSU Students**

**Introduction to Neurosurgery**

**Time & Location**

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2 week elective at Miami Valley Hospital and/or Miami Valley South

Maximum 2 students per block

Drop/Add: 30 days

**Capacity:**

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**Course Director(s) & Faculty**

- Dr. Ania Pollack - co-director
- Dr. Peter LeTarte
- Dr. Daniel Gaudin

**Course Description**

The goals of this experience are to work as a team, develop clinical skills, patient management strategies, in-depth understanding of patients assigned, basic operative skills and be able to articulate differential diagnosis and treatment options. This elective is designed to give the student maximum opportunity to see **inpatients** and **outpatients** with neurosurgical problems and to have a correlation with neuroanatomy, neurophysiology and neuropathology. A major portion of the time will be patient care oriented with specific subject-oriented assignments in the basic neurological sciences. Students are expected to round, participate in operative cases, follow their operative patients, evaluate patients in clinic and present a case at Wednesday conference. Students are strictly limited to PGY-1 Duty Hours.

**Course Content & Objectives**

Medical Knowledge: Know about common neurosurgery conditions and their basic management; including epidural and subdural hematomas, neurological trauma, management of stroke and aneurysmal subarachnoid hemorrhage, evaluation of tumors, back and neck pain, movement disorders, epilepsy and hydrocephalus among others.

Patient Care: Gather the important information that is needed for the Neurosurgery history and complete a history for the patients they follow. Complete pertinent physical examinations for the evaluation of back pain, neck pain, subarachnoid hemorrhage, tumor, trauma, and altered mental status (or coma), among other conditions in the inpatient and outpatient setting. The student should demonstrate the ability to perform pertinent physical examinations while being observed by at least one attending.

Professionalism: Demonstrate professional responsibility in working as a team member with other members of the Neurosurgery care team, patients and families.

Interpersonal Communication: Demonstrate ability in interacting with clinical and support staff in an effective manner.

Practice-based Learning: Identify personal areas of self improvement and develop skills for lifelong learning.

System-based practice: Understand how neurosurgical care is delivered in the context of the healthcare system; including the interface with physical therapists, social workers, care coordinators and other medical/surgical services.

Career/context: Know the training/career pathway for neurosurgery attending.

**Learning Methods**

1. Outpatient clinic
2. Inpatient rounds

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Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
3. Experience assisting and observing in the neurosurgical suite
4. Wednesday morning conference, Spine conference, Tumor board, Epilepsy conference
5. Selected review of literature

**Evaluation**
1. Observation of the student in the clinical setting (inpatient and outpatient)
2. Documenting pertinent physical examinations
3. Presentation of a topic of interest on Wednesday Conference
4. Pre- and Post-Rotation oral evaluation of common neurosurgical conditions

**Prerequisites**
Successful completion of surgery clerkship
Students who have completed at least two weeks of Neurology clerkship will be strongly considered.

**Specific Contact Info:**
Melissa McCartan, Student Coordinator, mccartan.9@wright.edu

Wright State University Boonshoft School of Medicine

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Only Open to WSU Students

Sub-Internship in Neurology

Course Director(s) & Faculty
Cassandra Milling, M.D., Neurology Clerkship Course Director

Course Description
Counts as a Sub-Internship
The MS4 student Sub-Intern will be assigned to the Inpatient General Neurology Admitting Service at Miami Valley Hospital. The team will typically consist of an Attending physician, Senior (R3 or 4) resident, junior resident (R2 or R1) and 1-2 medical students. The Sub-Intern will function in a modified capacity similar to that of a junior neurology resident. They will take calls with their senior resident when the resident is on call. Call work hours will not exceed the 24+4 resident work hour limitation.

The activities of the Sub-Intern will be directly supervised by the senior resident and attending physician. The Sub-Intern will participate in all aspects of their patient’s evaluation and care including the performance or completion of:
1. History and physical examination, neurologic localization, formulation of differential diagnosis and treatment plan on all newly admitted patients under their care.
2. Patient orders under supervision of the senior resident to review and countersign.
3. Daily progress notes with an up-to-date assessment and plan for all patients under their care.
4. Performance of appropriate diagnostic procedures under the supervision of their resident or attending.
5. Patient presentations on attending rounds and during conferences as indicated for patients under their care.
6. Attendance at all Department of Neurology conferences, including morning report, Noon Conferences, Clinical Neuroscience Case conference, and Grand Rounds.
7. Participation in overnight and weekend call with their Senior Resident.

Course Content & Objectives
Upon completion of this Sub-internship the student will be able to:
1. Obtain a complete and appropriate history from patient’s presenting with common, acute neurologic complaints in the inpatient setting.
2. Perform and accurately interpret a general neurologic exam, including the neurologic exam in a patient with altered mental status.
3. Perform basic neurologic localization based upon patient history and physical examination in order to formulate an adequate and appropriate differential diagnosis for patient’s presenting with common, acute neurologic diseases.
4. Formulate an appropriate patient evaluation based on the differential diagnosis when common neurologic diseases are being considered.
5. Develop an initial plan of care based upon #1-4.
6. Gain fluency in the presentation of inpatient neurology patients during team work rounds and teaching rounds with improved attention to key historical, physical examination and laboratory findings.
7. Interpret common inpatient findings in basic diagnostic tests in Neurology including: LP, Head CT, Brain and Spine
MRI, EEG and EMG/NCS.
8. Effectively utilize the medical literature in order to guide evidence-based evaluation and treatment.
9. Effectively chart progress notes, histories and physicals and patient orders for cosigning within the electronic medical record.

Learning Methods
1. Patient Care in the context of overnight call, daily work rounds and attending rounds. Students will learn to manage/navigate the common medical and psychosocial challenges inherent in the care of neurological patients with new and/or chronic neurological disabilities and disease. Students will learn to do so in the context of the multidisciplinary healthcare team caring for the patient.
2. Daily House Staff Work Rounds: Students will present patients, discuss management and participate in patient care decisions
3. Daily Attending Teaching rounds: Students will present patients, discuss management and present literature reviews or articles as appropriate to their patients.
4. Resident teaching conferences: Daily noon didactic conferences led by faculty and residents.
5. Case conference: Fridays, case-based teaching conference presented by residents or students to faculty residents or students. The sub-intern will likely be asked to present at this conference.
6. Clinical Neuroscience Case conference: every Wednesday at 7am

Evaluation
1. Attending Physicians and Residents will evaluate the student via observation in the clinical setting with special attention to the course objectives listed above. The attending physician will complete the BSOM Year 4 elective evaluation.
2. Grade: Pass/Fail

Prerequisites
Successful completion of all 3rd year core clerkships

Specific Contact Info:
Melissa McCartan, Student Coordinator, mccartan.9@wright.edu

NRL 809 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 12/12/2018
**Only Open to WSU Students**

**Introduction to Outpatient Adult Neurology**  
NRL 819

### Time & Location

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Site assignments (Dayton VA Medical Center, WPAFB, Miami Valley Hospital, Atrium Medical Center, and private offices) will be determined by the course coordinator.

**Clinical Elective**  
**Non-Surgical Elective**  
**Capacity:** Min 1  Max 1  Drop/Add Days: 30

### Course Description

Students will participate in the predominantly outpatient clinical experience. The bulk of the student’s time will be spent in patient contact under the direction of his/her preceptor. The student will perform and record H&P’s with emphasis on mastery of the neurological examination and neurologic localization in order to appropriately diagnose and form a treatment plan. They will be expected to present patients, generate differential diagnoses and formulate plans under the supervision of the attending physician. Attendance at conferences, case write-ups, and online learning modules will be required.

### Evaluation

Pass/Fail; Grade will be based on the preceptor’s evaluation, quizzes and NBME exam.

### Prerequisites

Completion of third year clerkships.

### Specific Contact Info:

Melissa McCartan, Student Coordinator, mccartan.9@wright.edu

**This Course is identical to:**  
NRL 819  
NRL 891

**Last Dept. Review Date:** 12/12/2018  
**Last Catalog Modification:** 12/12/2018

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https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Only Open to WSU Students

Academic Medicine - Neurology

REQUIRES PRIOR APPROVAL FROM COURSE DIRECTOR TO BE ENROLLED.

PROJECT PLAN MUST BE IN THE WORKS WITH DIRECTOR OR THEIR DESIGNEE PRIOR TO APPROVAL.

Course cannot be ranked during online scheduling process- will be manually added to schedule by Student Affairs.x

Non-Clinical Elective Non-Surgical Elective Capacity: Min 1 Max 2 Drop/Add Days: 30

Full-block.

Course Director(s) & Faculty

Dr. Cassandra Milling

Course Description

Medical education depends upon residents to be teachers of medical students; however prior to entering residency, little formal education exists regarding teaching skills. This elective will help prepare students for their future teaching role. Under the supervision of experienced educators, students will begin teaching junior medical students. While there will be a formal curriculum that includes instructional design principles, giving formative feedback, and techniques of clinical "bedside" teaching, students will conduct teaching experiences in a variety of settings. These settings may include, but are not limited to interviewing and physical exam sessions in ICM, TBL sessions in courses and/or clerkships, or other small group teaching. Additionally, students may assist in the development of on-line tutorials, new educational materials, assessment activities and integrative sessions. Students will work primarily with one course director and outline an individualized elective, beginning with the creation of their own specific educational objectives for this elective.

Course Content & Objectives

Participants in this elective will be able to:
1. Describe basic principles of significant learning and instructional design.
2. Develop educational objectives for their own specific learning goals.
3. Utilize the principles of giving effective feedback through introduction to clinical medicine or other clinical supervisory experiences.

Students may be involved in a variety of teaching experiences, including but not limited to:
1. Small group leaders for ICM interviewing sessions
2. Preceptors for ICM Physical Examination sessions
3. Lead ICM-2 case discussions
4. Develop and/or assist in TBL’s pre-clinically and/or clinically
5. Develop educational materials for on-line tutorials or other technology driven modalities
6. Facilitate small group teaching activities
7. Assist in the development of assessment activities, possibly including writing USMLE style questions, OSCE cases and other self-assessment modules
8. Provide direct observational teaching and feedback on clinical clerkships

Depending on the nature of the individualized elective plan, a final product (i.e., on-line tutorial) may also be required.

Learning Methods
Completion of M3 Clerkships

Students are expected to attend all class sessions and complete all assignments, based on their own personalized learning objectives. Evaluation will be based on participation, effort, and the quality of completed assignments. Students will be expected to self-assess their teaching. Additionally, faculty who will generate written and/or verbal feedback will critique student work.

Grading is Pass/Fail

Prerequisites

Completion of M3 Clerkships

Specific Contact Info:

Dr. Cassandra Milling, cassandra.milling@wright.edu
Melissa McCartan, Student Coordinator, mccartan.9@wright.edu

NRL 880  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Orthopaedic Surgery In Children

**Only Open to WSU Students**

Dayton’s Children’s Hospital for 4 weeks.
Lead time required to DROP/ADD elective - 1 month.

The student will be invited to participate in emergency care and procedures as they occur rather than by a rigid call schedule. The student must have an influenza vaccination prior to the start of the rotation.

**Clinical Elective**

- Monday through Friday participate in Orthopaedic Clinics, Scoliosis Clinics, Cerebral Palsy Clinics and Myelomeningocele Clinics. The student will participate in all of these clinics in so far as possible under the supervision of the attending faculty member. He will also work with the residents on ward rounds and patient assignments. History and physical examinations will be electively assigned. The student will assist in surgery and postoperative care.

- The student is invited to attend private office hours of faculty members. These have provided an excellent one on one contact and a somewhat different variety of patients. The student will be expected to attend the Resident Conferences on Friday mornings. He is also invited to attend the other resident teaching conferences and Journal Club.

**Course Description**

This elective is not designed for the student who has an interest in pursuing a residency or career in Orthopaedic Surgery.

Monday through Friday participate in Orthopaedic Clinics, Scoliosis Clinics, Cerebral Palsy Clinics and Myelomeningocele Clinics. The student will participate in all of these clinics in so far as possible under the supervision of the attending faculty member. He will also work with the residents on ward rounds and patient assignments. History and physical examinations will be electively assigned. The student will assist in surgery and postoperative care.

The student is invited to attend private office hours of faculty members. These have provided an excellent one on one contact and a somewhat different variety of patients. The student will be expected to attend the Resident Conferences on Friday mornings. He is also invited to attend the other resident teaching conferences and Journal Club.

**Course Content & Objectives**

This elective will give the student a broad exposure to children’s orthopaedic surgery including trauma. The emphasis will be on general, medical and surgical care and secondarily on the particular aspects of children's orthopaedics. The thorough musculoskeletal examination will be emphasized. The student will gain considerable experience working up selected orthopaedic patients, assisting in surgery, performing minor surgical techniques, suturing wounds and tying knots, and should become proficient at an orthopaedic and neurological examination in children.

**Learning Methods**

The student will use the assigned elective readings from the text of Lynn T. Staheli, M.D., Practice of Pediatric Orthopedics. Additional references will be assigned as desired and necessary. This elective provides considerable contact with faculty members and one on one interchange.

**Evaluation**

The student will be in close contact with the assigned faculty and residents. The student will be judged on knowledge, diligence, and ability to assume responsibility. The student will be orally tested by the faculty throughout the clerkship but not by formal testing. Grade: Pass/Fail.

**Prerequisites**

Satisfactory completion of Year III.

**Course Director(s) & Faculty**

Anil Krishnamurthy, MD, Director of Medical Education
Dr. Michael C. Albert, Faculty Site Director
Faculty - Dr. James Lehner, Dr. Jeffrey Mikutis, Dr. Alvin Jones, Dr. David Martineau, Dr. Craig Shank, and Residents

**Time & Location**

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**Capacity:**

- Min: 1
- Max: 1
- Drop/Add Days: 30

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Orthopaedic Surgery

ORS 810

Time & Location

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4 week duration at Wright State Orthopaedic Surgery Department at Miami Valley Hospital, Miami Valley Hospital South, Physician’s offices and satellite locations.

Lead time required to DROP/ADD elective: 1 month. The student must have an influenza vaccination prior to the start of the rotation. Students will be on call 2 nights a week.

Ortho interested students in block 1, 2, and 4-8

REQUIRES PRIOR APPROVAL FORM COURSE DIRECTOR TO BE ENROLLED.

Clinical Elective Surgical Elective Capacity: Min 1 Max 4 Drop/Add Days: 30

Full-block.

Course Director(s) & Faculty

Anil Krishnamurthy, MD, Director of Medical Education
Faculty - Dr. Michael Prayson, Dr. Matthew Lawless, Dr. Lehner, Dr. Indresh Venkatarayappa, Dr. Mark Kayanja, Dr. Brandon Home, Dr. Jennifer Jerele, Dr. Michael Herbenick, Dr. Joseph Rubino, and Residents

Course Description

**This course is designed for the student who has an interest in pursuing a residency or career in orthopaedic surgery.**

To give the student a broad and interactive hands-on experience with orthopaedic surgery. The student will work directly under the attendings and department residents. The majority of the clinical experience will be in general orthopaedics, hip/knee, shoulder/elbow, foot/ankle and orthopaedic sports medicine. Faculty will directly supervise the student in clinics, office hours and operating room. The student will attend resident meetings and pursue outside reading in addition to performing daily requirements while on service. Time will be available to interact with orthopaedic faculty and residents to provide a broad orthopaedic experience.

Course Content & Objectives

a. Student will learn to diagnose and treat common orthopaedic injuries including both nonoperative and operative management.

b. Understand preoperative, perioperative and postoperative care of the orthopaedic patient.

c. Establish basic surgical skills required for the orthopaedic surgeon.

d. Learn manipulative techniques for the treatment of common orthopaedic fractures and dislocations.

Learning Methods

a. Specialty clinic and office activities

b. Attend weekly orthopaedic conferences

c. Assigned readings in clinical text

d. Review terminology sheet

e. Attend surgical cases with attendings

f. Take call with residents

g. Round with residents and attendings


SUGGESTED READING: Rockwood & Green's Fractures in Adults by Rockwood & Green; Surgical Exposures in Orthopaedics: The Anatomic Approach by Stanley Hoppenfeld. Available in the MVH library.

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Successful completion of Year III.

GENERAL INFORMATION:

• Students are expected to dress professional at all times. No open-toed shoes or jeans are permitted.
• Except for earrings for females, visible body piercing including but not limited to the tongue is not permitted and must be removed when at work.
• Students rotating at Miami Valley Hospital may make rounds with the Orthopaedic resident as well as daily rounds with a preceptor at a time selected by the preceptor.
• Students should contact the Orthopaedic Resident Trauma Chief to fill any down time in their schedules. The Student Coordinator will give you the chief's name and cell number at the beginning of the rotation.
• Students will attend morning resident conferences unless in surgery with their preceptor.
• Students will proactively work with residents to take call.
• Students will take the initiative to go over the terminology sheet with a preceptor if they have any questions.
• No eating or drinking is allowed in the clinic area.
• No surfing the internet is allowed in the physician’s dictation area.
• Cell phone use will only be allowed after your daily rotation ends or during your lunch and only outside of the department.
• Do not throw coats or backpacks on chairs or counter tops in the clinic area. Students are to use the coat closet next to the break room for this purpose.
• Do not page someone and leave the area. This is very distracting for others trying to work.

The student will be graded on Pass/Fail. The importance of daily participation and advancement in learning knowledge and progress is weighed heavily. The student will be tested at both the beginning and end of the rotation to assess knowledge required. This will be incorporated in the overall evaluation.

LORs

If you are interested in getting a letter of recommendation from our clinical faculty, please give the student coordinator a complete signed cover sheet along with your CV and personal statement within the FIRST WEEK of your rotation. As a courtesy, please ask the doctor for the letter as soon as possible. Many programs want completed applications along with LORs early. Note that some programs require ALL of your supporting documentation to be submitted by October 1st.

Prerequisites

Successful completion of Year III.

Physical Examination of the Spine & Extremities by Stanley Hoppenfeld. Available in the MVH library. Department copy can be signed out with Student Coordinator but not taken out of the department.

ORS 810  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Trauma Autopsy Pathology

**Time & Location**

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- 4 week elective
- Montgomery County Coroner’s Office, 361 West Third Street, Dayton, Ohio.
- Schedule: Monday-Friday
- Lead time to DROP/ADD elective - 1 month.
- Max 1 student per block offered

**Clinical Elective**

**Non-Surgical Elective**

**Capacity:** Min 1 Max 1

**Drop/Add Days:** 30

---

**Full-block.**

**Course Director(s) & Faculty**

Robert Shott, M.D., Clinical Assistant Professor, Pathology
Montgomery County Coroner’s Office

**Course Description**

The student will function essentially as a “sub-intern” with graded increasing responsibilities for all aspects of the autopsy service. With up to 100 autopsies a month, the student will have the opportunity to observe, participate in, and perform autopsies in a wide variety of cases from pediatric to geriatric, trauma of all types, and an interesting variety of natural disease.

**Course Content & Objectives**

The student will be able to:

- a. Correlate morphologic findings at autopsy with clinical signs and symptoms and abnormal x-ray and clinical laboratory findings.
- b. Perform autopsies under the supervision and guidance of staff pathologists.
- c. Identify common patterns of injury and diseases.
- d. Discuss autopsy cases in an organized and meaningful fashion.

**Learning Methods**

- a. Detailed study of patient’s chart for autopsy with the pathologists.
- b. Gradual transition from observation to assistance to actual performance of the autopsy at a rate consistent with the student’s potential.
- c. Discuss interrelationships of the clinical and autopsy findings.
- d. Attendance at staff conferences.
- e. Self-study of selected materials.

**Evaluation**

- b. Understanding of toxicology of common medications, street drugs, and toxic substances.
- c. Recognition of common diseases from examination of gross organs.
- d. Correlation of autopsy, with clinical signs, symptoms, radiology and laboratory findings.
- e. Dr. Shott’s observations, as reflected by his completion of BSOM competency-based assessment for advanced doctoring electives.
- f. Self-evaluation by student to identify learning accomplished and ongoing learning gaps.
- g. Summative Assessment: Pass/Fail
Prerequisites
Completion of Foundations Phase and Clerkships

Specific Contact Info:
Ife Shafeek, student coordinator, ife.shafeek@wright.edu

PTH 805  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/9/2019
Only Open to WSU Students

Clinical Laboratory Medicine  Diagnostic Genetics

Time & Location

- 2 week elective
- 30 days drop/add deadline
- Max 1 student per block offered
- Location: Dayton Children's Hospital, Dayton
- APPROVAL by elective director REQUIRED

Clinical Elective  Non-Surgical Elective

<table>
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<tr>
<th>Course Director(s) &amp; Faculty</th>
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<td>J. Todd Boyd, DO; Staff Pathologist and Associate Director, Dayton Children's Hospital, Clinical Laboratories</td>
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Course Description

- Observation and participation in laboratory test procedures, including hematology, chemistry, blood bank, microbiology, cytogenetics, and molecular genetics
- Participate in microscopic interpretation of specimens for diagnostic purposes
- Reading of assigned textbooks, laboratory manuals, and primary literature as assigned by Dr. Boyd
- Review of selected patients' medical records for clinical-pathologic correlation and presentation at a case conference to medical students and BSOM faculty
- Daily one-on-one discussions with Dr. Boyd, approximately 45-90 minutes

Course Content & Objectives

- Describe the underlying principles and methodology of laboratory tests
- Recognize pre-analytic, analytic, and post-analytic sources of error in lab tests
- Apply the concepts of reference range, sensitivity, specificity, and predictive value of positive and negative results to clinical application of lab test results
- Identify and apply principles of cost-effective ordering and sequencing of lab tests
- Recognize how observation and reasoning influence the microscopic interpretation of laboratory specimens.
- Integrate knowledge obtained by reading of assignments with clinical lab hands-on experience in order to develop a rational approach to using the clinical laboratory for diagnosis and management of patients.

Learning Methods

To be explained on site

Evaluation

- Dr. Boyd’s observations, as reflected by his completion of WSU BSOM competency based assessment for advanced doctoring electives
- Dr. Boyd’s assessment and feedback for cases presented at conference.
- Self-evaluation by student to identify learning accomplished and ongoing learning gaps
- Summative Assessment: Pass/Fail

Prerequisites

Completion of Foundations Phase and Clerkships

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Ultrasound Guided Fine Needle Aspiration Cytology

Time & Location

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2 week elective

30 days drop/add deadline

Max 1 student per block offered

Location: private practice in Kettering

Clinical Elective

Non-Surgical Elective

Capacity: Min 1  Max 1  Drop/Add Days: 30

Course Director(s) & Faculty

Benjamin McCalip, MD; Clinical Assistant Professor of Pathology

Course Description

a. See patients with Dr. McCalip, 1-4 hours/day
b. Microscopic study of current and archival cases of FNA cytology
c. Participate in preparation and processing of FNA specimens
d. Study textbooks, atlases, and current literature as directed by Dr. McCalip, with one-on-one discussions about clinical applications
e. Work up selected cases for case conference to be presented to BSOM faculty and students

Course Content & Objectives

a. Identify benefits and risks of FNA procedures.
b. Describe the clinical indications for FNA.
c. Prepare aspirates for diagnostic evaluation
d. Recognize diagnostic reasoning involved in cytologic diagnosis by microscopic criteria.
e. Interpret FNA diagnostic reports appropriately for clinical decision-making, including appropriate management and follow-up.
f. Understand current terminology and diagnostic classification schemes for FNA of thyroid.
g. Utilize assigned readings and search of primary literature to develop knowledge about the utility and limitations of fine needle aspiration cytology for diagnosis of thyroid and head/neck disease.

Evaluation

1. Dr. McCalip’s observations, as reflected by his completion of BSOM competency-based assessment for advanced doctoring electives.
2. Self-evaluation by student to identify learning accomplished and ongoing learning gaps.
3. Summative Assessment: Pass/Fail

Prerequisites

Completion of Foundations Phase and Clerkships

Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/9/2019

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Only Open to WSU Students

Laboratory Diagnosis of Infectious Diseases

PTH 810

Time & Location

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2 week elective

30 days drop/add deadline

Max 1 student per block offered

Clinical Elective

Non-Surgical Elective

Capacity: Min 1  Max 1  Drop/Add Days: 30

Half-block.

Course Director(s) & Faculty

Kennon Miller, MD – Boonshoft SOM Pathology

Daniel Buxton, MD – Asst. Elective Director, Kettering Health Network, pathologist

Course Description

a. Work with medical technologists in the microbiology lab (2-3 hours/day).
b. Make and interpret gram stains.
c. Do clinical chart review in selected patients with unusual or life-threatening infectious diseases, correlating clinical findings with laboratory diagnoses. These cases will be discussed with Dr. Miller 2-3 times/week.
d. Investigate primary literature relevant to clinical cases.

e. Study Dr. Buxton’s collection of slides showing the histopathology of infectious diseases to generate differential diagnoses. Meet with him 2-3 times per week to review those slides and understand diagnostic features of organisms in tissue.

f. Study literature assignments as selected by Drs. Miller and Buxton.

Course Content & Objectives

a. Advise clinicians about optimal procurement and transport of clinical specimens to the microbiology laboratory for diagnostic purposes.
b. Make and interpret gram stains of clinical specimens.
c. Describe the processes and procedures involved in the laboratory diagnosis of infectious disease.
d. Interpret microbiology laboratory reports appropriately in the setting of clinical decision-making.

e. Interpret antibiotic sensitivity reports appropriately for clinical decision-making.
f. Recognize diagnostic features of infectious agents in tissue or cytologic specimens and interpret anatomic pathology reports appropriately for clinical decision-making.

Learning Methods

a. perform and observe laboratory procedures
b. clinical chart review with laboratory correlations
c. study of assigned literature
d. study archival cases of infectious disease in Dr. Buxton’s files
e. conferences with faculty
f. identification of primary literature relevant to cases

Evaluation

1. Dr. Miller’s observations, as reflected by his completion of BSOM competency-based assessment for advanced

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
2. Self-evaluation by student to identify learning accomplished and ongoing learning gaps.
3. Summative Assessment: Pass/Fail

Prerequisites
Completion of Foundations Phase and Clerkships

PTH 810

Last Dept. Review Date: 12/12/2018
Last Catalog Modification: 1/9/2019
Only Open to WSU Students

Introduction to Dermatopathology

Time & Location

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<td>Boonshoft School of Medicine Department of Pathology, 140 WH: Monday - Thursday</td>
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<td>10</td>
<td>Dermatopathology Laboratory of Central States, 7835 Paragon Road, Centerville: Friday</td>
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Half-block.

Clinical Elective

Non-Surgical Elective

Course Description

This elective is designed to provide an overview of the histopathologic interpretation and clinical presentation of cutaneous neoplastic and inflammatory disorders commonly encountered by a primary care physician or dermatologist.

Students are expected to preview selected skin biopsy slides every morning and generate a differential diagnosis, followed by participation in a faculty-led discussion and didactic session. The topics that will be covered include melanocytic neoplasms, epidermal tumors, cutaneous infections, and basic patterns of inflammatory dermatoses. Students are also expected to participate in dermatopathology case sign out sessions 1 day per week at a private dermatopathology laboratory emphasizing interpretation of histologic findings in a clinical context. Students will also learn about the steps involved in tissue processing.

Students will prepare a 30-minute case presentation summarizing the clinical and pathologic features of one interesting case encountered during the elective. In addition, students will attend dermatology grand rounds (once/month) and any scheduled resident dermatopathology didactic sessions (once/month) when applicable.

Course Content & Objectives

This elective will be modified to best reflect the interests and career goals of the student. On the first day of the elective the student will meet with the course director to create a personalized list of objectives. In general, this elective is designed to help students to:

1. Recognize the range of diseases encountered by a practicing dermatopathologist.
2. Provide relevant clinical information when submitting a skin biopsy for pathologic evaluation.
3. Describe techniques used in the laboratory for processing cutaneous biopsy specimens.
4. Recognize and interpret histopathologic features in a clinical context.
5. Generate a plausible differential diagnosis based on clinical presentation and histologic features.
6. Distinguish clinical and pathologic features of commonly encountered benign, premalignant, and malignant cutaneous diseases, with an emphasis on melanocytic neoplasms.
7. Define and explain the standard terminology used in a pathology report.
8. Identify ancillary diagnostic tools available to a pathologist including immunohistochemistry, tissue culture, and immunofluorescence.

Learning Methods

Students will:

1. Attend & participate in dermatopathology sign-out sessions 1 day a week.
2. Preview microscopic slides followed by discussion with the faculty.
3. Be responsible for reading assignments from a basic skin pathology textbook and power point presentations.
4. Attend any scheduled skin pathology didactic sessions and grand rounds.
5. Select an interesting case encountered during their elective and prepare a 30-minute case presentation to be delivered during the last week of the elective.

**Evaluation**

1. The student will be evaluated based on attendance and participation in pathology sign-out sessions, didactic sessions, and the final case presentation.
2. A 10-question slide based multiple-choice exam will be given during the last day of the elective to assess student learning.
3. Dr. Krishnamurthy's observations, as reflected by his completion of BSOM competency-based assessment for advanced doctoring electives.
4. Self-evaluation by student to identify learning accomplished and ongoing learning gaps.
5. Summative Assessment: Pass/Fail

**Prerequisites**

Completion of Foundations Phase and Clerkships

**Specific Contact Info:**

Ife Shafeek, student coordinator, ife.shafeek@wright.edu

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Surgical Pathology for a Surgical Residency

Paul G. Koles, MD. Chair, Dept. of Pathology. 140 White Hall, WSU campus

Course Description
In consultation with the elective director, an individualized curriculum will be designed to develop knowledge and skills most relevant to his/her anticipated specialty. However, all students will do the activities listed below:

1. Introduction to surgical pathology: Ackerman’s surgical pathology, chs. 1-2.
3. Daily readings from:
   a. Sternberg’s Diagnostic Surgical Pathology, 5th ed., 2010
   b. Primary literature
4. Study of H&E slides of normal tissues (glass and virtual microscopy)
5. Study of atlases of histopathology (Damjanov and online)
6. Study of H&E slides of abnormal tissues (glass and virtual microscopy)
7. Discussion of questions, self-generated, and preceptor-generated

Course Content & Objectives
At the conclusion of the elective, the student will be able to

1. recognize and identify normal histologic features in selected organs.
2. describe pathologic and clinical features of common non-neoplastic lesions in selected organs.
3. recognize histopathologic features and describe clinical presentations of common neoplasms in selected organs.
4. do focused literature searches to answer specific questions that arise from self-study and discussions with preceptor.
5. appreciate the collaborative relationship between surgeon and pathologist that promotes excellent patient care.

Learning Methods
1. independent reading, self-directed and preceptor-directed
2. independent study of histology and histopathology
3. interaction with preceptor, based on (1) and (2)
4. self-assessment questions

Evaluation
1. Dr. Koles’ observations, as reflected by his completion of BSOM competency-based assessment for advanced doctoring electives.
2. Self-evaluation by student to identify learning accomplished and ongoing learning gaps.
3. Summative Assessment: Pass/Fail

Prerequisites

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Specific Contact Info:
Ife Shafeek, student coordinator, ife.shafeek@wright.edu

PTH 814  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/9/2019
**Half-block.**

**Course Director(s) & Faculty**

TBD

**Course Description**

The student will spend time in clinical pathology with specific pathologist as coordinators for the various sections. One pathologist will oversee the entire rotation. In the laboratory, emphasis will be on clinicopathological correlation and involve those areas where the pathologist is most often the consultant. The student will become familiar with basic procedures. The student will be expected to participate in departmental conferences and interact with residents. Review of specific assignments will occur daily with the coordinating pathologist.

**Course Content & Objectives**

The student should be able to:

--Cytology: become familiar with basic types of specimens received, review selected patients with multiple samples, correlate with clinical findings.

--Surgical Pathology - become familiar with gross descriptions of the more common specimens; attend frozen sections; become familiar with gross room procedures such as review of previous material and different diagnosis. Attend microscopic sign-out. be able to describe basic microscopic features.

**Learning Methods**

--Learn from glass slide material in surgical pathology

--Learn gross observation skills in surgical pathology

--Learn about laboratory bench techniques and how to interpret lab data

--be given relevant reading assignments in each area

--Learn clinical correlation from chart review and laboratory data

**Evaluation**

1. New Innovations online evaluation

2. Student will choose one area of surgical pathology for a small case review. Evaluation will be based on expressed knowledge gained about this topic and light microscopic description of pathology.

3. Overall daily input will be evaluated. Consideration will be given to problem-solving abilities, degree of independent functioning and ability to apply knowledge.

**Prerequisites**

Completion of Foundations Phase and Clerkships

**Specific Contact Info:**

Ife Shafeek, student coordinator, som_pathology@wright.edu

**Last Dept. Review Date:** 12/12/2018  
**Last Catalog Modification:** 1/9/2019
Overview of Animal Research

Only Open to WSU Students

Time & Location

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Half-block.

Course Director(s) & Faculty

Director: Emily Suzanne Dudley, DVM, BSOM Research Affairs
Co-Director: Ji Bihl, M.D., Ph.D., BSOM Pharmacology & Toxicology

Course Description

Students will receive an overview of relevant information about animal research and selected mouse models. Students will complete all required training in order to enter the animal vivarium. Students will complete mouse anatomy and technique learning laboratories*, and observe advanced animal research techniques. Students will observe investigators and other medical students that utilize mouse models to study human diseases in their laboratories. (*Students who do not want to handle animals may observe all procedures instead.)

Course Content & Objectives

1. Describe the regulatory requirements and oversight of animal research in the United States.
2. Recognize and understand special considerations when using animals in research.
3. Understand how an animal facility operates including biosecurity and animal husbandry needs.
4. Review comparative anatomy of the mouse and the principles of aseptic technique in rodent surgery, learn basic handling and experimental techniques.
5. Understand how and when behavior and motor tests are used.
6. Describe drug dosing and administration, dose translation, and tissue sampling methods.
7. Recognize various animal models for human disease and how translational research benefits the medical profession.

Learning Methods

1. Didactic discussions and completion of online training over topics in course description.
2. Independent reading of relevant journal articles and regulatory guidelines.
3. Participation and/or observation of experimental techniques in mice.
4. Interaction with investigators that use animal models, including observations within laboratories.

Evaluation

1. Objective evaluations: 2 or more writing assignments on selected topics. Topics may be reviewed during meetings times or may involve independent reading.
2. Dr. Dudley's observations, as reflected by his completion of BSOM competency-based assessment for advanced doctoring electives.
3. Self-evaluation by student to identify learning accomplished and ongoing learning gaps.
4. Summative Assessment: Pass/Fail

Prerequisites

Completion of Foundations Phase and Clerkships

Specific Contact Info:

Ife Shafeek, student coordinator, som_pathology@wright.edu

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
## Full-block.

### Course Director(s) & Faculty

L. David Mirkin, MD - Department Director, Dayton Children's Hospital

### Course Description

1) Under the guidance of Dr. Mirkin, the student will accomplish learning objectives no later than 2 weeks before graduation from BSOM.

3) The student will study archival and current anatomic pathology cases as part of the research project.

4) The student will participate in selected aspects of diagnostic surgical pathology, cytopathology, autopsy, and hematopathology, at the discretion of the preceptor.

### Course Content & Objectives

1) define a specific question that can be investigated using resources of the anatomic pathology lab at DCH.

2) complete a directed literature search.

3) formulate a hypothesis that addresses the research question.

4) design a study that generates data to accept or reject the hypothesis.

5) analyze data and formulate appropriate conclusions.

6) write a manuscript summarizing the research and prepare that manuscript for publication.

### Learning Methods

1) Weekly consultation with Dr. Mirkin.

2) Use of library databases to identify relevant literature.

3) Study of textbooks in anatomic pathology.

4) Microscopic study of surgical, cytologic, and hematologic specimens.

### Evaluation

1) New Innovations online evaluation

2) Pass/Fail, based on evidence that student has completed learning objectives

### Prerequisites

Completion of Foundations Phase and Clerkships

### Specific Contact Info:

Ife Shafeek, student coordinator, ife.shafeek@wright.edu

**PTH 817**  
**Last Dept. Review Date: 2/5/2019**  
**Last Catalog Modification: 2/5/2019**

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[https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf](https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf)
Pediatric Hematology-Oncology

**Course Description**

4 weeks at Dayton Children's Hospital. Enrollment will be dependent upon faculty availability for the block requested.

- Lead time required to DROP/ADD elective - 1 month; 1 student per block
- Typical work hours will be 8:00 AM-5:00 PM, Monday-Friday.
- Influenza vaccination required for Blocks 7-13.
- Tentative to also be offered blocks 9, 11, 12, 14, and 15. TBD after mid-May

**Full-block.**

**Course Director(s) & Faculty**

Ayman El-Sheikh, M.D., Director
Mukund G. Dole, M.D.
Jordan Wright, M.D.
Members of staff of Pediatric Hematology Department

**Course Content & Objectives**

By the end of the elective, the student will be expected to:

a. List the studies indicated in the work-up of anemia, bleeding problems, lymphadenopathy, abdominal masses and various malignant processes.

b. Learn the rationale for making clinical decisions involving hematology procedures, interpretation of laboratory data, and the use of chemotherapeutic agents. Understand the multidisciplinary interactions among the oncologist and other specialists such as the surgeon, pathologist, radiologist and radiotherapist in treatment and follow-up of patients.

**Evaluation**

Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, and participation in patient oriented discussions. Final grade will be Pass/Fail.

**Prerequisites**

Completion of Year III

**Specific Contact Info:**

Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Pediatric and Adolescent Endocrinology

**Time & Location**

4 weeks duration, at Dayton Children’s Hospital.

Available capacity will be known in mid-May.

Prior to scheduling, the student is required to obtain approval through the Medical Education department at 937-641-3453.

Lead time required to DROP/ADD elective - 1 month; 1 student per block.

Typical work hours will be 8:30 AM-4:30 PM, Monday-Friday.

Influenza vaccination required for Blocks 7-13.

**Clinical Elective**

**Non-Surgical Elective**

**Capacity:** Min 1  Max 1  **Drop/Add Days:** 30

**Full-block.**

**Course Director(s) & Faculty**

Paul R. Breyer, M.D., Director
Susan P. Almazan, M.D.
Yelena Nicholoson, M.D.
Moira C. Pfeifer, M.D.
Stacy Meyer, M.D.

**Course Description**

The student will make rounds with the attending physician on inpatient consultations, participate in consultations and attend the outpatient Endocrinology and Diabetic Clinics at DCH. The student will be required to take a pre and post test to aid in their education on Endocrine topics.

**Course Content & Objectives**

a. Performance of history and physical with special emphasis on endocrine problems.

b. To become familiar with normal growth and development in children and adolescents.


d. Diagnosis and management of pituitary, thyroid, parathyroid and adrenal disorders in children.

e. Pathophysiology and treatment of Diabetic Ketoacidosis and patient management of a child with diabetes.

f. Student will become familiar with the major endocrine studies and their use in diagnosis of endocrine disorders.

**Learning Methods**

The student will:

a. see patients in Endocrine and Diabetic Clinic.

b. see endocrinology inpatients and endocrinology consultations.

c. participate in diagnostic endocrine studies.

d. meet on a one-to-one basis with the instructor to discuss assigned topics in endocrinology.

**Evaluation**

Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, participation in patient oriented discussions, and knowledge of assigned endocrine topics. Final grade will be Pass/Fail.

**Specific Contact Info:**

Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Clinical Elective | Non-Surgical Elective | Capacity: Min 1  Max 1  Drop/Add Days: 30

**Full-block.**

**Course Director(s) & Faculty**

Sherman J. Alter, M.D., Director
Ryan Simon, M.D.
Jon Woltmann, Jr., M.D.

**Course Description**

The elective will be tailored primarily to the needs of the student both as to content and duration. Learning objectives and goals for the elective will be provided to the student at the beginning of the rotation.

**Course Content & Objectives**

Clinical Infectious Diseases - the student will see appropriate patients admitted to Dayton Children’s Hospital with an infectious disease and will follow these patients but will not be responsible for their care. S/He will see all infectious disease consultations, both ambulatory and inpatients. The student will be responsible for reading assignments from books and journals. The student should be able to understand the basis for ordering specific laboratory tests, their reliability, their sensitivity and specificity, and their costs. The student is expected to attend M-F patient care rounds and combined infectious disease rounds with the physicians, clinical pharmacy staff, the hospital’s infection preventionist, and laboratory personnel.

Since antibiotic utilization is of extreme importance in the practice of infectious disease, the student will be expected to become familiar with all antibiotics and antimicrobials which are commonly used at the present time. Similarly, knowledge of the current immunization schedule and their utilization in children and adolescents is emphasized.

A core curriculum for pediatric infectious diseases is utilized. The student is expected to learn about each condition through readings and/or clinical encounters with patients. The student should become familiar with the common clinical presentation of the condition, etiologic organisms involved, pathophysiology approach to diagnosis or prevention, therapy, and complications or prognosis. Principles of antibiotic stewardship and judicious utilization of antimicrobial agents will be emphasized.

Clinical Microbiology - Along with understanding the basis of diagnosis and treatment of clinical infectious diseases, the student will become familiar with the various modalities and methods utilized in the clinical microbiology laboratory. To complement direct patient contact, the student may spend time in the diagnostic bacteriology and virology laboratories. Through time spent in the laboratory, the student will observe and learn the processing of various microbiologic specimens.

Alternative programs can be designed for the student who wishes to spend more than 4 weeks in the elective. In order to plan for such an elective, Dr. Alter prefers to meet with each candidate for the elective at least one month prior to the beginning date so that the student’s needs can be identified. The purpose of this type of elective would be to offer the student experience in working in a clinical or basic research project, or experience in writing a scientific paper. The use of the library reference materials, chart reviews and other procedures as necessary would be utilized. The student will be expected to become quite familiar with the specific infectious disease literature.
Evaluation
Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, and participation in patient oriented discussions. Final grade will be Pass/Fail.

Prerequisites
Completion of clinical clerkship in pediatrics and permission of the preceptor to participate in the elective.

Specific Contact Info:
Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

PED 806  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Sub-Internship - Inpatient General Pediatrics

Time & Location

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4-week rotation, at Dayton Children’s Hospital; Pediatric Inpatient Service.

- Lead time required to DROP/ADD elective - 2 months.
- 1 student per block, Blocks 3, and 4;
- 2 students per block, Blocks 2, 5, and 15;
- 3 students per block, Blocks 1, and 6-14

Typical work hours will be 0700 to 1830 Monday-Friday, Saturdays & Sundays only assigned call.

Student will take night call on a rotation (usually every 4th night) and have a minimum of four days off during the block. Hours when on call are 0700 until 1100 the following day (24+4).

Influenza vaccination required for Blocks 7-14.

Full-block.

Course Director(s) & Faculty

- Amy Jeffers, M.D., Assistant Professor of Pediatrics
- Various Attending Physicians from the General Pediatric Service at Dayton Children’s Medical Center.

Course Description  Counts as a Sub-Internship

The student will function in a capacity similar to a first-year resident as a member of an inpatient general pediatric team. Patients are assigned by the team senior resident. In an effort to promote continuity of care, students will be involved in overnight shifts. Senior residents and team attendings will directly oversee the work of the student and these physicians will work closely with the student in developing and instituting care plans. Consistent with her/his status as a student, there will be a difference in the degree of responsibility and autonomy which the student will assume. It is anticipated as the rotation progresses, more independence will be granted to the student. Responsibilities also involve documenting in the electronic medical record, including all admission histories and physicals, progress notes and orders (with resident co-signature).

Course Content & Objectives

By the end of the month's rotation as a student, the student should be able to:

- a. perform a complete pediatric history
- b. perform a complete, age-appropriate pediatric physical examination
- c. develop a logical differential diagnosis
- d. plan an appropriate diagnostic approach including laboratory tests and imaging
- e. develop an appropriate initial management plan
- f. use standard pediatric texts and electronic resources to effectively utilize medical literature in developing evidence-based diagnostic and treatment plans
- g. document effectively within an electronic health record

Learning Methods

Learning will occur in the context of direct patient contact, work and teaching rounds with the team and attending physician, and housestaff didactic conferences. The student should follow the Resident Monthly schedule as the teaching schedule is subject to change.

- a. Patient Contact: This will be an integral part of the learning process. One of the principal reasons for this fourth year elective is to improve the student’s ability to deal with children of all ages and their parents. Along with direct patient care, a major focus will be on further developing the student’s clinical reasoning skills and ability to synthesize data into diagnostic and therapeutic decision plans. It is anticipated this experience will enable the student to function more effectively during her/his subsequent first postgraduate year.
- b. Housestaff Work Rounds: (Daily) The student will participate with residents in patient-care decisions and discuss patients with the attending physicians. Weekend and holiday responsibilities follow the student’s assigned call
schedule.

c. Attending Rounds: (Daily) Team teaching rounds with patient presentations, discussions of management and assigned presentations.

d. Resident Conferences (Wed; 11:45 - 4:00): Teaching conferences by faculty for residents and students on various topics in pediatric medicine.

e. Case Conference: (Tues/Thurs): a case-based teaching conference presented by a senior resident to faculty, residents and students.

f. Students are free to arrange special sessions with the Elective Director or his/her designee to deal with any special problem that may arise. The student may consult with members of the faculty on an individual basis as necessary to assist in the acquisition of knowledge and skills necessary for the care of patients.

Evaluation

Using the WSU BSOM competency based assessment for MS-IV clinical rotations, the student’s attendings and senior residents will evaluate their performance as a Sub-Intern. Final grade will be Pass/Fail.

Prerequisites

Successful completion of core pediatric clerkships and Year III requirements.

Specific Contact Info:

Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

PED 807 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 1/2/2019
Pediatric Gastroenterology

4-week rotation, at Dayton Children's Medical Center.

This course is recommended for students that are pursuing careers outside of pediatrics (e.g. Internal Medicine, Family Medicine, and Surgery).

Available capacity will be known mid-May. Prior to scheduling, the student is required to obtain approval through Medical Education department at 641-3453.

Lead time required to DROP/ADD elective - 2 months.

One student per block.

Typical work hours will be 8:00 AM-5:00 PM, Monday-Friday.

Full-block.

Influenza vaccination required for Blocks 7-13.

Clinical Elective  Non-Surgical Elective  Capacity: Min 1  Max 1  Drop/Add Days: 60

Course Director(s) & Faculty

Michael Bates, M.D., PhD., Director
Sean Bingham, D.O.
Adam Mezoff, M.D.
Pramodha Muniyappa, M.D.
Shelly Rustagi, M.D.
Shehzad Saeed, M.D.
Kelly Sandberg, M.D.
Kathryn Williams, D.O.
Sandra Wright, M.D.

Course Description
The student will attend the outpatient gastroenterology clinic and participate in daily rounds on the inpatient service. The student will be given a specific topic to research during the rotation. The topic will be decided by the student and preceptor prior to the beginning of the rotation.

Course Content & Objectives
By the end of the elective, the student will be able to:

a. List the studies indicated in the work up of patients in each of the following categories: diarrhea, vomiting, inflammatory bowel disease, constipation and liver disorders.

b. List the indications and contraindications for gastroenterological procedures including endoscopies and biopsies.

Learning Methods
The student will:

a. Work up new pediatric gastroenterology patients in the outpatient and inpatient settings.

b. Observe gastroenterology procedures, and understand their indications and complications.

Evaluation
Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, participation in patient oriented discussions, and understanding of gastroenterological diagnostic procedures. Final grade will be Pass/Fail.
Prerequisites

Completion of Year III

PED 815 | Last Dept. Review Date: 12/12/2018 | Last Catalog Modification: 12/12/2018
PED 816
Pediatric Cardiology

**Time & Location**

- Full-block.
- 4-week rotation, Dayton Children’s Medical Center. By arrangement with Dr. Ross.

**Capacity**

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Available capacity will be known mid-May. Prior to scheduling, the student is required to obtain approval through Medical Education department at 641-3453.

Tentative to also be offered blocks 4-9 and 11-15.

Lead time required to DROP/ADD elective - 3 months

One student per block.

Typical work hours will be 8:00 AM-5:00 PM, Monday-Friday.

**Course Director(s) & Faculty**

Joseph Ross, M.D., Associate Clinical Professor of Pediatrics, Director

**Course Description**

The student will make rounds with Dr. Ross on cardiology service inpatient, consultations and attend the outpatient cardiology clinic. The student will be given a specific topic to research during the rotation. The topic will be decided by the student and Dr. Ross prior to the beginning of the rotation.

**Course Content & Objectives**

By the end of the elective, the student will be able to:

**a.** List the history and the physical findings in a typical patient with the following diagnoses:

1. Rheumatic carditis
2. Pericarditis
3. Coarctation of aorta
4. V.S.D.
5. A.S.D.
6. P.S.
7. Tetralogy of Fallot
8. Congestive heart failure
9. Storage diseases of the heart
10. Heart block
11. Tachyarrhythmias
12. Cardiac shock

**b.** List the indication and contraindications for:

1. Cardiac catheterization
2. Cardiac Surgery

**c.** Outline the treatment of:

1. Rheumatic carditis
2. Congestive heart failure
3. Heart block
4. Cardiac shock

**Learning Methods**

a. The student will work up new patients in the cardiology service, both in-patient and out-patient.

b. The student will become familiar with patients already admitted to this service.

c. The student will observe and later participate in cardiology procedures.

**Evaluation**

Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient
Prerequisites
Completeion of Year III and demonstrated excellence in pediatrics, and completion of a one-month elective on a pediatric ward.
Sub-Internship - Newborn Intensive Care

**Course Description**  Counts as a Sub-Internship

The student will function in a capacity similar to that of a resident assigned to the NICU. The student will take night call on a rotation identical to that of the junior resident and will be assigned patients by the junior resident. There will be a difference; however, in the degree of responsibility and autonomy which the student will assume. The junior resident will work closely with the student and have an awareness of their level of competency. It is anticipated that as the month progresses and individuals are better acquainted with one another, more independence will be granted to the student.

**Course Content & Objectives**

By the end of the month’s rotation the student will be able to demonstrate the following:

- a competent perinatal history
- a competent neonatal physical examination
- the ability to develop a logical differential diagnosis
- the ability to plan appropriate diagnostic procedures
- the ability to plan appropriate therapy
- the student will use standard pediatric texts and begin to learn to utilize the medical literature in developing differential diagnosis and treatment plans
- the student will demonstrate some independence of thought relative to items as above; with the results of his/her discussion intended to effect a change in the patient’s management.

**Learning Methods**

Learning will occur in the context of direct patient contact, formal housestaff conferences, case discussion, and teaching rounds with the attending physician.

- **Housestaff NICU Work Rounds:** (Mon., Tues., Wed., Thurs., Fri.) The student will participate with the ward residents in patient-care decisions. Sat. and Sun.: time arranged with residents.
- **Attending NICU Rounds:** (Mon., Tues., Thurs., Fri.) Teaching rounds: patient presentations and discussions, and teaching presentations.
- **Grand Rounds:** (8:30-9:30 a.m. - Wednesday)
- **Resident Core Conference:** (9:30-10:30 a.m. - Wednesday)
- Students are free to arrange special sessions with the neonatology staff to deal with any special problem which may arise. The student may consult with members of the faculty on an individual basis as necessary to assist in the acquisition of knowledge and skills necessary for the care of patients.
- **Patient Contact:** This will be an integral part of the learning process. One of the main reasons for such a fourth year elective will be to improve the student’s ability to deal with children and parents. It will raise his/her cognitive level,
skill at interpersonal relationships and technical skills in medical procedures and increase his/her confidence in
dealing with smaller children. It will elevate decision-making abilities. It will increase awareness of all the factors which
go into making a diagnosis and prescribing proper laboratory and therapeutic measures. It is anticipated this
experience will enable the student to function more effectively in his/her subsequent first postgraduate year.
g. **Transport:** If possible, accompany the NICU transport team for a neonatal transport to gain firsthand knowledge and
experience of sick newborn stabilization.

**Evaluation**

Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient
care, medical record documentation, and participation in patient oriented discussions. Final grade will be Pass/Fail.

**Prerequisites**

Successful completion of Year III. **Advance notification is required.**

**Specific Contact Info:**

Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

PED 820  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
Sub-Internship - Pediatric Intensive Care

**Course Description**
Counts as a Sub-Internship

The student will function in a capacity similar to that of a resident assigned to the PICU. The student will take night call on a rotation identical to that of the senior resident and will be assigned patients by the senior resident. There will be a difference; however, in the degree of responsibility and autonomy which the student will assume. The senior resident will work closely with the student and have an awareness of their level of competency, all under the supervision of a PICU attending. It is anticipated that as the rotation progresses and individuals are better acquainted with one another, more independence will be granted to the student.

**Course Content & Objectives**

By the end of the month’s rotation the student will be able to demonstrate the following:

a. a competent pediatric history  
b. a competent pediatric physical examination  
c. the ability to develop a logical differential diagnosis  
d. the ability to plan appropriate diagnostic procedures  
e. the ability to plan appropriate therapy  
f. the student will use standard pediatric texts and begin to learn to utilize the medical literature in developing differential diagnosis and treatment plans  
h. the student will demonstrate some independence of thought relative to items a-e above; with the results of his/her discussion intended to effect a change in the patient’s management.

**Learning Methods**

Learning will occur in the context of direct patient contact, formal house staff conferences, case discussion, and teaching rounds with the attending physician.

a. **Morning attending rounds:** (7 Days a week) The student will participate with the attending physician on service and PICU residents in ICU patient care decisions.  
   *IMCU Rounds - 7:30 a.m. to 8:30 a.m.*  
   *ICU Rounds - 8:30 a.m. to 11:00 a.m. (Trauma rounds 8:30 a.m.)*  
b. **Lectures:** (Mon-Fri, 12:00 p.m. to 1:00 p.m.) A teaching conference will be held in the ICU conference room.
c. **Grand Rounds:** (Wed, 8:30 a.m. to 9:30 a.m.)

d. **Resident/Student Work Time:** 11:00 a.m. to 12:00 p.m.

e. **Resident Core Conference:** (Wed, 9:30 a.m. to 10:30 a.m.)

f. Students are free to arrange special sessions with Dr. Patel to deal with any special problems which may arise. The student may consult with members of the faculty on an individual basis as necessary to assist in the acquisition of knowledge and skills necessary for the care of patients.

g. **Patient Contact:** This will be an integral part of the learning process. One of the main reasons for such a fourth year elective will be to improve the student's ability to deal with children and parents. It will raise his/her cognitive level, skill at interpersonal relationships and technical skills in medical procedures and increase his/her confidence in dealing with smaller children. It will elevate decision-making abilities. It will increase awareness of all the factors, which go into making a diagnosis and prescribing proper laboratory and therapeutic measures. It is anticipated this experience will enable the student to function more effectively in his/her subsequent first postgraduate year.

### Evaluation

Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, and participation in patient oriented discussions. Final grade will be Pass / Fail. The student will also be issued a binder with PICU related articles at the start of their rotation. They are expected to read the articles and return the binder at the conclusion of the rotation. The rotation evaluation will be provided once the binders have been returned.

### Prerequisites

Successful completion of Year III.

### Specific Contact Info:

Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

PED 821  
**Last Dept. Review Date:** 12/12/2018  
**Last Catalog Modification:** 12/12/2018
2-week rotation, Dayton Children’s Hospital Radiology Department.

Lead-time to ADD or DROP the elective - 2 months

1 student per Block

Typical work hours will be 8:00* AM-5:00 PM, Monday-Friday.

*9:30 AM - First Day only; 6:30 AM - One day per rotation to Review ER cases with the Radiologists

Influenza vaccination required for Blocks 7-13.

Clinical Elective  Non-Surgical Elective  Capacity: Min 1  Max 1  Drop/Add Days: 60

Course Description

The purpose of this course is to provide an introduction to pediatric medical imaging with a focus on clinical application. The student will be provided with an extensive curriculum with reading lists, internet activities, resident lead case presentations and publications and hands-on experiences to select from.

Course Content & Objectives

This elective will prepare the student to deal with radiographic aspects of acute pediatric care as well as routine medical imaging for the pediatric specialists. The student will learn to:

a. Develop knowledge in ordering imaging studies appropriate for common pediatric problems.

b. Develop a working method for evaluation of standard radiographic exams.

c. Diagnose common entities on radiographs.

d. Review basic science, anatomy, pathophysiology, and clinical diagnosis in relation to radiographs.

Learning Methods

a. The student completing the Radiology elective will be expected to participate as a member of the patient care team by attendance in the radiology department.

b. Selected readings through medical journals and literature may be assigned and the student will be expected to discuss this material in an informal session.

c. The student is also expected to prepare a case for submission to Med Pix under the direction of one of the staff radiologists. In addition, there may be an opportunity to present a case at the radiology pre-grand rounds.

Evaluation

The staff radiologist will evaluate the performance of the student throughout the month and complete an evaluation at the end of the month. Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, participation in patient oriented discussions, and understanding of medical imaging and radiographic diagnostic procedures. Final grade will be Pass / Fail.

Prerequisites

Wright State University Boonshoft School of Medi
Completion of Year III Pediatrics, Internal Medicine and Surgery Clerkships. The student is required to obtain approval through the Medical Education department at 641-3453 prior to scheduling.

Specific Contact Info:
Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

PED 823  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Clinical Radiology

**Time & Location**

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- 4-week rotation, Dayton Children’s Hospital Radiology Department.
- Lead-time to ADD or DROP the elective - 1 month.
- Later block availability TBD
- 1 student per Block
- Typical work hours will be 8:00 AM-5:00 PM, Monday-Friday.
- *9:30 AM - First Day only; 6:30 AM - One day per rotation to Review ER cases with the Radiologists
- Influenza vaccination required for Blocks 7-13.

**Full-block.**

**Course Director(s) & Faculty**

- Elizabeth H. Ey, MD
- Frank Pianki, DO
- Mary K. Greene, MD
- Anne L. Calkins, MD
- Dawn E. Light, MD, MPH
- Mark Warren, DO, Elective Director

**Course Description**

The purpose of this course is to focus on the academic skills needed for diagnostic radiology residents. This will include evaluating the validity of journal articles, preparing and presenting case presentations, gaining experience in curriculum planning, as well as becoming familiar with the expected workload of a radiology resident.

Limited to WSU Boonshoft School of Medicine students only.

**Course Content & Objectives**

The student will be expected to perform the daily functions of a radiology resident. This includes gaining the ability to quickly and accurately assess journal articles, present clinical cases to peers and faculty, design curriculum and learning tools for medical students, submit cases for publication, and become familiar with the current computer technologies involved in becoming a capable radiologist.

**Learning Methods**

- **Literature Review:** The student is asked to read 3 articles from Radiographics and complete the CME evaluations at the completion of the article. An additional article from AJR will be assigned by the Kettering Radiology Chief Residents for presentation at their grand rounds.
- **Case Presentations:** The student will learn to extract teaching cases from PACS and prepare a PowerPoint presentation with images which are stripped of identifying data and appropriately labeled. This case will be 5-10 minutes in duration and will be presented prior to Grand Rounds at Dayton Children’s. The student will also assist others with preparing slides for their MEDPIX submissions.
- The student will prepare and publish one case presentation on MEDPIX.
- The student will participate in at least one call night with a senior radiology resident.
- The student will assist in the revision of an Introduction to Radiology curriculum for MSIII students.
- The student will do at least one practice interview for radiology residency.

**Evaluation**

The staff radiologist will evaluate the performance of the student throughout the month and complete an evaluation at the end of the month. Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, participation in patient oriented discussions, and understanding of medical imaging and radiographic diagnostic procedures. Final grade will be Pass/Fail.

[https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf](https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf)
Prerequisites
The student is required to obtain approval through the Medical Education department at 641-3453 prior to scheduling. Elective is reserved for students pursuing a residency in Diagnostic Radiology. Completion of Year III Pediatrics, Internal Medicine and Surgery Clerkships.

Specific Contact Info:
Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

PED 824    Last Dept. Review Date: 12/12/2018    Last Catalog Modification: 12/12/2018
**Course Description**

The focus of this course will be on performing a comprehensive psychosocial assessment (“HEADSSS”) on adolescent patients in a manner that maintains confidentiality, gathers appropriate medical & psychosocial information and creates a safe environment for the adolescent & provider. In addition, the course goal is to gain experience & comfort with both adolescent primary care & adolescent-specific issues.

**Course Content & Objectives**

This elective will prepare the student to become more familiar in the care of adolescents. In addition to becoming more comfortable with the psychosocial interview, the student will learn to:

a. Differentiate between normal adolescent behavior, growth and development and deviations from the norm
b. Diagnose and manage common conditions in adolescents which generally do not require referral or consultation.

c. Be able to state the evaluation and treatment options for patients with common menstrual disorders, including dysfunctional uterine bleeding, dysmenorrhea, amenorrhea (primary or secondary), menorrhagia and Polycystic Ovarian Syndrome (PCOS).
d. Know about the various forms of hormonal medications available for menstrual dysfunction and birth control, to include indications, contraindications, and side effects and their management

e. Recognize the indications for screening for sexually transmitted infections, and the common presentations. Be able to treat STI’s by being able to locate current treatment recommendations.
f. Recognize the various substances used by and abused by adolescents, and common toxidrome presentations. Be able to counsel patients on use of tobacco products, alcohol, and marijuana using “stages of change” motivational counseling.
g. Be able to identify common mental health problems in adolescents, and list resources available for evaluation and treatment. Recognize the antidepressant medications available and the indications, contraindications, and side effects.
h. Diagnose common sports injuries in adolescents and be able to differentiate which condition need orthopedic referral.
i. Be able to obtain a sexual history in an open, non-threatening manner for heterosexual and LGBTQ patients.

**Learning Methods**

a. Direct patient care: The student will obtain a history and perform an appropriate physical exam for each patient. She/he will precept each patient and formulate a diagnosis and plan with the attending who will then see the patient with the student.

b. General medical education: For this two-week elective, students will participate in didactic learning sessions as well as prepare and discuss a brief presentation given on a topic in adolescent medicine of their choosing.

**Evaluation**

The attending will evaluate the performance of the student throughout the rotation and complete an evaluation at the end.
of the month. Using the WSU-BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, participation in patient oriented discussions, and GME. Final grade is Pass/Fail.

**Prerequisites**

Elective is open only to **HPSP, USUHS, and WSU-BSOM students**
Completion of Year-III Pediatrics clerkship

**Specific Contact Info:**

Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

*This Course is identical to:* PED 825  
Last Dept. Review Date: 12/12/2018  
Last Catalog Modification: 1/2/2019
Introduction to Child Maltreatment

Time & Location

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2-week rotation, Dayton Children’s Hospital, One Children’s Plaza, Dayton, OH.

Monday - Friday, 8:30 a.m. - 5 p.m. Minimal contact time will be 40 hours per week.

Lead time required to DROP/ADD elective - 30 days

Tentative to also be offered blocks 3a-9b and 11a-15b.

Available capacity will be known mid-May. Prior to June 1st, students are required to obtain approval through the Medical Education office at 937-641-3453.

1 student per block; 2nd student may be accepted based on prior approval

Half-block.

Typical work hours will be 8:30 AM-5 PM, Monday-Friday.

Influenza vaccination required for Blocks 7-13.

Clinical Elective Non-Surgical Elective Capacity: Min 1 Max 1 Drop/Add Days: 30

Course Director(s) & Faculty

Kelly Liker, MD, Medical Director, Department of Child Advocacy
Destry Fallen, MSSW, LISW-Manager, Department of Social Work
Libby Nicholson, MSSW, LISW- Director, CARE House

Course Description

The student will work closely with Dr Liker as well as other board-certified child abuse pediatricians and nurse practitioner for an introduction to the multidisciplinary approach to evaluation and management of cases of child maltreatment. Work settings include in the outpatient CARE clinic at Dayton Children’s Hospital and at the Warren County Child Advocacy Center where patients are evaluated for non-acute sexual abuse and physical abuse concerns. Inpatient and Emergency Department consultation may be conducted with Dr Liker or other medical providers for cases of suspected physical abuse, neglect and sexual abuse. The student will accompany medical providers to civil and/or criminal court and any relevant lectures or multidisciplinary meetings (CARE team, Child Death Review) as available.

Course Content & Objectives

1. Increase knowledge regarding the scope of child maltreatment, varied clinical presentations, mandatory reporting laws, possible physical and behavioral manifestations, appropriate laboratory and radiological diagnostic testing, and common misdiagnoses
2. Improve skills needed to obtain a comprehensive history and physical exam when evaluating a pediatric patient for possible maltreatment
3. Understand the importance and function of a multidisciplinary approach utilizing social work, medicine, child protective services and law enforcement in the evaluation of suspected child maltreatment

Learning Methods

1. Clinical experience in direct patient care with close supervision per Dr. Liker and other medical providers in outpatient and inpatient settings with pediatric patients undergoing evaluation for possible maltreatment (NOTE: student will not evaluate patients independently given the nature of presenting concerns)
2. Participation in case reviews staffed by medical/mental health professionals, Children’s Services, law enforcement, prosecutor’s office, and children’s advocacy center staff
3. Observation of consultations performed by social work staff
4. Assigned reading list of articles relevant to topics in child maltreatment
5. Other activities as available:
   • Montgomery County Child Death Review Committee
   • Interactive media for independent learning
   • American Academy of Pediatrics, Ohio Chapter, Committee on Child Abuse and Neglect
   • Physician child abuse peer review activities

Wright State University Boonshoft School of Medi https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
6. One-on-one lectures/discussions with Dr. Liker regarding selected issues in child maltreatment as time permits
7. Completion of a post-test

**Evaluation**

Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, interaction with team members, and participation in patient oriented discussions. The student is also required to complete a pre-test and post-test. Final grade will be Pass / Fail.

**Prerequisites**

Completion of Year-III Pediatrics clerkship

**Specific Contact Info:**

Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

This Course is identical to: PED 827  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018

PED 822
Sub-Internship - Pediatric Hematology/Oncology

**Course Description**

The student will function in a capacity similar to a first-year resident as a member of staff of the Pediatric Hematology Department. Patients are assigned by the team senior resident. Call schedule will be usually every 4th night and involve overnight shifts. Pediatric residents and hematology-oncology attendings will directly oversee the work of the student and work closely with the student in developing and instituting care plans. Consistent with her/his status as a student, there will be a difference in the degree of responsibility and autonomy which the student will assume. It is anticipated as the rotation progresses, more independence will be granted to the student. Responsibilities also involve documenting in the electronic medical record, including all admission histories and physicals, progress notes and orders (with resident co-signature).

**Course Content & Objectives**

By the end of the elective, the student will be expected to:

- Perform a complete pediatric history and age-appropriate physical examination.
- Develop a logical differential diagnosis, appropriate diagnostic approach, and initial management plan.
- Utilize resources to assess medical literature in developing evidence-based diagnostic and treatment plans.
- Document effectively in the electronic health record.
- List the studies indicated in the work-up of anemia, bleeding problems, lymphadenopathy, abdominal masses and various malignant processes.
- Learn the rationale for making clinical decisions involving hematologic procedures, interpretation of laboratory data, and the use of chemotherapeutic agents. Understand the multidisciplinary interactions among the oncologist and other specialists such as the surgeon, pathologist, radiologist and radiotherapist in treatment and follow-up of patients.

**Learning Methods**

- Work up new admissions to the pediatric hematology-oncology service.
- Follow and treat patients already on the pediatric hematology-oncology service.
- Observe and participate in hematologic procedures (e.g., bone marrow aspirations, lumbar punctures, administration of chemotherapy).
- Attend lectures and conferences involving the topic of Pediatric Hematology-Oncology.
- Participate in sessions examining patients and teaching microscopic slides with staff supervision.

**Evaluation**
Using the WSU BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, and participation in patient oriented discussions. Final grade will be Pass/Fail.

Prerequisites
Completion of Year III

Specific Contact Info:
Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

PED 828  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Course Description

This elective will focus on understanding the issues and available resources for providing nutrition for children in both inpatient and outpatient settings, with specific focus on how a physician can better evaluate and recommend nutritional changes for patients of all varieties and socioeconomic status. Students will learn and work under the guidance of registered dietitians on the staff of Dayton Children’s Hospital.

Course Content & Objectives

The objective of this elective is for the student to:

a. Understand normal nutrition through all stages of growth.
b. Understand nutrition implications of specific disease/disorder states and develop working knowledge from key reference materials (Pediatric Nutrition Care Manual, Dayton Children’s Pediatric Module, ASPEN Pediatric Core).
c. Under dietitian’s supervision, screen, assess, and monitor patients in both inpatient and outpatient settings and develop a plan for intervention and monitoring for a minimum of eight (8) current patients as assigned.
   • Assess nutritional status of individual patients with complex medical conditions.
   • Select, implement, and evaluate standard enteral and parenteral nutrition regimens in a medically stable patient to meet nutritional requirements where recommendations or adjustments involve primarily macronutrients.
   • Design and implement nutrition care plans, as indicated by the patient’s health status.
   • Discuss patients with dietitian and visit patients daily or as appropriate.
   • Observe dietitian counseling and provide nutrition education under supervision, as appropriate.
   • Review, and manage if appropriate, monitoring of patient’s food and/or nutrient intake.
   • Integrate pathophysiology into medical nutrition therapy recommendations
   • Follow at least one patient for a week of the service
   • Determine discharge needs and seek ways to ensure needs are met.
d. Review how menus, special diets, and room service are handled.
e. Select one day’s worth of menu for a prescribed special diet (sodium, calorie, or fat restricted); consume at least one of those meals.
f. Complete Formula Room module and quiz. Write and provide education on formula recipes as appropriate to patient care needs.
g. Participate in applied sensory evaluation of food and nutrition products as available.
h. Discuss with dietitian the referral system as appropriate to patient care. Examples include; WIC, BCMH, and Metabolic formula program.
i. Observe or if appropriate, conduct nutrition care component of interdisciplinary team conferences to discuss patient treatment and discharge planning.

Learning Methods
a. Online learning modules will be used to familiarize the student with nutrition content and maximize patient contact time in the hospital setting.
b. Direct patient contact will be the primary learning mechanism to learn how to make recommendations and do nutrition evaluations in an efficient manner.
c. Inpatient
   Evaluate and manage patients on general pediatrics, Heme/Onc, and consults in the NICU and PICU as provided
   Make initial evaluations of inpatient consults, recommendations, and evaluate needs for discharge planning
d. Outpatient
   Evaluate and manage patients in subspecialty clinics including Metabolic, Diabetes, and Lipid Clinics
   Be able to evaluate nutritional status of an outpatient
   Be able to provide quick recommendations and resources in the outpatient setting

**Evaluation**
Using the WSU-BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, participation in patient oriented discussions, and GME.

Final Grade is Pass/Fail.

**Prerequisites**
MS-4 status and completion of core Pediatric clerkship.

**Specific Contact Info:**
Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

PED 830  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Only Open to WSU Students
Academic Medicine - Pediatrics

Time & Location

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REQUIRES PRIOR APPROVAL FROM COURSE DIRECTOR TO BE ENROLLED.

PROJECT PLAN MUST BE IN THE WORKS WITH DIRECTOR OR THEIR DESIGNEE PRIOR TO APPROVAL.

Course cannot be ranked during online scheduling process- will be manually added to schedule by Student Affairs.

Longitudinal elective which will end on May 15th.
Lead time required to DROP/ADD elective - 2 weeks.

Minimum of 160 hours over the course of the elective, with focus on educational and direct teaching as outlined by the student and course director.

Non-Clinical Elective  Non-Surgical Elective  Capacity: Min 1  Max 3  Drop/Add Days: 15

Course Director(s) & Faculty

Dr. Erica Taylor

Course Description

Medical education depends upon residents to be teachers of medical students; however prior to entering residency, little formal education exists regarding teaching skills. This elective will help prepare students for their future teaching role. Under the supervision of experienced educators, students will begin teaching junior medical students. The student will explore, under their own direction, the foundations of educational design and theory, and some insight in mechanism of curriculum development and assessment.

Students will receive instruction on various aspects of teaching, include but not limited to: giving and formation of medical education, giving formative feedback, and techniques of clinical and/or “bedside” teaching. These experiences will occur in a variety of settings ( both on a clinical setting and at academic institutions). These settings may include interviewing and physical exam sessions in ICM, TBL sessions in courses and/or clerkships, or other small group teaching. Additionally, students may assist in the development of on-line tutorials, new educational materials, assessment activities and integrative sessions. Students will work primarily with one course director and outline an individualized elective, beginning with the creation of their own specific educational objectives for this elective.

Course Content & Objectives

This objective of this elective is for the student to:

a. Understand basic concepts in Adult education/adult learning theory as it pertains to medical education.

b. Develop educational objectives for their own specific learning goals.

c. Develop an educational “project” that encompasses the student educational interest and who will be responsible for formation, implementation and delivery of content to junior peers.

d. Understand the process of curriculum developmental and test question writing

e. Introduction to EPAs (Entrustable Professional Activities) and resident milestones for both promotion and feedback.

f. Introduction to Academic portfolio and its usage in promotion/advancement in academic medicine

g. Utilize the principles of giving effective feedback through introduction to clinical medicine or other clinical supervisory experiences.

Students may be involved in a variety of teaching experiences, including but not limited to:

1. Small group leaders for ICM interviewing sessions
2. Preceptors for ICM Physical Examination sessions
3. Lead ICM-2 case discussions
4. Develop and/or assist in TBL’s pre-clinically and/or clinically
5. Develop educational materials for on-line tutorials or other technology driven modalities
6. Facilitate small group teaching activities.
7. Assist in the development of assessment activities, possibly including writing USMLE style questions, OSCE cases and other self-assessment modules
8. Provide direct observational teaching and feedback on clinical clerkships

**Learning Methods**

a. Online learning sources/modules will be used to familiarize the student brief introduction to educational theory
b. Reflective exercises on professional growth and development of teaching style
c. Depending on student educational goals/project, will have direct contact with junior peers on pertinent pediatric topic or vital skills
d. Direct observation on feedback and impromptu educational opportunities on wards, in outpatient clinic
e. Exposure to different tools of assessment and development of residents.
f. Reading assignments with formal or informal discussion
g. Objective Standardized Teaching Experiences (OSTEs)

**Evaluation**

Using the WSU-BSOM competency based assessment for MSIV rotations, the student will be evaluated on clinical patient care, medical record documentation, participation in patient oriented discussions, and GME.
Final grade is Pass / Fail.

**Prerequisites**

MS-4 status and completion of core Pediatric clerkship

**Specific Contact Info:**

Dr. Erica Taylor, erica.taylor@wright.edu
Rebecca Elofskey, Student Coordinator, rebecca.elofskey@wright.edu

**This Course is identical to:** PED 880

Last Dept. Review Date: 12/12/2018
Last Catalog Modification: 12/12/2018

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Only Open to WSU Students

Introduction to Plastic and Reconstructive Surgery

Course Director(s) & Faculty
R. Michael Johnson, M.D., Director, Professor
Salim Mancho, D.O., Assistant Professor

Course Description
The student will act as an extern, involved in the preoperative evaluation, intraoperative care and postoperative follow-up of patients on the plastic surgery panel. The student may be asked to participate in emergency evaluation and care of patients. Attendance at weekly burn conference and clinic is suggested.

Course Content & Objectives
After this plastic surgery rotation, the student should be able to evaluate and manage patients requiring breast reconstruction, hand surgery, and microsurgery, in addition to general plastic surgery. The student will also be expected to suture wounds properly and understand the nature of complicated wound care. The student will be able to evaluate and manage both acute burn injuries as well as burn patients requiring late reconstruction.

Learning Methods
The student will learn from direct supervised patient care and discussion of relevant cases with the attending physicians. Research participation is encouraged. Participation in plastic surgery educational conference is suggested.

Evaluation
Evaluation is based on the student’s initiative, overall clinical performance, and demonstrated knowledge. Grade: Pass/Fail

Prerequisites
Completion of Year III.

This Course is identical to:

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<tr>
<th>Course</th>
<th>Time &amp; Location</th>
<th>Capacity</th>
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Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Plastic/Reconstructive Surgery

**Time & Location**

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Plastic interested students in blocks 1-7.

4-week rotation, various community based hospitals and medical centers.

Lead time to DROP/ADD elective - 1 month.

**Clinical Elective**

**Surgical Elective**

**Capacity:** Min 1 Max 2 Drop/Add Days: 30

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**Full-block.**

**Course Director(s) & Faculty**

R. Michael Johnson, M.D., Director, Professor
Salim Mancho, D.O., Assistant Professor
Clinical Faculty

**Course Description**

The students will be introduced to preoperative evaluation, intraoperative care and postoperative follow-up of patients on the plastic surgery panel. Students may be asked to participate in emergency evaluation and care of patients. Attendance at weekly burn conference and clinic is required.

**Course Content & Objectives**

After this plastic surgery rotation, students should be able to evaluate and manage patients requiring breast reconstruction, hand surgery, and microsurgery, in addition to general plastic surgery. They will also be expected to suture wounds properly and understand the nature of complicated wound care. The student will be able to evaluate and manage both acute burn injuries as well as burn patients requiring late reconstruction.

**Learning Methods**

The student will learn from direct supervised patient care and discussion of relevant cases with the attending physicians. Research participation is encouraged. Participation in plastic surgery educational conference is mandatory.

**Evaluation**

Evaluation is based on the student’s initiative, overall clinical performance, and demonstrated knowledge. Grade: Pass/Fail

**Prerequisites**

Completion of Year III.

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This Course is identical to:

| PLS 850 | SUR 825 | PLS 825 |

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Last Dept. Review Date: 12/12/2018  
Last Catalog Modification: 12/12/2018

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Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Half-block.

Course Director(s) & Faculty

Mary White, Ph.D., Course Director, Department of Population and Public Health Sciences

Course Description

Literature has long been known to capture important truths about the human condition. Novels, short stories, plays and poems by physicians and patients portray reflections, moods, attitudes, and feelings that are rarely shared among physicians or between physicians and patients. This elective offers students an opportunity to reflect on their clinical experiences and identity as medical professionals through the study of short stories, poetry, and individual creative writing projects. Literary analysis may also promote skills of interpretation and discernment in physician-patient relationships and cases of ethical conflict.

In this course we will read and discuss selections that represent various issues in medicine from the perspective of patients, physicians, medical students, and family members. Writers may include Abraham Verghese, Ian McEwan, Atul Gawande, Linda Peeno, Anne Fadiman, Richard Selzer, Leo Tolstoy, John Donne, and selections from *JAMA* and *Annals of Internal Medicine*. Students’ suggestions are welcome. Students will be asked to write four short works of fiction or personal narrative to be shared with the class.

Course Content & Objectives

Through the study of literature, students will have an opportunity to do the following:

a) examine a variety of social and ethical issues in medical practice;

b) reflect on their own clinical experiences through readings, journals, and discussions;

c) develop skills of interpretation, discernment, and judgment through textual and character analysis;

d) explore issues of personal interest through creative writing assignments; and

e) refine writing skills through peer review of written work.

Learning Methods

a) Reading assignments of short stories and poetry

b) Class discussion

c) Writing assignments

Evaluation

Pass/Fail based on the evaluation of class participation and written work.

Prerequisites

None

Specific Contact Info:

Dr. Mary White, mary.t.white@wright.edu
Future Directions in Global Health

Time & Location

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Half-block.

Course Director(s) & Faculty

Mary White, Ph.D., Director, Department of Community Health

Course Description

Communities worldwide are under stress from population growth, environmental degradation, political conflict, weakened economies, climate change, and shortages of affordable food and water, all of which are exacerbating health disparities worldwide. These disparities are widely recognized as a source of geopolitical instability; correspondingly, strengthening health care capacities worldwide is increasingly seen as a political and diplomatic imperative.

Medical students and residents have long contributed to efforts to improve health care in less-affluent countries. Service in low-resource environments is known to provide young professionals with a broader view of the goals of medicine, greater sensitivity to social and cultural contributors to health care, and frequently, commitment to careers in primary care. Today, diverse organizations offer a range of career opportunities to medical graduates. These include NGOs such as Doctors for Global Health, Child Family Health International, Médecins Sans Frontières and the Gates Foundation; federally-funded programs such as the CDC, PEPFAR, Fogarty, and twinning programs, and international aid organizations such as the World Health Organization and Global Fund.

This elective provides an introduction to key initiatives and trends in global health education, research, and international development. It is designed for students who are interested in pursuing global health in their residency training and future careers. The class involves considerable reading, writing, and research. Each day, students will be expected to read several chapters or articles, respond in writing to questions based on these readings, and pursue independent research. Students will meet each morning to discuss the readings and their written responses; afternoons will be free for further reading and research.

The first week will focus on global health education in residency training and the role of academic medicine in strengthening health capacities worldwide. Research activities will involve some aspect of global health education. This may involve surveying global health programs, curricula, texts, or established core competencies; identifying potential resources such as aid organizations, area physicians active in global health, or refugee service providers; reviewing current international partnerships at WSU and collaborations across campus and at other institutions; assessing WSU students’ experiences, needs or interests in global health; exploring faculty interest, unmet needs, new service opportunities, administrative tools, web-based resources, etc. As applicable, research findings will be used to strengthen the global health program at WSU.

The second week will focus on international aid efforts, research, and academic partnerships. We will examine some of the ways global health initiatives are financed and organized, the range of goals and methods, outcomes and means of assessment, logistical and cultural challenges, and the use of medical personnel from host and/or sponsoring countries. Each student will research one organization or initiative in detail, critiquing its funding, goals, operations, effectiveness, challenges, and risks and benefits for western medical personnel.
Research findings will be presented at the end of each week in formal presentations to the class as well as in written reports to the Course Director.

**Course Content & Objectives**

After taking this course, students will be able to do the following:

a) Identify the essential goals and expectations of global health training during residencies.
b) Describe how academic partnerships, research, and international aid may be used to strengthen health care capacities worldwide.
c) Analyze relationships between global health initiatives and political and economic interests.
d) Describe the goals and programs of prominent American and international organizations working in global health.

**Learning Methods**

- Readings and case studies
- Written responses to questions from readings
- Discussion
- Research and research presentation

**Evaluation**

Course director will complete the appropriate WSUBSOM fourth-year elective evaluation form. Grade is Pass/Fail and based on:

- Attendance and class participation: 25%
- Written responses to questions from readings: 25%
- Completed research projects:
  - Global health education: 25%
  - Global health aid organization: 25%

**Prerequisites**

Participation in the International Health Program

**Specific Contact Info:**

Mary White, PhD, mary.t.white@wright.edu

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**PPH 813**

*Last Dept. Review Date: 12/12/2018*  
*Last Catalog Modification: 12/12/2018*
Outpatient Child and Adolescent Psychiatry

PYC 803

<table>
<thead>
<tr>
<th>Time &amp; Location</th>
<th>4 weeks at a variety of sites including: Juvenile Detention Center, WPAFB, Youth Resource Center, TCN, Dayton Children’s Hospital, and Elizabeth Place. Lead time to DROP/ADD: 1 month or discussion with elective co-director.</th>
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**Full-block.**

**Course Director(s) & Faculty**

Ryan Mast, D.O., Co-Director,
Assistant Professor (WSU-BSOM)
Division of Child/Adolescent Psychiatry

Suzie Nelson, M.D., Co-Director,
Assistant Professor, (WSU-BSOM)
Division of Child/Adolescent Psychiatry

**Course Description**

The student will gain experience in child and adolescent psychiatry consultation in outpatient settings. Children and adolescents with behavioral, emotional, and family disturbances will be evaluated and treated. Additional experiences in inpatient and residential treatment settings can be arranged according to student interest. The student will perform child and adolescent outpatient evaluations in a community mental health center. The student will work with attending and senior residents in outpatient clinics.

**Course Content & Objectives**

a. Learn to perform psychiatric evaluations with children, adolescents, and families, to report findings, and to develop differential diagnoses and treatment plans.

b. Work with families whenever possible.

c. Participate in liaison activities with other pediatric services, and will observe child and adolescent psychiatry faculty in a range of practice activities.

**Learning Methods**

a. Direct supervision from attending staff and residents.

b. Observation of student conducting live patient interviews.

c. Reading assignments and discussion with faculty.

d. Didactic seminars with faculty and residents at the Wright State University Department of Psychiatry.

**Evaluation**

The student will be evaluated through direct observations of his/her clinical interactions with patients and families, and through staff reviews of his/her formulation, recommendations, interactions with other professionals, and presentations. Grade: Pass/Fail

**Prerequisites**

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Successful completion of third year psychiatry clerkship.

Specific Contact Info:

Samantha Holcombe, Student Coordinator, samantha.holcombe@wright.edu

PYC 803  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
Introduction to Outpatient Child and Adolescent Psychiatry

PYC 804

Time & Location

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2 weeks at a variety of sites including: Juvenile Detention Center, WPAFB, Youth Resource Center, TCN, Dayton Children’s Hospital, and Elizabeth Place. Lead time to DROP/ADD: 1 month or discussion with elective co-director.

Clinical Elective

Non-Surgical Elective

Capacity: Min 1 Max 1 Drop/Add Days: 30

Half-block.

Course Director(s) & Faculty

Ryan Mast, D.O., Co-Director,
Assistant Professor (WSU-BSOM)
Division of Child/Adolescent Psychiatry

Suzie Nelson, M.D., Co-Director,
Assistant Professor, (WSU-BSOM)
Division of Child/Adolescent Psychiatry

Course Description

**This 2 week rotation is only for students planning to apply for Psychiatry Residency.** The student will gain experience in child and adolescent psychiatry consultation in outpatient settings. Children and adolescents with behavioral, emotional, and family disturbances will be evaluated and treated. Additional experiences in inpatient and residential treatment settings can be arranged according to student interest. The student will perform child and adolescent outpatient evaluations in a community mental health center. The student will work with attending and senior residents in outpatient clinics.

Course Content & Objectives

a. Learn to perform psychiatric evaluations with children, adolescents, and families, to report findings, and to develop differential diagnoses and treatment plans.

b. Work with families whenever possible.

c. Participate in liaison activities with other pediatric services, and will observe child and adolescent psychiatry faculty in a range of practice activities.

Learning Methods

a. Direct supervision from attending staff and residents.

b. Observation of student conducting live patient interviews.

c. Reading assignments and discussion with faculty.

d. Didactic seminars with faculty and residents at the Wright State University Department of Psychiatry.

Evaluation

The student will be evaluated through direct observation of his/her clinical interactions with patients and families, and through staff reviews of his/her formulation, recommendations, interactions with other professionals, and presentations. Grade Pass/Fail.

Prerequisites

Successful completion of third year psychiatry clerkship. **This 2 week rotation is only for students planning to apply for Psychiatry Residency.**
Only Open to WSU Students

Consultation/Liaison Psychiatry

PYC 808

Time & Location

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Four weeks; Miami Valley Hospital. Lead time required to DROP/ADD elective - 1 months.

1 student per Block; availability may be dependent upon concurrent 3rd year clerkship placements

Please contact Psychiatry Coordinator for approval: samantha.holcombe@wright.edu

Clinical Elective Non-Surgical Elective Capacity: Min 1 Max 1 Drop/Add Days: 30

Full-block.

Course Director(s) & Faculty

John Weiffenbach, MD and Lisa Cantor, MD, Elective Directors, Assistant Professors of Psychiatry

Course Description

The student will function as a member of the proactive consultation liaison (C&L) team that includes: attending staff, second year residents, third year medical students, advanced nurse practitioners, clinical nurse specialists, and social workers. Additional opportunities and requirements may include involvement in the care of patients undergoing neuromodulation treatment (eg. Electroconvulsive Therapy (ECT)). The C&L team meets and rounds throughout the day. The student should expect to be on service Mon-Fri 7A- 5P. There are weekly scheduled group seminars and didactics.

Course Content & Objectives

The student will learn to perform psychiatric evaluations on medical/surgical patients in need of consultation, write up his/her findings, and arrive at a differential diagnosis and treatment plan including biopsychosocial recommendations for the patient's further care. The student may also gain experience in family intervention in the medicine/psychiatry interface. The student will learn about: the psychodynamic and personality issues at work in the medically ill, psychotropic drug dose/effects/interactions relevant to medical diseases, and the role of psychiatric evaluation in informed consent and capacity determination.

Learning Methods

The student will receive direct supervision from staff and residents in his/her patient contacts and write-ups. There will also be specific reading material assigned to the student. Primary means of instruction will be case discussion. The student will attend the weekly consultation-liaison conferences and may participate in educational/clinical liaison activities in the geriatric unit. The student will also have the opportunity to observe staff and residents in patient/staff interactions. The student will attend formal didactic seminars at the WSU Department of Psychiatry (Tuesday afternoons from noon to 5PM at Elizabeth Place), and other lectures may also be included.

Evaluation

Pass/Fail grade to be based on write-ups and staff and patient interactions.

Prerequisites

Satisfactory completion of psychiatry clerkship in third year.

Specific Contact Info:

Samantha Holcombe, student coordinator, samantha.holcombe@wright.edu

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
This Course is identical to: PYC 808  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018

PYC 817
Mental Health Services for Homeless Youth and Young Adults

**Time & Location**

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4-week rotation, Daybreak, Dayton, Ohio

The schedule will be Monday-Friday, approximately 9 am - 5 pm most days, with some Wednesday evening activities. Minimum expected time would be approximately 50 hours/week with the development of education programs for the youth.

Lead time required to DROP/ADD elective - 1 month

Lead department: Psychiatry
Supporting department: Family Medicine

**Full-block.**

**Course Director(s) & Faculty**

Bethany Harper, M.D., Course Director, Professor, Department of Psychiatry
Cindy Minton, MSW, LISW-S, LICDC, ACSW, Clinical Director, Daybreak, Inc.
Matt West, LPCC
Jill Bucaro, LISW-S

**Course Description**

The student will be involved with the mental and physical health services at Daybreak, Inc., (an agency in Dayton, Ohio that provides age-appropriate housing programs with comprehensive supportive services including outreach, prevention, education, hotline, mental health services, information and referral and other related services) for children and youth who runaway, are pushed out of their homes, at risk of abuse or neglect, homeless, or at immediate risk of homelessness. Students will assist in mental health and physical health screening and consultations, assist social work staff in completing mental status exams and psychosocial mental health assessments for youth, develop and present mental and general health education programs, and participate in various therapeutic activities for the youth, including life skills training and youth development activities.

Time will be spent updating the documentation system for Daybreak and coordinating with staff to ensure proper follow-up. The student will serve as a liaison between youth and community physicians by connecting clients with appropriate outpatient providers, accompanying them to appointments, and providing education to clients regarding medical conditions and treatment plans. The student will work to obtain and maintain adequate supplies for Daybreak’s medical clinic, using local donations and a small budget through Daybreak.

**Course Content & Objectives**

1. Finalize documentation system for Daybreak medical evaluations.
2. Will perform mental health assessments with adolescents and young adults, report findings, and develop differential diagnoses and treatment plans.
3. Serve as a liaison between Daybreak clients and community physicians.
4. Assist staff in reducing inappropriate emergency room visits.
5. Assist staff in creating medical crisis plans for those clients with chronic disease and provide education for staff as needed.
6. Develop and present weekly health/mental health educational programs, including but not limited to the topics of personal hygiene, obesity, psychotropic medication, sexual and reproductive health, healthy pregnancy and childbirth preparation, infancy and early childhood well being, and parenting skills.
7. Participate in various therapeutic activities for the youth, including positive youth development activities.
8. Assist staff in the review of health history questionnaires.
9. Develop a greater understanding of the challenges of the homeless youth population and the services available in the Dayton area.
10. Learn about evidenced-based practices for treatment of youth with histories of trauma, and participate in outcome evaluations.

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Learning Methods

1. Direct supervision from attending staff and Daybreak professional staff.
2. Observation of student conducting live patient interviews.
3. Observation of student conducting health-focused group sessions with clients.
4. Participation in treatment team discussions for Daybreak clients.
5. Participation in community activities with the youth, with reflection exercises focused on prompts regarding population health.

Evaluation

The student will be evaluated through direct observations of his/her clinical interactions with patients, through staff reviews of his/her recommendations, and presentations, as well as interactions with other professionals. Grade is Pass/Fail.

Prerequisites

Successful completion of third year clerkships.

Specific Contact Info:

Samantha Holcombe, Student Coordinator, samantha.holcombe@wright.edu

PYC 818  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
Forensic Psychiatry

Course Description

The student will work on an inpatient forensic psychiatry unit at Summit Behavioral Healthcare (SBH), a 291-bed psychiatric hospital located in Cincinnati and operated by the Ohio Department of Mental Health & Addiction Services. The elective will combine clinical treatment of severely mentally ill criminal defendants and offenders with participation in expert psychiatric evaluation for the Courts. The student will follow patients concurrently with an attending forensic psychiatrist, and will also have opportunities to observe or perform psychiatric tasks under the supervision of a forensic psychiatry fellow. The student will participate in criminal forensic cases involving Incompetence to Stand Trial (IST) and Not Guilty by Reason of Insanity (NGRI), as well as civil forensics. The student will be expected to conduct diagnostic evaluations on new admissions and/or established inpatients. He/she will prepare written admission, annual and discharge reports as well as daily or periodic progress reports. The student will participate in treatment planning and psychopharmacologic care. The student will gain experience in individual and/or group Restoration to Competency (RTC) treatments. The student will observe evaluations of eligibility for civil commitment, and will attend the Hamilton County Probate Court as it makes commitment determinations. The student will participate in Forensic Review Team examinations of patients recommended for increased freedom of movement. The student will become versed in portions of the Ohio Revised Code that govern civil commitment and criminal prosecution of mentally ill offenders. This elective will take place Monday-Friday, approximately 8 am-5 pm.

Course Content & Objectives

Upon completion the student will be able to:

a. Perform an initial evaluation of psychiatric inpatients through interview, mental status, and physical examination.

b. Perform forensic psychiatric examinations of patients admitted because of IST or NGRI.

c. Perform actuarial risk assessment (e.g., HCR-20).

d. Prepare an application for civil commitment followed by a mock testimony experience.

Learning Methods

The student will receive direct supervision from staff and residents in his/her patient contacts and write-ups. There will also be specific reading material assigned to the student. Primary means of instruction will be case discussion. The student will also have the opportunity to observe staff and residents in patient/staff interactions. The student will attend formal didactic seminars at the WSU Department of Psychiatry, 12pm-5pm at Elizabeth Place on Tuesday afternoons.

Evaluation

Pass-Fail grade to be based on write-ups and staff and patient interactions.
Prerequisites
Satisfactory completion of third year clerkships

Specific Contact Info:
Samantha Holcombe, Student Coordinator, samantha.holcombe@wright.edu

PYC 819       Last Dept. Review Date: 12/12/2018       Last Catalog Modification: 12/12/2018
Introduction to Psychotherapy

**Time & Location**
4 weeks; Elizabeth Place

Please contact Psychiatry Coordinator for approval: samantha.holcombe@wright.edu

**Clinical Elective**

**Non-Surgical Elective**

**Capacity:** Min 3  Max 5  Drop/Add Days: 30

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**Course Director(s) & Faculty**

Allison Cowan, M.D., Assistant Professor, Course Director

Randon Welton, M.D., Associate Professor

**Course Description**

While the 3rd year psychiatry clerkship provides a foundation of understanding psychiatric diagnoses and psychopharmacology, psychotherapy is not taught in-depth. This elective will fill that gap for those medical students planning to enter psychiatry, by providing an overview of psychotherapy. This elective is primarily for those students who will be future Psychiatrists.

**Course Content & Objectives**

The student will be able to:

1) Understand the basic theories of two psychotherapy treatment modalities: psychodynamic psychotherapy and cognitive behavioral therapy.
2) Complete an in-depth psychiatric diagnostic evaluation.

**Learning Methods**

The student will attend small group interactive didactics on the theoretical basis of the psychotherapies, focusing on psychodynamic psychotherapy and cognitive behavioral psychotherapy.

Faculty members will demonstrate their own work in the modalities, with the sessions focusing on the techniques and interventions in the work with the patient.

A diagnostic interview will be done by the medical students, with these sessions being videotaped. Faculty and students will review the tapes together, examining the patient-physician relationship and psychotherapy techniques.

Selected readings on psychodynamic psychotherapy and cognitive behavioral therapy will be required. An academic paper, on a topic in psychotherapy that interests the student and approved by faculty, will be required.

The students will also attend Department of Psychiatry Grand Rounds and resident tutorials on Tuesday afternoons focusing on psychotherapy, psychiatric diagnoses, and treatment modalities. Tuesday afternoons from 12pm-5pm.

**Evaluation**

The student will be evaluated through direct observation of clinical skills, motivation, and enthusiasm, as well as the required paper. Feedback will be given throughout the experience. Grade will be Pass/Fail.

**Prerequisites**

Successful completion of the 3rd year psychiatry clerkship.
This elective is for 4th year medical students planning to enter psychiatry residency. Each student is required to complete an essay which will determine acceptance into the elective.

Specific Contact Info:
Samantha Holcombe, Student Coordinator, samantha.holcombe@wright.edu

PYC 828  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/2/2019
Only Open to WSU Students

Academic Medicine - Psychiatry

PYC 880

Time & Location

Longitudinal elective, with a set of interactive teaching sessions at various points throughout the year, with about 10-15 hours of time commitments. The remainder of the time will be focused on educational activities and direct teaching as outlined by the student and course director, with a minimum of 160 hours over the the course of the elective, which ends May 1.

REQUIRES PRIOR APPROVAL FROM COURSE DIRECTOR TO BE ENROLLED.

PROJECT PLAN MUST BE IN THE WORKS WITH DIRECTOR OR THEIR DESIGNEE PRIOR TO APPROVAL.

Course cannot be ranked during online scheduling process- will be manually added to schedule by Student Affairs.

Full-block.

Course Director(s) & Faculty

Bethany Harper, M.D., Assistant Professor, Course Director

Course Description

Medical education depends upon residents to be teachers of medical students; however prior to entering residency, little formal education exists regarding teaching skills. This elective will help prepare students for their future teaching role. Under the supervision of experienced educators, students will begin teaching junior medical students. While there will be a formal curriculum that includes instructional design principles, giving formative feedback, and techniques of clinical “bedside” teaching, students will conduct teaching experiences in a variety of settings. These settings may include, but are not limited to interviewing and physical exam sessions in ICM, TBL sessions in courses and/or clerkships, or other small group teaching. Additionally, students may assist in the development of on-line tutorials, new educational materials, assessment activities and integrative sessions. Students will work primarily with one course director and outline an individualized elective, beginning with the creation of their own specific educational objectives for this elective.

Course Content & Objectives

Participants in this elective will be able to:
1. Describe basic principles of significant learning and instructional design.
2. Develop educational objectives for their own specific learning goals.
3. Utilize the principles of giving effective feedback through introduction to clinical medicine or other clinical supervisory experiences.

Students may be involved in a variety of teaching experiences, including but not limited to:
1. Small group leaders for ICM interviewing sessions
2. Preceptors for ICM Physical Examination sessions
3. Lead ICM-2 case discussions
4. Develop and/or assist in TBL’s pre-clinically and/or clinically
5. Develop educational materials for on-line tutorials or other technology-driven modalities
6. Facilitate small group teaching activities
7. Assist in the development of assessment activities, possibly including writing USMLE style questions, OSCE cases, and other self-assessment modules
8. Provide direct observational teaching and feedback on clinical clerkships
9. Facilitate Step 1 review sessions for current medical students.

Depending on the nature of the individualized elective plan, a final product (i.e., on-line tutorial) may also be required.

Learning Methods

Wright State University Boonshoft School of Medi
Evaluation

Students are expected to attend all class sessions and complete all assignments, based on their own personalized learning objectives. Evaluation will be based on participation, effort, and the quality of completed assignments. Students will be expected to self-assess their teaching. Additionally, faculty who will generate written and/or verbal feedback will critique student work.

Grading is Pass/Fail

Prerequisites

Completion of 3rd year Clerkships

Specific Contact Info:

Bethany Harper, bethany.harper@wright.edu
Samantha Holcombe, Student Coordinator, samantha.holcombe@wright.edu

This Course is identical to:

CMH 811
CMH 810

CMH 810

Last Dept. Review Date: 12/12/2018
Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Introduction to Radiology  

Time & Location  

2-week rotation, Kettering Medical Center. Minimal contact time will be 40 hours per week.

1 student per Block

Final Approval pending availability at KMC.

Clinical Elective  Non-Surgical Elective

Capacity: Min 1  Max 1  Drop/Add Days: 60

Kathleen Mayer, Student Coordinator, Kathleen.Mayer@KetteringHealth.org
Sherry Reker, BSN, CRN, RN  
Medical Imaging Education Coordinator

Course Description

Course Content & Objectives

a. Know and understand basic indications for diagnostic imaging
b. Introduction to noninvasive vascular imaging including Doppler ultrasound, CTA and MRA.
c. Learn the basic indications for, methodology of, and possible complications associated with commonly performed IR procedures such as image-guided needle biopsy and drainage, diagnostic angiography, balloon angioplasty and stent placement, venous access, hemodialysis access, arterial embolization, and percutaneous vertebroplasty
d. Enhance the student’s knowledge of basic IR techniques and contrast agents

Learning Methods

1. Medical Imaging interpretation with the staff radiologist
2. Daily IR service participation
3. Reading assignments and case presentation

Evaluation

The staff radiologist will evaluate the student on a Pass/Fail scale. The evaluation will be based on daily service participation, the understanding of IR procedures and reading assignments, and case presentation.

Prerequisites

Completion of third year curriculum

Specific Contact Info:

Kathleen Mayer, Student Coordinator, Kathleen.Mayer@KetteringHealth.org

RAD 806  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf  144
Only Open to WSU Students
Radiology

**RAD 810**

**Time & Location**

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Dayton Veteran’s Medical Center Department of Radiology

4 week rotation, Monday - Friday, 8:00am - 4:30pm.

**Clinical Elective**

**Non-Surgical Elective**

**Capacitv**: Min 1 Max 1  **Drop/Add Days**: 30

**Full-block.**

**Course Director(s) & Faculty**

Margaret Phillips, M.D.

**Course Description**

Imaging is fundamental in the diagnosis and management of most disease processes. As imaging achieves molecular and microenvironmental capabilities, understanding the pathophysiology of disease processes is increasingly important. Understanding the framework of modern diagnostic imaging and nuclear medicine, and the therapeutic branches of interventional radiology and radiation therapy, is therefore vital to patient care. This course will provide the medical student with an overarching introduction to each of these radiology areas. The four weeks will be equally divided between Diagnostic Radiology, Nuclear Medicine, Interventional Radiology, and Radiation Therapy, providing a one-week immersion for each experience.

**Course Content & Objectives**

The overarching goal is for the student to understand the benefits of the various elements of radiology and explore its integral place in healthcare. Specifically, students will

a. Develop an understanding for ordering imaging studies and procedures, and learn about the interpretations of such studies and procedures.

b. Observe the performance of imaging studies and procedures, and learn about the interpretations of such studies and procedures.

c. Review the basic science, anatomy, pathophysiology and clinical diagnosis in relation to radiographs and other studies.

**Learning Methods**

1. Observation and interaction with diagnostic and therapeutic radiologists and technologists.

2. Readings materials.

**Evaluation**

1. Grading will be Pass/Fail. Assessment will be based on attendance, participation, and demonstrated interest in learning.

2. Completion of BSOM Clinical Evaluation form.

**Prerequisites**

Completion of 3rd year clerkships

**Specific Contact Info:**

Margaret Phillips, M.D., VAMC coordinator, margaret.phillips1@va.gov

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Only Open to WSU Students

IHI Open School Basic Certificate in Quality & Safety

**Course Director(s) & Faculty**

Mary White, Ph.D. Course Director

**Course Description**

This course will provide students with exposure to the evolving system of health care delivery. Developed by the Institute for Health Care Improvement, [ihi.org/Pages/default.aspx](https://ihi.org/Pages/default.aspx), this certificate program focuses on five areas: improvement capability, patient safety, person & family-centered care, leadership, and triple aim for populations. IHI is an independent, not-for-profit organization that focuses on identifying health care practices that are safe, effective, patient-centered, timely, efficient, and equitable. Through innovation and research development, IHI has collaborated with organizations worldwide to create online learning opportunities that give students and health care professionals the skills and knowledge to become change agents in health care improvement (See Catalog Summaries Appendix, below).

This elective will include completion of 13 interactive video modules that will earn the student a Basic Certificate in Quality & Safety. The videos are each 1-2 hours in length; combined they are estimated to take approximately 19 hours of run time on normal speed. Each module requires students to master the material and pass post-course exams with a score of 80% or better. In addition, supplementary resources are provided for each module. According to IHI, level of mastery directly correlates with time spent on each online module, use of additional resources, and exam scores. For this reason, students will be expected to review the supplementary materials and identify a bulleted list of at least five significant findings from these materials per module. Students must also present the course director with test scores and the certificate awarded from IHI Open School after completion of all required courses.

In addition, students will write five, 2-3 page case descriptions of circumstances they have witnessed that reflect some aspect of health systems management. These should be examples that either worked well or could use systems improvement, and include descriptions of the opportunities and challenges to identifying and implementing improvement.

**Course Content & Objectives**

Earning the Basic Certificate in Quality and Safety boosts your knowledge and skills - and proves to employers you’re serious about changing health care for the better. To receive the Certificate, you must complete the following 13 Open School courses: QI 101-QI 105, PS 101-105, TA 101, PFC 101, and L 101.

Dr. White will discuss details.

1. Understand the size and scope of the problem of medical errors and patient harm.
2. Learn the theory and fundamentals of the discipline of patient safety.
3. Learn various methods of quality improvement.
4. Consider the integration of the fundamentals of patient safety in clinical practice.
5. Understand the importance of moral agency in health care.
Learning Methods
1. Complete online coursework from the IHI website (50%, 25-40h)
2. Review the supplementary resources associated with each course module and identify 5 (minimum) findings of interest for each module (30%, 25-35h)
3. Write five case studies, 2-3 pages each (20%, 10-15h)

Evaluation
1. Successful completion of the Basic Certificate in Quality & Safety (50%)
2. Submission of five (min.) significant findings for each module (25%)
3. Completion of five written case studies (25%)

The BSOM evaluation will be completed as well.

Prerequisites
Completion of 3rd year Clerkships

Specific Contact Info:
Mary White, Ph.D.

SMD 806  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Medicine and the Holocaust  
SMD 810

Time & Location

Offered longitudinally, meeting 1-2 times per block from August-May. Seminars will generally be held in White Hall with interspersed visits to clinical facilities, museums, and commemorations.

SPECIAL NOTE: This is a longitudinal elective; as such, it runs simultaneously with other courses. Keep in mind:
(a) You may not skip any required clerkship time for this elective (J-I, Neurology, Emergency Med)
(b) Any time missed for any other elective month must be cleared with your supervisor in advance; they may require you to make up the hours missed.
(c) You may miss only 2 classes (excused absences); 3 classes missed may mean failure of the course, even if the last class is in April or May before graduation. All absences must be cleared with the course director. Since this class is discussion-based, you may, with special permission, be able to attend remotely via Skype or Google video or Facetime etc.

Full-block.

Non-Clinical Elective  
Non-Surgical Elective  
Capacity: Min 1  
Max 20  
Drop/Add Days: 30

Course Director(s) & Faculty

David B. Shuster, M.D., Course Director

The Faculty is comprised of a diverse group including Holocaust Survivors, Liberators, Physicians, Filmmakers, and Professors from other fields.

Course Description

The overriding goal of this course is for you to take meaningful action, as a product of your participation in the course, to make a contribution to the world.

You will have the opportunity to participate in From Ashes to Action: The Holocaust Humanity Project.

The Holocaust Humanity Project is a self-designed means by which to channel your unique talents and passions into an action that the world, even a small part of it, appreciates.

Through the study of medicine and the Holocaust we will learn about humanity pursuing the extremes of what we label good and evil, and the factors that led to those individual choices.

We will attempt to understand the zeitgeist of that time and apply that understanding to the present by grappling with the issues of then, and now.

Most importantly, you will learn to develop and express your views in a cohesive, communicable manner designed to affect change and turn thought into action.

Classes will generally begin with student presentations of their papers regarding the class presentation question, followed by a seminar with a guest speaker, then student led discussion of assigned readings and film viewings.

Course Content & Objectives

History of Medicine—Holocaust studies
  Research Ethics
  Personhood and Ethical Theory
  Healthcare Economics
  Disability and Medicine

Wright State University Boonshoft School of Medi
Learning Methods

- Reading assignments and discussion
- Film attendance and discussion
- Participation in off-site activities
- Reflection Writing

Evaluation

Students are expected to attend and participate in all class sessions. Evaluation will be based on attendance, participation, a short reflection paper, and a written journal of daily activities. Grade – Pass/Fail.

Prerequisites

Good standing in Year 4; successful completion of SEIM.

Specific Contact Info:

Dr. David Shuster, david.shuster@wright.edu

Student Coordinator, som_scheduling@wright.edu

This Course is identical to: SMD 810

Last Dept. Review Date: 12/12/2018

Last Catalog Modification: 12/12/2018

SMD 811
SMD 805
Only Open to WSU Students

Medical Education Research

SMD 811

Time & Location

Offered longitudinally, meets monthly from July/August to April/May, plus research/educational hours. 160 hours. (Specific meeting time is flexible, depending on student rotation schedule.) Students who are interested should contact Dr. Amber Todd or Dr. Jeanette Manger prior to enrollment.

Non-Clinical Elective    Non-Surgical Elective  Capacity: Min 1  Max 6  Drop/Add Days: 30

Full-block.

Course Director(s) & Faculty

Dr. Amber Todd
Dr. Jeanette Manger

Course Description

The primary goal of this elective is to provide students with a hands-on understanding of medical educational research in general, how medical education research is conducted, and to participate in a medical education project with a faculty mentor at the Boonshoft School of Medicine. This longitudinal elective is designed for students who may be interested in academic or research careers in medical education, who are interested in teaching in academics, and/or who would like to develop skills of teaching and research prior to residency. The elective will have three main components: (1) reading and discussion related to nuts and bolts of medical education research, including formulating research questions, literature reviews, research design and methods, data management, collection, storage and analysis, ethics, institutional review boards, writing for publication, reviewing abstracts and articles (2) reading and discussion of controversies or cutting-edge concepts in medical education research: when possible students will attend and participate in the Medical Education journal club and BSOM Scholarship of Teaching and Research in Medical Education (STReME); (3) participation in a research project with a faculty mentor at BSOM: the student(s) will participate directly in educational research, with the goal of a poster or presentation at BSOM forum (Medical Student Research Symposium, Curriculum Committee Meetings, etc) or at a regional or national conference. An additional goal is that the project is eventually published with the student having co-authorship along with the faculty member and other investigators on the project.

Course Content & Objectives

Participants in this elective will have opportunities to do the following:
1. Broadly review the medical education research literature and develop the skills to conduct basic medical educational research from a research idea to a published study;
2. Participate in a medical education journal club where controversies in medical education are discussed and debated;
3. Participate directly in a faculty supervised medical education research project, with the expectation of one of or more of the following: publication, presentation, or poster. The student will be a key member of a medical education research team;
4. Learn about the institutional review board process and obtain Collaborative Institutional Training Certificate (CITI) (a required program about research ethics that all investigators are required to complete);
5. Learn about medical education research design, methods, and statistics; and
6. Depending on the medical education research project, students will have opportunities to do one or both of the following:
   a. Through readings and hands on experience learn the components of creating a poster. Student will work directly with a faculty on creating a poster and/or
   b. Through readings and hands on experience, learn the components of writing a scholarly paper. Student will work directly with faculty on writing a paper for publication.
Learning Methods

- Reading assignments
- Formal and Informal discussion
- Student presentations
- Participation in journal club
- Research, including research team participation

Evaluation

Students are expected to attend and participate in all journal clubs, didactics, and research experiences. Evaluation will be based on attendance, participation, and presentations. Grading is Pass/Fail.

Prerequisites

None

Specific Contact Info:

Dr. Amber Todd, amber.todd@wright.edu
Dr. Jeanette Manger, jeanette.manger@wright.edu

This Course is identical to: SMD 811

Last Dept. Review Date: 12/12/2018

Last Catalog Modification: 12/12/2018

SMD 810
SMD 805
Only Open to WSU Students  

Clinical Trials Research Alliance  

Time & Location  

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Full-block.

Course Director(s) & Faculty  

Loren Friedman, MS, Director of Clinical Trials, CTRA, Co-Director  

Course Description  

This elective is designed to provide the student with a basic working knowledge and understanding of the various administrative and clinical aspects of conducting large scale clinical research trials in the clinical setting. It is ideally suited for medical students who intend to incorporate clinical research into their practices, and for students intending to pursue a career in academic medicine. Students will have the opportunity to be involved in the process of launching clinical trials in the practice setting, from acquisition of clinical trials, executing necessary agreements and contracts between sponsor and investigators, budgeting for a clinical trial, obtaining IRB approval, compliance oversight, tracking of clinical trial activity, subject recruitment, subject enrollment. At the end of this elective, students will have the necessary background and experience to participate in a clinical trial with appropriate support and supervision.

Course Content & Objectives  

At the end of this elective, students will be able to describe and have a basic working knowledge of:

1. How new drugs and devices are brought to the market. The role of industry, the Contract Research Organizations (CROs), Investigators (Principal and Sub-Investigators), Clinical Research Coordinators (CRCs), Study Monitors, Data Safety Evaluation Committees.
2. How clinical trials are acquired
3. How to assess the feasibility of conducting a given clinical trial.
4. How to review and execute Non-Disclosure Agreements and Contracts between Sponsors and Investigators. How to monitor compliance during the conduct of a clinical trial. How to bill properly (sponsor vs insurance carrier) for services rendered during a clinical trial.
5. How to negotiate budgets for clinical trials.
6. How to prepare IRB submissions for clinical trials. Understand how central IRBs function and how they interact with local IRBs. Understand the advantages and disadvantages of both central and local IRBs. Understand the role of Hospital Research Review Committees.
7. The importance of regulatory requirements including FDA form 1572, HIPAA, audits.
8. How to recruit subjects into a clinical trial.
9. How to obtain proper informed consent.
10. How to accurately document progress along a clinical trial protocol. Understand the differences between source documents and case report forms.
11. How to properly conduct a subject (patient) encounter within a clinical trial.
12. The financial aspects of conducting a clinical trial, including the invoicing of sponsors, payments to institutions and investigators.
13. The ethical issues in human subjects research including how human subject protection is maintained in clinical trials where subject competency is potentially compromised by illness (e.g., stroke patients) or other circumstances.
14. The costs and timeframe of bringing new drugs and devices to the market and understand newer methodologies for enhancing the efficiency of clinical trial research (e.g., adaptive clinical trials).

**Learning Methods**

Students will work one on one with member of the CTRA team, medical humanities faculty, clinical research coordinator and investigators and will receive reading materials pertaining to each of the key learning objectives outlined above. Student will also shadow CTRA team members as they work through actual procedure for moving a clinical trial through the process of an acquisition, approval, budgeting, contracting, subject recruitment and enrollment, and subsequent monitoring of compliance. Students will attend CTRA team meetings and Executive Committee meetings to learn about how information is shared an how trials are tracked. Finally, students will spend time with CTRA Clinical Coordinator and Investigators as actual trial participants are engaged both in the inpatient and outpatient clinical settings.

**Approximate Time Allocations:**
- Human Subjects Protection: 2 days
- Trial Acquisition and Regulatory Issues: 2 days
- Trial Budgeting and Subject Recruitment: 2 days
- Compliance in Clinical Research: 3 days
- Financial Aspects of Clinical Trial Research: 3 days
- The Subject (Patient) Encounter: 6 days
- The Future of Clinical Research: 2 days

**Evaluation**

The student will be graded on a simple Pass/Fail scale. Factors to be considered in the determinations of a final grade will be attendance, participation, evidence of reading the materials handed out to the students, and a final interview with the course director where one or more of the covered aspects of clinical research will be discussed with the student to access understanding and acquisition of new knowledge.

**Prerequisites**
- Completion of 3rd year clerkships
- CITI Training

**Specific Contact Info:**

Paula Esken, Assistant to the CTRA Director of Operations
4035 Colonel Glenn Hwy, Suite 270
Dayton, OH 45431
Phone: 937-705-1081
Fax: 937-705-1095

SMD 815 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 12/12/2018
Race Sex and Gender in Medical Education

Only Open to WSU Students

2 week elective offered in 14a.

Half-block.

Non-Clinical Elective  Non-Surgical Elective

Capacity: Min 3  Max 10  Drop/Add Days: 30

Course Director(s) & Faculty

Mary White, Ph.D. Course Director
Brenda Roman, M.D., Faculty

Course Description

This is a two-week (equivalent to 80 hours). Class will meet three hours/day with the rest of the time spent either on research or visiting relevant individuals and organizations in the Dayton area. These may include the Underground Railroad Museum and the Museum of African American History at Wilberforce College, and meetings with local experts on race and gender in health care.

Throughout the history of this country, social, political, and cultural norms have been heavily biased toward the interests and needs of Caucasians, specifically, heterosexual Caucasian men. Likewise, the medical profession has long been dominated by Caucasian men, whether as physicians, researchers, or administrators, and the research on which clinical practices are based and drugs are developed relies heavily on studies of largely young, mostly Caucasian males. Until recently, little was known about why help-seeking behaviors, presenting symptoms, and treatment outcomes vary for people of different races, sex, and genders; indeed the assumption was that such differences did not exist. Today that is no longer the case. A wealth of studies indicate race, sex, and gender are important determinants of health; that historical, psychological, physiological, political, and social factors contribute to when and why people of difference races, sex, and gender seek medical attention and how they respond to treatment. Yet these differences are often neglected in medical education.

This elective focuses on identifying and examining these differences, with goals of better understanding how to anticipate and respond to these difference in clinical practice and other professional activities. In the first two sessions the course director will provide historical context for this course and a broad overview of related research to date. In subsequent sessions, students will be expected to identify and present a topic they feel merits attention in the medical curriculum.

How time will be used: Class time: 30 hours, research, 30 hours, community outreach, 20 hours.

Course Content & Objectives

Participants in this elective will be able to:

1. Describe why medical practice has historically been based on white male physiology.
2. Describe how social, historical, and political factors related to race, sex, and gender have impacted medical training, medical practice, and medical research.
3. Discuss a range of topics, with supporting data, in which race, sex, and gender contribute to differences in help-seeking behaviors, clinical symptoms, responses to treatment, and treatment outcomes.
**Learning Methods**

1. Reading assignments
2. Topic selection – development of criteria
3. Literature review for each topic
4. Formal class presentations and journal club discussions (exact number TBD)
5. Community engagement

**Evaluation**

1. Students are expected to attend all class sessions and complete all assignments. After the first two sessions, topics chosen for study will be based on students' interests and learning objectives.
2. Evaluation will be based on class participation and the quality of completed assignments.
3. The Course Director will provide ongoing feedback and complete the BSOM Year 4 elective evaluation. Grade is Pass/Fail

**Prerequisites**

Completion of 3rd year clerkships
Only Open to WSU Students

Pain Management and Addictions Medicine

Course Description
Dayton now leads the nation in the per-capita rate of death due to opioid overdose. Given the prevalence of substance abuse in our region, all physicians, regardless of specialty, need to know what their role is in prevention and treatment of substance abuse disorders. This elective will provide a general overview of the causes and impact of the current opioid epidemic, effective pain assessment and management, and the fundamentals of addictions medicine. Each week, participating students will rotate through one of four treatment sites in the area, with 1/2 day/week devoted to didactics. Scheduled activities will be supplemented with assigned readings and videos and a research project for students to complete on their own time.

Course Content & Objectives
Students who complete this elective will be able to:
1. Describe the epidemiology and impact of narcotics abuse in Montgomery County
2. Understand basic assessment and medical management of chronic pain; risks and benefits of opioids
3. Administer Narcan/Naxolone for drug overdose
4. Describe counseling and treatment alternatives for substance abuse addictions
5. Identify local resources for addictions treatment
6. Describe the risks, assessment, and management of substance abuse disorders in your chosen specialty area.

Learning Methods
1. Drive-around with Dayton MMRS officer

Mary White, Ph.D. Course Director
Colleen Hayden, MS, Academic Affairs (administrative contact)

Participating Faculty:
Gideon Adegbile, MD
Dale Block, MD, MBA, CPE, FABFM
David Gerstner, MMRS
Franklin Halley, MD
Stuart Leeds, MD
Randy Marriott, MD
Colleen Smith, RN
Christina Waite, MD
Phil Whitacre, MD

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
2. Rotation through four placement facilities (change weekly)
   TCN Xenia
   Samaritan Behavioral Health (two sites)
   Nova House
3. Half-day weekly didactics
4. Assigned readings
5. American Society of Addictions Medicine (ASAM): four brief on-line videos
6. Individual research/presentation on addictions management in students' selected specialties

Evaluation
1. Complete BSOM evaluation
2. Attendance, engagement, and professionalism at all scheduled activities
3. Completion of assigned readings and videos
4. Quality of research presentation

Prerequisites
Successful completion of Y3 clerkships.

SMD 818  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Academic Medicine - General / Academic Affairs

SMD 880

Time & Location

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REQUIRES PRIOR APPROVAL FORM COURSE DIRECTOR TO BE ENROLLED.

PROJECT PLAN MUST BE IN THE WORKS WITH DIRECTOR OR THEIR DESIGNEE PRIOR TO APPROVAL.

Course cannot be ranked during online scheduling process- will be manually added to schedule by Student Affairs.

Maximum 4 students

Course Director(s) & Faculty

Gregory Toussaint, M.D., Course Director

Full-block.

Course Description

Medical education depends upon residents to be teachers of medical students; however prior to entering residency, little formal education exists regarding teaching skills. This elective will help prepare students for their future teaching role. Under the supervision of experienced educators, students will begin teaching junior medical students. Curriculum includes instructional design principles, giving formative feedback, and techniques of clinical “bedside” teaching, and students will conduct teaching experiences in a variety of settings. These settings may include, but are not limited to, interviewing and physical exam sessions in Year 1 Clinical Medicine, case discussion sessions, or other small group teaching. Additionally, students may assist in the development of on-line tutorials, new educational materials, assessment activities and integrative sessions. Students will work primarily with one course director and outline an individualized elective, beginning with the creation of their own specific educational objectives for this elective.

Course Content & Objectives

Participants in this elective will be able to:
1. Describe basic principles of significant learning and instructional design.
2. Develop educational objectives for their own specific learning goals.
3. Utilize the principles of giving effective feedback through Clinical Medicine (CM) or other clinical supervisory experiences.

Students may be involved in a variety of teaching experiences, including but not limited to:
1. Small group leaders for CM interviewing sessions
2. Preceptors for CM Physical Examination sessions
3. Lead CM case discussions
4. Develop educational materials for on-line tutorials or other technology driven modalities.
5. Facilitate small group teaching activities
6. Assist in assessment activities, possibly including writing USMLE style questions, OSCE cases and other self-assessment modules

Learning Methods

Reading assignments
Formal and Informal discussion
Objective Standardized Teaching Experiences (OSTEs)
Participation as an educator, who both gives feedback, as well as receives feedback

Evaluation

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Evaluation will be based on participation, effort, and evaluation of assigned teaching duties. Students will be expected to self-assess their teaching.

Grading is Pass/Fail

Prerequisites

Completion of M3 Clerkships

Specific Contact Info:

Student Coordinator, som_scheduling@wright.edu

SMD 880  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Urology

**Time & Location**

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4-week rotation in private offices of faculty members and community-based hospitals in the Dayton community.

Lead time required to DROP/ADD elective - 45 days.

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**Course Director(s) & Faculty**

Michael Yu, M.D., Director; Clinical Assistant Professor  
Mark Monsour, M.D.; Clinical Assistant Professor  
Toby Lees, M.D.; Clinical Assistant Professor  
Urology Clinical Faculty

**Course Description**

This course will instruct medical students in all aspects of urologic care ranging from outpatient management of urinary problems to inpatient management and surgery. All aspects of urology will be covered - stone disease, infections, adult and pediatric anatomic problems, and various malignancies. Outpatient and Inpatient work will be at various hospitals in the Dayton, Ohio area and surrounding community facilities, and preceptor offices.

**Course Content & Objectives**

Students completing this course will be able to discuss the following:

a. infections and inflammations of the urinary tract  
b. benign and malignant neoplasms of the urinary tract  
c. benign prostatic hyperplasia  
d. stone disease  
e. trauma  
f. diagnostic procedures  
g. urinalyses  
h. pyelograms  
i. catheterization

**Learning Methods**

a. review the literature  
b. lectures and conferences  
c. in-patient rounds with faculty  
d. out-patient visits  
e. visits to faculty private offices  
f. experience in assisting in surgery  
g. histories and physicals on selected patients

**Evaluation**

Wright State University Boonshoft School of Medicine  
https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Oral examination of competency by faculty. Grade: Pass/Fail

Prerequisites
Completion of the Year III Surgery Clerkship.

Specific Contact Info:
Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

This Course is identical to: SUR 814

Last Dept. Review Date: 12/12/2018

Last Catalog Modification: 12/12/2018

SUR 47
Introduction to Basic Pediatric Surgery

**SUR 819**

**Time & Location**

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2-week rotation, Dayton Children’s Hospital

- Lead time required to DROP/ADD elective - 45 days.
- Influenza vaccination required for Blocks 3-10.

- **Clinical Elective**
- **Surgical Elective**

**Capacity:**

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**Half-block.**

**Course Director(s) & Faculty**

- Arturo Aranda, M.D., Assistant Professor, Education Director
- David P. Meagher, Jr., M.D., Professor and Medical Director
- Jeffery S. Christian, M.D., Clinical Associate Professor
- Sean J. Barnett, M.D., Associate Professor

**Course Description**

a. Student will be integrated into the clinical pediatric surgery service.

b. Follow a patient from Clinic through pre-op preparation of patient and parents, through surgery and finally post-op follow-up in Clinic or Office.

c. Anatomy, physiology, pharmacology and pathology of pediatric surgery and anesthesia for various surgical conditions in children will be discussed.

d. Indications for surgery will be discussed.

e. Student will attend daily service morning rounds.

f. Student will identify and participate in the care of at least on inpatient daily throughout the patient’s hospital course.

g. Student will participate in the operative care of individual and/or service patients.

h. Student will attend outpatient clinic weekly (one-half day clinics)

i. Student may elect to participate in the drafting of a clinical research manuscript for submission in a peer-reviewed journal and/or meeting for presentation.

**Learning Methods**

a. Student will be assigned to a single faculty mentor who will oversee experience

b. Student may elect to alternate between faculty members daily, based upon schedule

c. Student will attend and participate in scheduled didactic teaching endeavors (Mortality and Morbidity conference; Tumor Board, Grand Rounds)

**Evaluation**

Evaluation will be based upon attendance, enthusiasm, initiative, professionalism, organizational skills, and overall clinical performance.

Grade: Pass/Fail

**Prerequisites**

Successful completion of Year III

**Specific Contact Info:**

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
This Course is identical to: SUR 819  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018

SUR 848
Clinical Surgery Research

4-week rotation, private offices of faculty members and community-based hospitals in the Dayton area. Contact hours will be approximately 50 hours per week. Students will be matched with a surgery faculty member according to their interests and the availability of appropriate research opportunities.

Students are required to contact the course director/faculty advisor for approval of the project prior to the start date of elective, at least one month before.

Lead time to DROP/ADD elective - 3 months.

Course Director(s) & Faculty

Priti Parikh, Ph.D., Director
Surgery Faculty

Course Description

Students will have exposure to the performance of clinical or basic research in the hospital or laboratory. It is strongly recommended that students meet with the course director at least three months prior to the rotation. This will help students plan out a research project that can be accomplished during the time frame the student will be serving on the rotation. Both clinical and basic laboratory projects can be performed. Most of these projects can be performed during a one month period of time if sufficient prior planning is carried out. It is the intent of this course to have the student complete the course and prepare a scholarly paper for presentation at a regional or national meeting or for publication. The course will include research projects in General Surgery or Surgical sub-specialties within the Department of Surgery.

Course Content & Objectives

This elective will be carried out by planning with the student the performance of either a clinical or basic science research project. The project will provide an introduction to the involvement of the researcher in active clinical and/or basic research. The student will perform a project consistent with their ultimate career goals that would add depth and breadth to their formal medical school education. This will provide the student with a “first” exposure to the role of the clinician in research.

Learning Methods

A variety of techniques may be used to assist the student in completing their research project. These can include chart reviews, trauma/burn registry reviews, evaluations of prospective clinical trials, and a variety of basic laboratory procedures. Daily contact with the student will be provided through the Biosciences Center at Miami Valley Hospital. Additionally, the student will actively participate in all educational programs of the Department of Surgery during their rotation at Miami Valley Hospital. These include weekly Surgical Grand Rounds, Mortality and Morbidity Conference, Basic/Clinical Science Conference, and Resident Teaching Conferences.

Evaluation

Students will be evaluated during the elective on the basis of observation and the completion of a manuscript suitable for possible presentation at a regional or national seminar or publication in a scholarly journal. Grade will be Pass/Fail.

Prerequisites

Completion of Year III.

Specific Contact Info:

Ana Hernandez, Student Coordinator, alhernande@premierhealth.com
Priti Parikh, Ph.D., Director, priti.parikh@wright.edu

https://bsom.wright.edu/course_catalog/All BSOM Courses.pdf
Only Open to WSU Students

Anesthesiology for the Primary Care Physician

Time & Location

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4-week rotation, Wright-Patterson Air Force Base and other community-based hospitals.

Lead time required to DROP/ADD elective - 45 days.

Course Description

This course is designed to make medical students familiar with the concepts of modern anesthetic techniques with emphasis on:

a. Pre-operative assessment and getting a patient into optimal condition for anesthesia.

b. Application of basic pharmacology to anesthesiology and the maintenance of homeostasis.

c. Technical aspects of management, I.V. lines, positioning and monitoring.

d. Pulmonary care, complications and therapy.

e. The roles of the anesthesiologists in special situations (chronic pain, use of blocks in diagnosis and therapy, intensive care, resuscitation).

Course Content & Objectives

a. Evaluate patients with different system defects with emphasis on suitability for anesthesia, choice of technique, therapy for improving conditions, and particularly being able to discuss the anesthetic risks rationally with the patient as well as communicating salient facts to the anesthesiologist.

b. Be able to apply basic pharmacological knowledge to the maintenance of homeostasis during surgery or prolonged unconsciousness.

c. Demonstrate specific skills - airway establishment:
   1. Endotracheal intubation
   2. Setting up an I.V.
   3. Assess fluid requirements
   4. Care for and monitor the unconscious patient safely

d. Diagnose inadequate respiratory function pre-, intra-, and post-operatively, and prescribe rational management.

e. Discuss the management of chronic pain.

Learning Methods

a. Attendance at pre-operative patient rounds and clinic

b. Attendance in the operating room

c. Attendance in the O.R. and I.C.U.

d. Attendance in the Emergency Room

e. Discussion sessions with semi-formal presentation

f. Selected reading
Evaluation
a. Observation of skills and attitude
b. Daily evaluation through interaction with members of the anesthesia department
c. Grade: Pass/Fail

Prerequisites
Completion of M3 Clerkships

Specific Contact Info:
Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

This Course is identical to: SUR 822  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
SUR 849
Surgical Critical Care - Sub-Internship

4-week rotation, Miami Valley Hospital.

Contact hours will be approximately 50 hours per week. Students are required to be on call no more frequently than once every fourth night during the rotation.

Lead time to DROP/ADD – 45 days

Clinical Elective  Surgical Elective  
Capacity: Min 1  Max 2  Drop/Add Days: 45

Time & Location

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Full-block.

Course Director(s) & Faculty
Mbaga Walusimbi, M.D.
Trauma Faculty

Course Description
Counts as a Sub-Internship or a Non Sub-I Surgery Elective

The Trauma Service at Miami Valley Hospital, a designated Level I Trauma Center, has an average daily census of 35-45 patients with an approx. summer peak of 60-80 patients. To allow continual assessment and care of the patients on the service 24/7, the team has been divided into two shifts. A component of the service is the Surgical Critical Care Rotation experience. Approximately 5-15 patients (summer peak of 20-30) will be care for in the ICU by surgical residents and emergency medicine residents, and a surgical attending intensivists. The average daily caseload for the student will be no more than 3 patients in the ICU.

Course Content & Objectives

The objectives of this elective are to allow the medical students to fully integrate both basic science and clinical medicine while appreciating the spectrum of preoperative evaluation and preparation, operative management, and postoperative care. Experience will include recognizing the various forms of shock and their resuscitation; nutritional assessment and TPN; ventilator management; prevention and treatment of sepsis; and electrolyte balance. Assigned patients will allow the student, in the sheltered atmosphere of the ICU service, to demonstrate their ability in the evaluation, examination and management of the patients, as if they were patient of their own. There is potential for the medical students to observe and learn specific skills including the placement of monitoring catheters including central venous catheters, arterial lines, and Swan-Ganz catheters along with other skills in surgical technique, including suturing ability, minor surgery and flexible endoscopy and bronchoscopy.

Learning Methods

a. Provide care as a member of the surgical critical care team. Be expected to participate in the initial evaluation and ongoing care of patients; write daily progress notes and orders under the supervision of the faculty and/or residents on the service.

b. Attend daily ICU service sign-out at 0600 and again at 1800. Be present in the ICU for daily work rounds and faculty teaching rounds. Use available free time for reading (a reading list will be provided at the beginning of the rotation).

c. Attend weekly Trauma Conference on Thursday at 0645.

d. Attend weekly Surgery M&M on Mondays at 0700

e. Attend weekly Surgery Grand Rounds at KMC on Wednesday at 0700.

f. Attend Tri-Sat CC lecture on Tuesday at 1300.

g. Attend Acute Care Surgery conference on Fridays at 1200.

Evaluation

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Students will be evaluated throughout the rotation by the faculty during daily rounds (presentations and procedures).

Grade: Pass/Fail

**Prerequisites**
Completion of third year curriculum

**Specific Contact Info:**
Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

SUR 823     Last Dept. Review Date: 12/12/2018     Last Catalog Modification: 12/12/2018
Introduction to Anesthesiology

**Course Description**
Students will participate in a modern clinical anesthesiology practice with emphasis on perioperative medicine topics such as:

a) preoperative assessment of the patient
b) application of the basic sciences to perioperative management
c) management of acid-base and fluid disorders
d) management of acute perioperative pain and chronic pain states
e) role of anesthesiologists in obstetric care.

**Course Content & Objectives**
Students will be exposed to:

a) the clinical evaluation of surgical patients in the perioperative period
b) clinical pharmacology
c) clinical applications of anatomy, physiology, and biophysics
d) a variety of modalities for monitoring cardiopulmonary and neurologic function
e) airway management

**Learning Methods**
Students will work with staff anesthesiologists and nurse anesthetists. Together, they will conduct perioperative rounds and manage patients intraoperatively. There will be discussion sessions with semi-formal presentations. During the rotation period, the student will attend the department educational conference. Reading will be assigned.

**Evaluation**
The student will be evaluated by the faculty and director after observation of and discussion with the student as well as an end of rotation oral and written exams.

**Prerequisites**
Completion of Year III

**Specific Contact Info:**
Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
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## Course Description

Medical students will be exposed to cardiac surgical practice by participating with a team of surgeons, residents, physician assistants and others in evaluating and treating cardiac surgical patients. This will include preoperative preparation, operative management, and post-operative care. Emphasis will be placed on pre-operative assessment and post-operative critical care of cardiac patients. Additionally, students will be introduced to insertion and management of central lines, management of Swan Ganz Catheters, and wound care under the supervision of attendings and residents. Students will also be exposed to anesthesia management and by-pass pump mechanics.

This elective involves the management of patients with thoracic surgery problems ranging from lung disease including cancer to acquired and neoplastic diseases of the chest and esophagus (including GERD). The average weekly case load would be five to ten patients. The students will see and assist in evaluating patients in the emergency room, scrub in on cases in the operating room, assist with patient management in the intensive care unit and follow-up patients in clinic. The students will be in clinic part of two days a week to follow-up discharged patients and patients on direct referral from the emergency room consultations with the surgery resident. S/He will also help care for elective surgical cases. Night call will be every fourth night on average.

## Course Content & Objectives

The objective of this elective is to provide an opportunity for medical students to integrate basic science and clinical practice in caring for the cardiothoracic surgery patient. Cognitive skills will include anatomy and physiology and pathophysiology of the various organ systems. The specific skills attained will be placement of central lines, arterial monitors, and bladder catheterization, endotracheal intubation, placement of chest tubes, suture technique and wound dressings. Pre- and post-operative management of elective surgical cases as well as emergency trauma cases.

Student will be exposed to:


b. Multidisciplinary care of the cardiac surgical patients.

c. Hemodynamic monitoring of cardiac function during and after cardiac surgery.

## Learning Methods

Medical students will become an integrated members of the cardiothoracic surgical service during this rotation. This will include initial assessment, ordering or doing specific diagnostic procedures and recording a complete history and physical. S/He will be under the immediate supervision of either attendings or housestaff at all times. This being a “hands-on” rotation, the “see-one, do one” method will be used whenever appropriate. The students will attend all surgical conferences and will be supplied with references pertinent to the type of disease or injury s/he is managing. Daily rounds will be made with the attending for bedside teaching.

## Evaluation

Evaluation of the medical students will be based on the observation of his/her day to day performance and on periodic oral examination based on the category of patient s/he has managed. Grade: Pass/Fail
**Prerequisites**
Successful completion of Year III

**Specific Contact Info:**
Ana Hernandez, Student Coordinator, al hernandez@ premierhealth.com

_This Course is identical to:_  SUR 828  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018

SUR 853
Only Open to WSU Students
Colon And Rectal Surgery

Only students interested in General Surgery or another surgical sub-specialty may take the rotation.

Students must complete the Mt Carmel Visiting Student Application and be approved by MCHS in order to participate in this elective.

Lead time to DROP/ADD - 30 days.

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Clinical Elective
Surgical Elective

Capacity: Min 1 Max 1 Drop/Add Days: 30

**Course Description**

The student will participate on the in-patient colon and rectal surgery service. The student will be expected to perform H&P's on inpatients. This will include the formation of a differential diagnosis and development of an appropriate diagnostic evaluation treatment plan. The student will also participate in consultations. The student will be an active participant in the operating room often functioning as the first assistant to the operating surgeon. Students will gain experience in the placement of central lines.

**Course Content & Objectives**

a. Given a patient with rectal bleeding, describe the key components of the history, assess the degree of risk for colorectal cancer, and describe and appropriate risk-based evaluation. Risk of complications and the management of these complications should be included.

b. Given a patient with symptomatic hemorrhoids, describe the key components of the history, demonstrate skill in performing and office anorectal examination, and discuss the options for management.

c. Given a patient with constipation, discuss the key components of the history and describe an appropriate cost-conscious, algorithmic evaluation. Discuss the non-operative management including dietary recommendations, exercise, and medical options. Discuss the indications for and the conduct of the surgical procedures used for the management of constipation.

d. Given a patient with anorectal pain, describe the key components of the history, discuss the limits of office examination and the indications for exam under anesthesia. Describe the non-operative and operative management of painful anorectal conditions.

e. Given a patient with rectal cancer, discuss the pre-operative evaluation, including the use of transrectal ultrasound, and the indications for radiation therapy and chemotherapy. Discuss the indications for continent reconstruction versus abdominoperineal resection.

f. Given a patient with Crohn’s disease, discuss the evaluation, medical management, surgical options, and indications for surgical management.

g. Given a patient with ulcerative colitis, discuss the evaluation, medical management, role of colon cancer screening, surgical options, and indications for surgical management.

h. Develop basic surgical skills including knot tying, suturing, and proper methods of first assisting.

i. Develop basic endoscopic skills including the performance of anoscopy, rigid proctoscopy, flexible sigmoidoscopy, and colonoscopy.

j. Describe the indications, complications, and different methods of central line placement.

**Learning Methods**
Selected chapters will be assigned from Gordon and Nivatvong's *Principles and Practice of Surgery of the Colon, Rectum, and Anus* and from Corman's *Colon and Rectal Surgery*. Selected articles will be assigned from the journal *Diseases of the Colon and Rectum* as well as other peer-reviewed journals.

**Evaluation**

Students will be evaluated by supervising physicians. Successful completion includes enthusiastic participation in all aspects of patient care on the colon and rectal surgery service. Grade of Pass/Fail.

**Prerequisites**

Successful completion of Med 3 General Surgery clerkship for Med-4 elective rotations. Only students interested in General Surgery or another surgical sub-specialty may take the rotation.

**Specific Contact Info:**

Rebecca Nance, rnance@mchs.com

SUR 831  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Sub-Internship in General Surgery

**SUR 832**

**Time & Location**

- 4-week rotation, Mount Carmel West, Columbus, Ohio

  Lead time to DROP/ADD - 30 days. Only students interested in this specialty can take the rotation.

**Drop/Add Days:** 30

**Capacity:** Min 1 Max 1

- Students must complete the Mt Carmel specific Visiting Student Application on their website: www.gme.mchs.com AND be approved by MCHS in order to participate in this elective. There is no need to complete an application through VSAS.

- CV and USMLE report are required upon applying for an elective at Mt. Carmel.

**Clinical Elective**

**Surgical Elective**

- The student will receive feedback two weeks into the course and a final clinical evaluation from the faculty.

**Grade:** Pass/Fail.

**Course Director(s) & Faculty**

- Lowell Chambers, M.D., Program Director
- Charles A. Holden, M.D., Associate Program Director
- Steven Reitz, M.D., Associate Program Director

**Course Description**

Counts as a Sub-Internship or a Non Sub-I Surgery Elective

The student will be expected to take call as a sub-intern every third night at maximum, every fourth to fifth night as routine. The student will be assigned to a general surgery service, partake of appropriate patient assignments, go to surgery with those patients and scrub in to the level of his/her capabilities of assisting. The student will be given appropriate instruction in techniques that the faculty feels he/she is able to manage and be responsible for patient care including pre- and post-operative evaluation and care along with appropriate notes and chart dictation.

**Course Content & Objectives**

- a. To give the student clinical experience in general surgery at the responsibility level of the acting PG-1
- b. To have the student acquire knowledge pertinent to the care of patients on the general surgery service
- c. To have the students acquire some of the technical skills involved in the care of general surgery patients.
- d. To have the student learn professional attitudes appropriate to the care of general surgery patients
- e. The advancement of surgical skills and knowledge appropriate to the academic and
- f. surgical skills of the individual student

**Learning Methods**

- a. Required readings and required conferences
- b. Participation in the clinical care of patients
- c. Supervised participation in technical professional skills
- d. Observation of faculty as mentors in the action of the doctor-patient relationship

**Evaluation**

The student will receive feedback two weeks into the course and a final clinical evaluation from the faculty.

**Grade:** Pass/Fail.

**Prerequisites**

Successful completion of Year III.

**Specific Contact Info:**

- Rebecca Nance, rnance@mchs.com

**SUR 832**

**Last Dept. Review Date:** 12/12/2018

**Last Catalog Modification:** 12/12/2018

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf

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### Time & Location

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4-week rotation, Mount Carmel Medical Center, Columbus, Ohio

Only students interested in general surgery or this sub-specialty may take the rotations from July through Feb of the academic year.

Students must complete the Mt Carmel Visiting Student Application and be approved by MCHS in order to participate in this elective.

Lead time to DROP/ADD, 45 days.

| Clinical Elective | Surgical Elective | Capacity: Min 1 Max 1 Drop/Add Days: 45 |

### Full-block.

### Course Director(s) & Faculty

Charles A. Holden, M.D., Director
Vascular Surgery Faculty

### Course Description

The student will participate on the in-patient vascular surgery service. The student will be expected to perform H&Ps on in-patients, including assessment and treatment plan development. The student will also participate in consultations. The student will be an active participant in the operative procedures of venous, aneurysmal, occlusive, and CNS vascular surgery. The student will be expected to take four in-house calls. Students will gain experience in placement of central lines.

### Course Content & Objectives

a. Given a patient with chronic venous insufficiency, describe the evaluation, therapy and prognosis. Risk of complications and management of these should be included.

b. Given a patient with aneurysmal disease, describe the pre-operative evaluation, assessment of risk of rupture, and indications for operative and non-operative management. Discuss incidence, diagnosis and treatment of common complications of operative repair.

c. Given a patient with vascular disease of the CNS, describe the pre-operative evaluation, assessment of risk of stroke and indications of operative and non-operative management.

d. Given a patient with occlusive vascular disease, describe the risk factors, pre-operative evaluation, and indications for operative and non-operative management. Discuss the indications as well as risks and benefits of anatomical versus extra-anatomical bypass.

e. Given a patient with hypercoaguability, describe the evaluation and management. Discuss the incidence and risk factors.

f. Given a patient with diabetic foot ulcer, describe the evaluation, medical and surgical therapy, including a multi-disciplinary approach.

g. Given a patient with vascular disease, evaluate the risk of a peri-operative cardiovascular complication, and preventative measures. Describe cardiovascular physiology that explains a set of pulmonary artery catheter results.

h. Be aware of and able to describe endovascular alternative to "traditional" vascular therapy.

i. Be an active participant in the operating room in the surgical care of patients with vascular disease.

j. Describe indications, complications and steps of central line placement. Opportunity will be provided to practice this skill under the supervision of surgical house officers.

### Learning Methods

a. Weekly teaching conferences

b. M&M

c. Grand rounds

d. Faculty conferences

### Evaluation

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Students will be evaluated by supervising physicians. Successful completion includes enthusiastic participation in all sessions. Grade of Pass/Fail.

Prerequisites
Successful completion of third year surgery clerkship.

Specific Contact Info:
Rebecca Nance, rnance@mchs.com

SUR 833  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Anesthesia Pain Management

**Course Description**

a. The objective of this course is to familiarize the student with the diagnosis and treatment of acute and chronic pain patients.

b. The majority of the rotation will be spent in Anesthesia Pain Management Center and associated areas (OR, Recovery Room, ICU and the wards). Short rotations on other services involved in the treatment of pain will be available – i.e., Psychology, neurology, and physical therapy.

c. Lectures on the basics of pain medicine will be given throughout the course.

d. On-call coverage not required

**Course Content & Objectives**

Upon completion of the Anesthesia Pain Management elective, the student will be able to:

a. Discuss pain mechanism and specific pain syndromes

b. Take a pain-oriented history and perform pain oriented physical exams

c. Diagnose and treat common pain syndromes

d. Discuss the mechanism of action of the various medications used in pain management.

**Learning Methods**

Students completing the Pain management elective will be expected to participate as a member of the patient care team by attendance in the Anesthesiology Pain Management Center, the Operating Room, the Post Anesthesia Care Unit, the Intensive Care Units and the patient wards. Selected readings through medical journals and literature may be assigned and the student will be expected to discuss this material in an informal session.

**Evaluation**

Students will be observed for skills and attitude as well as demonstrating an understanding of the material through performance of history and physicals, diagnosing and suggesting a treatment regimen for the patients in the center. Grade: Pass/Fail

**Prerequisites**

Completion of Year III clerkships in Psychiatry, Internal Medicine, and Surgery.

**Specific Contact Info:**

Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

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Full-block.

**Course Director(s) & Faculty**

Townsend Smith, III, M.D., Medical Director, MVH Pain Center, Assistant Clinical Professor, Director, Acute & Chronic Pain Section, Anesthesia Dept., MVH

**Time & Location**

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4-week rotations, Miami Valley Hospital Pain Management Center, 30 E. Apple St., Suite 5250, Dayton, Ohio

Lead Time to DROP/ADD – 45 days

**Capacity:** Min 1 Max 1 Drop/Add Days: 45
This Course is identical to: SUR 835

SUR 859
Only Open to WSU Students

Introduction to Medical and Surgical Ophthalmology

2-week rotation. Private offices of area ophthalmologists and community-based affiliated hospitals in the Dayton area.

Lead time required to DROP/ADD elective - 45 days

Clinical Elective  Surgical Elective  Capacity: Min 1  Max 1  Drop/Add Days: 45

Half-block.

Course Director(s) & Faculty
Richard L. Liston, M.D., Director, Clinical Assistant Professor
Aaron Davis, M.D., Clinical Assistant Professor
Kevin Watt, M.D., Clinical Assistant Professor
Division of Ophthalmology Faculty

Course Description
This will be a preceptorship in which each student will spend two weeks with one or more different faculty members.

Course Content & Objectives
During the course each student will perfect:

a. Recording of an eye history that will identify the presence and specific location of disorders affecting the eye.
b. Performance of an external ocular examination that will identify or exclude abnormalities.
c. Use of slit lamp, direct ophthalmoscope and other instruments needed for complete evaluation of the eye.

Each student will further extend his/her knowledge of:
a. Ocular anatomy and physiology, including the visual pathways and related cranial nerves.
b. The meaning of eye symptoms.
c. Evaluation and management of reduced vision.
d. Ocular manifestations of systemic disease.
e. Ocular manifestations of neurologic disease.
f. Diagnoses and management of common eye injuries.
g. Diagnoses and management of a red eye.
h. Glaucoma
i. Strabismus.
j. Errors of refraction.
k. Degenerative diseases of the eye.
l. Inflammatory diseases of the eye.
m. Developmental abnormalities of the eye.
n. Disorders of the eyelids.
o. Orbital abnormalities.
p. Ocular pharmacology and medical therapy.
q. Surgery of the eye.
r. Prevention of blindness.
s. Appropriate use of diagnostic laboratory testing, scanning, etc.
Learning Methods
   a. Interaction with faculty preceptors
   b. Evaluation and examination of patients
   c. Assisting in planning medical therapy
   d. Self Study - audio/video cassettes from Wright State University Medical School Library Resource Center.
   g. Reference series-clinical Ophthalmology by Thomas D. Duane
   h. Other assigned reading

Evaluation
   a. Observation of work
   b. Ability to correlate data regarding diagnosis and appropriate therapy.
   c. Oral examination at the conclusion of the elective.
   d. Grade: Pass/Fail

Prerequisites
   Completion of Year III

Specific Contact Info:
Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

This Course is identical to: SUR 836  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Introduction to Ear/Nose/Throat Disease

SUR 837

Time & Location

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2-week rotation. Private offices of faculty members and community-based hospitals in the Dayton and outlying areas.

Lead time required to DROP/ADD elective, 45 days

Clinical Elective

Surgical Elective

Capacity: Min 1 Max 1 Drop/Add Days: 45

Half-block.

Course Director(s) & Faculty

Ravindhra Elluru, M.D., Ph.D. Director, Professor

Course Description

A preceptorship in which the student will spend two weeks with one faculty member and will involve extensive and in-depth study of the subject matter. Assignment of faculty is made in advance to allow for adequate preparation by the student in specific areas (see Content Objectives, below). The student will be expected to be available for all medical situations, emergency and routine, with his/her preceptor. It will be the responsibility of the student to contact his/her preceptor prior to the elective to finalize the schedule and location of meetings.

Course Content & Objectives

At the completion of the elective the student should be able to:

- b. Diagnose and treat medically common infections, traumatic or acquired ear disease, and recognize those cases which should be surgically treated;
- c. Evaluate a dizzy patient;
- d. Evaluate nasal obstruction (medical, allergic, traumatic) and initiate appropriate treatment;
- e. Evaluate and treat epistaxis;
- f. Recognize and initiate treatment in the different forms of sinusitis;
- g. Recognize significant intra-oral pathology and its relationship to systemic disease, specifically cancer.
- h. Evaluate tonsillitis and recommend treatment;
- i. Evaluate hoarseness, neck masses, and common causes of upper airway obstruction;
- j. Discuss principles of staging, management, and combined therapy methods for cancer of the head and neck.
- k. Recognize basic allergic patterns and when referral is necessary.

Learning Methods

- a. History taking, physical examination and evaluation with the practitioner in private offices.
- b. Observation at surgery.
- c. Individual discussion with preceptor.
- d. Assigned reading.
- e. Rounds with the attending physician.
- f. Audio-visual material.

Evaluation

Observation of work. Oral examination by the preceptor at the end of the elective. Grade: Pass/Fail

Prerequisites

Satisfactory completion of third-year curriculum. Additional requirements for month-long and outlying area electives are listed under each course listing.

Wright State University Boonshoft School of Medicine
Only Open to WSU Students

Gen Surgery/Oncology Sub-I

4-week rotation. Kettering Medical Center, Miami Valley and Miami Valley South Hospitals, and Faculty Private offices.

Contact hours per week will be approximately 50.

Lead time required to DROP/ADD elective - 45 days

Clinical Elective       Surgical Elective

Capacity: Min 1     Max 1     Drop/Add Days: 45

Full-block.

Course Director(s) & Faculty

Rebecca Tuttle, M.D., Associate Director
Minia Hellan, M.D., Associate Professor
James R. Ouellette, D.O., Associate Professor
Matthew Doepker, M.D., Associate Professor
Surgical Resident Staff

Course Description   Counts as a Sub-Internship or a Non Sub-I Surgery Elective

Counts as a Sub-Internship or a Non Sub-I Surgery Elective

The general surgical and oncologic service at Kettering Medical Center provides exposure to a broad variety of general surgical and oncological problems handled by the staff. Additionally, the surgical service provides consultive service for all non-surgical staff services (OB/GYN, medicine, Orthopedics, Family Medicine) at Miami Valley, Miami Valley South, and Kettering Medical Center. The average daily census is 15 to 20 patients with an average weekly case load of 10 to 12 cases. The surgical clinics are staffed by this service. The general clinic is held two days a week.

Course Content & Objectives

The objectives of this elective are to allow the medical student to fully integrate both basic science and clinical medicine by appreciating the spectrum of the general surgical cancer patients, management of newly diagnosed cancer patients, treatment planning, and the multidisciplinary care of cancer patients. The student will be able to participate in a dynamic program of patient evaluation and surgical management and will obtain exposure to the broad field of general surgical and oncological problems. The student will be provided with the unique experience of having “first” exposure to the patients in the office and be afforded the opportunity of the initial evaluation with critique and evaluation by the surgical resident staff and attending surgeons from Miami Valley Hospital and Kettering Medical Center. The student will be assigned a minimum of one new patient per day that will be his/her “patient” of the primary responsibility. This will allow him/her ability in the evaluation, examination and management of these patients as if they were his/her own.

Learning Methods

The medical student will become a member of the surgical service during his/her participation in this elective and will participate in the care of all patients on the service including patients specifically assigned to him/her. S/He will participate in evaluations of the pre-operative, intra-operative, and post operative management of general surgical patients. Daily rounds are made by all residents and medical students on the staff service and participation in the surgical clinics is required. The medical student will perform the admission history and physical examination on patients assigned to him/her and participates in the post-operative care. Attendance will be required at the weekly surgical grand round, surgical mortality and morbidity conference and weekly surgical staff walking rounds at which time brief case presentations will be performed by him/her.

Evaluation

Evaluation of the medical student in this elective will include observations made by the faculty members throughout the elective. Grade: Pass/Fail
Prerequisites
Completion of Year III

Specific Contact Info:
Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

SUR 840  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Sub-Internship in General Surgery

4-week rotation with Department of Surgery Faculty at MVH and KMC. Contact hours per week will be approximately 70. Call will be once a week.

Lead time to DROP/ADD elective - 45 days

Course Director(s) & Faculty

Linda Barney, M.D., Associate Professor
Surgery Faculty
Surgical Resident Staff

Course Description

Counts as a Sub-Internship or a Non Sub-I Surgery Elective

Counts as a Sub-Internship or a Non Sub-I Surgery Elective

The General Surgery Staff of the Department of Surgery provides an exposure to the broad variety of general surgery patients. These busy services will provide students with substantial patient exposure and appropriate responsibility. The rotation will be on a general surgery service. The sub-intern will function as a member of the care team that will be composed of faculty and both senior and junior surgery residents. Junior students on their surgical clerkship may also be assigned to the service.

Course Content & Objectives

The objectives of this sub-internship are to expose the student to a range of patients with surgical disease requiring surgical management. Students will be integrated onto the service and function as a sub-intern with patient responsibilities pre-operatively, intra-operatively and post-operatively. The student will be encouraged to develop independent skills and confidence. Students will be encouraged to become familiar with a variety of interventional techniques, including placement of central venous catheters, placement of and utilization of Swan-Gantz catheters and appropriately supervised activity in the Operating Room including some suturing, surgical assisting and performance of some minor surgical procedures.

Learning Methods

Medical students will become a member of the surgical service during his/her participation in this Sub-I and will participate in the care of all patients on the service including patients specifically assigned to him/her. Daily rounds are made by all residents and medical students on the surgical staff service. Medical students will perform the admission history and physical examination on patients assigned to him/her and will participate in the pre- and post-operative care. Attendance will be expected at the weekly surgical grand rounds, surgical mortality and morbidity conference and weekly surgical staff walking rounds at which time brief case presentations will be performed by him/her. The medical student will take in-house call once per week. Students will be assigned required reading and will take the Basic Science quizzes given to the residents. Online virtual patients may be assigned as well.

Evaluation

Faculty members will evaluate medical students in this elective based upon their observations and oral examination at the end of the elective. Grade: Pass/Fail.

Prerequisites

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
**Vascular Surgery**

**Time & Location**

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4-week rotation, Miami Valley Hospital and Community-Based Hospitals. Contact hours per week will be approximately 50. Call will be every fourth (4th) night.

Lead time required to DROP/ADD elective – 45 days

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<th>Capacity: Min 1 Max 1 Drop/Add Days: 45</th>
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**Course Director(s) & Faculty**

John Matsuura, M.D., Professor

**Course Description**

The vascular surgical service at Good Samaritan Hospital provides an exposure to the broad variety of vascular problems handled by the resident staff. The vascular service is responsible for all elective (vascular) surgery performed at Good Samaritan Hospital, including Emergency Department evaluation of urgent surgical and surgical subspecialty problems. Additionally, the vascular service provides consultative service for all non-surgical staff services (OB/GYN, medicine, Orthopedics, and Family Medicine) at Good Samaritan Hospital. The average daily census is 8 to 10 patients with an average weekly caseload of 10 to 12 cases. The vascular clinics are staffed by this service.

**Course Content & Objectives**

The objectives of this elective are to allow the medical student to full integrate both basic science and clinical medicine by appreciating the spectrum of fluid and electrolyte, microbiological, and physiological needs of the vascular surgical patient. The student will be able to participate in a dynamic program of patient evaluation and surgical management and will obtain exposure to the broad field of vascular problems. The student will be provided with the unique experience of having “first” exposure to the patients in the emergency department and be afforded the opportunity of the initial evaluation with critique and evaluation by the surgical resident staff and attending surgeons from Good Samaritan Hospital. The student will be assigned a minimum of one new patient every other day that will be his/her ability in the evaluation, examination and management of these patients as if they were his/her own. Specific skills should be obtained by the medical student including direction in placement of a variety of monitoring catheters including central venous catheters, arterial line, Swan Ganz catheters and skills in surgical technique, suturing ability, minor surgery and surgical assisting.

**Learning Methods**

The medical student will become a member of the vascular service during his/her participation in this elective and will participate in the care of all patients on the service including patients specifically assigned to him/her. S/He will participate in evaluations of the pre-operative, intra-operative management of vascular patients. Daily rounds are made by all residents and medical students on the staff service and participation in the surgical clinical is required. The medical student will perform the admission history and physical examination on patients assigned to him/her and participates in the post-operative care. Attendance will be required at the surgical grand rounds, surgical mortality and morbidity conference and weekly vascular conference at which time brief case presentations will be performed by him/her. The medical student will take in-house call every fourth night.

**Evaluation**

Evaluation of the medical student in this elective will include observations made by the faculty members throughout the elective as well as oral examination at the end of the elective.

Grade: Pass/Fail

**Prerequisites**

Completion of Year III

Wright State University Boonshoft School of Medicine

[https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf](https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf)
Specific Contact Info:
Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

SUR 844  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Burn and Complex Soft Tissue Wound Surgery

4-week rotation, Miami Valley Hospital
Contact hours per week will be approximately 50. Call will be every fourth (4th) night.

Lead time required to DROP/ADD elective - 45 days.

Clinical Elective  Surgical Elective  Capacity:  Min 1  Max 1  Drop/Add Days: 45

Course Director(s) & Faculty
Travis L. Perry, M.D., Director, Assistant Professor
Surgery Resident Staff

Course Description
Counts as a Sub-Internship or a Non Sub-I Surgery Elective

Counts as a Sub-Internship
The burn service at Miami Valley Hospital provides an exposure to the broad variety of problems handled by the resident staff. The burn service is responsible for all burn related surgery performed at Miami Valley Hospital including Emergency Department evaluation. The average daily census is 5 to 10 patients, with an average weekly case load of 2 to 5 cases. The burn clinics are staffed by this service. The clinic is held two days a week.
The sub-intern will be a full member of the care team composed of a senior surgical resident and a junior surgical resident.

Course Content & Objectives
The objectives of this elective are to allow the medical student to fully integrate both basic science and clinical medicine by appreciating the spectrum of fluid and electrolyte, microbiological, and physiological needs of the burn patient. The student will be able to participate in a dynamic program of patient evaluation and surgical management and will obtain exposure to the field of burn problems.
Students will be provided with the unique experience of having "first" exposure to the patients in the emergency department and be afforded the opportunity of the initial evaluation with critique and evaluation by the surgical resident staff and attending surgeons from Miami Valley Hospital.
Students will be assigned a minimum of one new patient every other day that will be his/her "patient" of primary responsibility. This will allow him/her under the sheltered atmosphere of the burn service, to demonstrate his/her ability in the evaluation, examination and management of these patients as if they were his/her own. Specific skill should be obtained by the medical student including the placement of a variety of monitoring catheters including central venous catheters, arterial line, Swan Ganz catheters and skills in surgical technique, suturing ability, minor surgery and surgical assisting. He/she will also gain exposure in intratracheal intubation flexible bronchoscopy and flexible upper gastrointestinal endoscopy.

Learning Methods
Medical students will become a member of the burn service during his/her participation in this elective and will participate in the care of all patients on the service including patients specifically assigned to him/her. S/He will participate in evaluations of the pre operative, intra operative and post operative management of burn patients. Daily rounds are made by all residents and medical students on the service and participation in the surgical clinics is required. Medical students will perform the admission history and physical examination on patients assigned to him/her and participates in the post operative care.
Attendance will be required at the weekly surgical grand rounds, surgical mortality and morbidity conference and weekly surgical staff walking rounds at which time brief case presentations will be performed by him/her. The medical student will
take in-house call every fourth (4) night.

**Evaluation**

Evaluation of the medical student in this elective will include observations made by the faculty members throughout the elective as well as an oral examination at the end of the elective. Grade: Pass/Fail

**Prerequisites**

Completion of Year III

**Specific Contact Info:**

Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

SUR 846 \hspace{1cm} \textit{Last Dept. Review Date: 12/12/2018} \hspace{1cm} \textit{Last Catalog Modification: 12/12/2018}
Introduction to Urology

Course Director(s) & Faculty
Michael Yu, M.D., Director, Clinical Assistant Professor
Mark Monsour, M.D.; Clinical Assistant Professor
Toby Lees, M.D.; Clinical Assistant Professor
Urology Clinical Faculty

Course Description
This course will introduce students to all aspects of urologic care ranging from outpatient management of urinary problems to inpatient management and surgery. Exposure to various aspects of urology to include stone disease, infections, adult and pediatric anatomic problems, and various malignancies. Outpatient work is generally managed in the outpatient setting at various faculty offices. Inpatient work will be at community based hospitals.

Course Content & Objectives
The student completing this course will be able to discuss the following:

a. infections and inflammations of the urinary tract
b. benign and malignant neoplasms of the urinary tract
c. benign prostatic hyperplasia
d. stone disease
e. trauma
f. diagnostic procedures
g. urinalyses
h. pyelograms
i. catheterization

Learning Methods
a. review the literature
b. lectures and conferences
c. in-patient rounds with faculty
d. out-patient visits
e. visits to faculty private offices
f. experience in assisting in surgery
g. histories and physicals on selected patients

Evaluation
Oral examination of competency by faculty. Grade: Pass/Fail

Wright State University Boonshoft School of Medicine
https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Prerequisites
Completion of the Year III Surgery Clerkship.

Specific Contact Info:
Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

This Course is identical to: SUR 847

SUR 814

Last Dept. Review Date: 12/12/2018
Last Catalog Modification: 12/12/2018
Pediatric Surgery

Time & Location

4-week rotation, Dayton Children's Hospital

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Lead time required to DROP/ADD elective - 45 days.

Clinical Elective

Surgical Elective

Capacity: Min 1 Max 1 Drop/Add Days: 45

Full-block.

Course Director(s) & Faculty

Arturo Aranda, M.D., Assistant Professor, Education Director
David P. Meagher, Jr., M.D., Professor and Medical Director
Jeffery S. Christian, M.D., Clinical Associate Professor
Sean J. Barnett, M.D., Associate Professor

Course Description

a. Student will be integrated into the clinical pediatric surgery service.
b. Follow a patient from Clinic through pre-op preparation of patient and parents, through surgery and finally post-op follow-up in Clinic or Office.
c. Anatomy, physiology, pharmacology and pathology of pediatric surgery and anesthesia for various surgical conditions in children will be discussed.
d. Indications for surgery will be discussed.
e. Student will attend daily service morning rounds.
f. Student will identify and participate in the care of at least on inpatient daily throughout the patient's hospital course.
g. Student will participate in the operative care of individual and/or service patients.
h. Student will attend outpatient clinic weekly (one-half day clinics)
i. Student may elect to participate in the drafting of a clinical research manuscript for submission in a peer-reviewed journal and/or meeting for presentation.

Learning Methods

A student may be assigned to one attending pediatric surgeon or may alternate daily between the five surgeons as the student wishes. S/He should be expected to "scrub in" during the surgery when feasible. S/He will attend Pediatric Surgery seminars, CPC's, and Grand Rounds at CMC. Each student may be assigned a topic or two to read in depth and present at the end of the elective.

Evaluation

Evaluation will be based upon attendance, enthusiasm, initiative, professionalism, organizational skills, and overall clinical performance. Grade: Pass/Fail

Prerequisites

Successful completion of Year III

Specific Contact Info:

Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

This Course is identical to: SUR 848 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 12/12/2018

Wright State University Boonshoft School of Medicine
**Course Description**

The course is designed to introduce students to concepts of modern anesthetic techniques with emphasis on:

a. Pre-operative assessment and getting a patient into optimal condition for anesthesia.

b. The application of basic pharmacology to anesthesiology and airway management.

c. Technical aspects of management, I.V. lines, positioning and monitoring.

d. Pulmonary care, complications and therapy.

e. The role of the Anesthesiologist in special situations (chronic pain, use of blocks in diagnosis and therapy).

**Course Content & Objectives**

a. Evaluate patients with different system defects with emphasis on suitability for anesthesia, choice of technique, therapy for improving conditions, and particularly being able to discuss the anesthetic risks rationally with the patient as well as communicating salient facts to the anesthesiologist.

b. Be able to apply basic pharmacological knowledge to surgery or prolonged unconsciousness.

c. Demonstrate specific skills:
   1. Endotracheal intubation.
   2. Setting up an I.V.
   3. Assess fluid requirements.
   4. Care for and safely monitor the unconscious patient.

d. Diagnose inadequate respiratory function pre-, intra-, and post-operatively and prescribe rational management.

**Learning Methods**

a. Attendance at pre-operative patient rounds.

b. Attendance in the operating room.

b. Informal discussion sessions.

c. Selected reading.

**Evaluation**

a. Observation of skills and attitude

b. Grade: Pass/Fail
Medical and Surgical Ophthalmology

**Full-block.**

**Course Director(s) & Faculty**

Richard L. Liston, M.D., Director, Clinical Assistant Professor  
Chief, Division of Ophthalmology Clinical Faculty  
Aaron Davis, M.D., Clinical Assistant Professor  
Kevin Watt, M.D., Clinical Assistant Professor

**Course Description**

This will be a preceptorship in which each student will spend four weeks with one or more different faculty members. This elective is ideally suited for a student entering a career in Ophthalmology or Emergency Medicine.

**Course Content & Objectives**

During the course each student will perfect:

a. The recording of an eye history that will identify the presence and specific location of disorders affecting the eye.

b. The performance of an external ocular examination that will identify or exclude abnormalities.

c. The use of slit lamp, direct ophthalmoscope and other instruments needed for complete evaluation of the eye.

Each student will be given initial exposure to:

a. Ocular anatomy and physiology, including the visual pathways and related cranial nerves.

b. The meaning of eye symptoms.

c. The evaluation and management of reduced vision.

d. The ocular manifestations of systemic disease.

e. The ocular manifestations of neurologic disease.

f. The diagnosis and management of common eye injuries.

g. The diagnosis and management of a red eye.

h. Glaucoma

i. Strabismus.

j. Errors of refraction.

k. Degenerative diseases of the eye.

l. Inflammatory diseases of the eye.

m. Developmental abnormalities of the eye.

n. Disorders of the eyelids.

o. Orbital abnormalities.

p. Ocular pharmacology and medical therapy.

q. Surgery of the eye.

r. Prevention of blindness.

s. Appropriate use of diagnostic laboratory testing, scanning, etc.
Learning Methods

a. Interaction with faculty preceptors
b. Evaluation and examination of patients
c. Assisting in planning medical therapy
d. Self Study - audio/video cassettes from Wright State University Medical School Library Resource Center.
e. Book entitled, Ophthalmology Study Guide.
g. Reference series-clinical Ophthalmology by Thomas D. Duane
h. Or other assigned reading

Evaluation

a. Observation of work
b. Ability to correlate data regarding diagnosis and appropriate therapy.
c. Oral examination at the conclusion of the elective.
d. Grade: Pass/Fail

Prerequisites

Completion of Year III

Specific Contact Info:

Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

This Course is identical to:  SUR 851  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018

SUR 836
Anesthesiology

**Time & Location**

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4-week rotation, Dayton VA Medical Center and other community based hospitals

Lead time to DROP/ADD elective - 45 days

**Clinical Elective**  **Surgical Elective**

**Capacity:** Min 1  Max 1  **Drop/Add Days:** 45

**Full-block.**

**Course Director(s) & Faculty**

Eric High, M.D., Director, Clinical Associate Professor

**Course Description**

Medical students will be introduced to modern clinical anesthesiology practice with emphasis on perioperative medicine. Such as the:

- a. preoperative assessment of the patient
- b. application of the basic sciences to perioperative management
- c. management of acid-base and fluid disorders
- d. management of acute perioperative pain and chronic pain states

**Course Content & Objectives**

Students will be exposed to:

- a. the clinical evaluation of surgical patients in the perioperative period
- b. clinical pharmacology
- c. clinical applications of anatomy, physiology, and biophysics
- d. a variety of modalities for monitoring cardiopulmonary and neurologic function
- e. airway management

**Learning Methods**

Students will work with staff anesthesiologists and nurse anesthetists. Together, they will conduct perioperative rounds and manage patients intraoperatively. There will be discussion sessions with semi-formal presentations. During the rotation period, the student will attend the department educational conference. Reading will be assigned.

**Evaluation**

Students will be evaluated by the faculty and director after observation of and discussion with the student as well as an end of rotation oral and written exams. Grade will be Pass/Fail.

**Prerequisites**

Completion of Year III.

**Specific Contact Info:**

Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

This Course is identical to:  SUR 852  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Cardiothoracic Surgery

**Course Description**
Medical students will be exposed to cardiac surgical practice by participating with a team of surgeons, residents, physician assistants and others in evaluating and treating cardiac surgical patients. This will include preoperative preparation, operative management, and post-operative care. Emphasis will be placed on pre-operative assessment and post-operative critical care of cardiac patients. Additionally, students will be introduced to insertion and management of central lines, management of Swan Ganz Catheters, and wound care under the supervision of attendings and residents. They will also be exposed to anesthesia management and by-pass pump mechanics.

This elective involves the management of patients with thoracic surgery problems ranging from lung disease including cancer to acquired and neoplastic diseases of the chest and esophagus (including GERD). The average weekly case load would be five to ten patients. The student will see and assist in evaluating patients in the emergency room, scrub in on cases in the operating room, assist with patient management in the intensive care unit and follow-up patients in clinic. Students will be in clinic part of two days a week to follow-up discharged patients and patients on direct referral from the emergency room consultations with the surgery resident. S/He will also help care for elective surgical cases. Night call every fourth night on average.

**Course Content & Objectives**
The objective of this elective is to provide an opportunity for medical students to integrate basic science and clinical practice in caring for the cardiothoracic surgery patient. Cognitive skills will include anatomy and physiology and pathophysiology of the various organ systems. The specific skills attained will be placement of central lines, arterial monitors, and bladder catheterization, endotracheal intubation, placement of chest tubes, suture technique and wound dressings. Pre- and post-operative management of elective surgical cases as well as emergency trauma cases.

Students will be exposed to:
2. Multidisciplinary care of the cardiac surgical patients.
3. Hemodynamic monitoring of cardiac function during and after cardiac surgery.

**Learning Methods**
Medical students will become an integrated member of the cardiothoracic surgical service during this rotation. This will include initial assessment, ordering or doing specific diagnostic procedures and recording a complete history and physical. S/He will be under the immediate supervision of either attendings or housestaff at all times. This being a “hands-on” rotation, the “see-one, do one” method will be used whenever appropriate. The student will attend all surgical conferences and will be supplied with references pertinent to the type of disease or injury s/he is managing. Daily rounds will be made with the attending for bedside teaching.

**Evaluation**
The evaluation of the medical student will be based on the observation of his/her day to day performance and on periodic...
oral examination based on the category of patient s/he has managed.
Grade: Pass/Fail

Prerequisites
Completion of Year III

*This Course is identical to:*  SUR 853  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 1/10/2019

SUR 828
# Ear Nose and Throat Disease

Only Open to WSU Students

**SUR 854**

**Course Description**

A preceptorship in which the student will spend one month with one faculty member and will involve extensive and in-depth study of the subject matter. Assignment of faculty is made in advance to allow for adequate preparation by the student in specific areas (see Course Content & Objectives, below). The student will be expected to be available for all medical situations, emergency and routine, with his/her preceptor. It will be the responsibility of the student to contact his/her preceptor prior to the elective to finalize the schedule and location of meetings.

## Course Content & Objectives

At the completion of the elective the student should be able to:


b. Diagnose and treat medically common infections, traumatic or acquired ear disease, and recognize those cases which should be surgically treated;

c. Evaluate a dizzy patient;

d. Evaluate nasal obstruction (medical, allergic, traumatic) and initiate appropriate treatment;

e. Evaluate and treat epistaxis;

f. Recognize and initiate treatment in the different forms of sinusitis;

g. Recognize significant intra-oral pathology and its relationship to systemic disease, specifically cancer;

h. Evaluate tonsillitis and recommend treatment;

i. Evaluate hoarseness, neck masses, and common causes of upper airway obstruction;

j. Discuss principles of staging, management, and combined therapy methods for cancer of the head and neck;

k. Recognize basic allergic patterns and when referral is necessary.

## Learning Methods

- a. History taking, physical examination and evaluation with the practitioner in private offices.
- b. Observation at surgery.
- c. Individual discussion with preceptor.
- d. Assigned reading.
- e. Rounds with the attending physician.
- f. Audio-visual material.

## Evaluation

Observation of work. Oral examination by the preceptor at the end of the elective.

Grade: Pass/Fail

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**Full-block.**

### Course Director(s) & Faculty

Ravindhra Elluru, M.D., Ph.D., Director, Professor

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### Time & Location

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4-week rotation, Private offices of faculty members and community based hospitals in the Dayton area.

Lead time required to DROP/ADD elective - 2 months

**Clinical Elective**          **Surgical Elective**

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[https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf](https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf)
Prerequisites
Satisfactory completion of third-year curriculum. Additional requirements for month-long and outlying area electives are listed under each course listing.

Specific Contact Info:
Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

This Course is identical to: SUR 854  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018

SUR 837
Intro: Burn and Complex Soft Tissue Wound Surgery

2-week rotation, Miami Valley Hospital

Contact hours per week will be approximately 50.

Lead time required to DROP/ADD elective – 45 days

Clinical Elective

Surgical Elective

Capacity: Min 1  Max 1  Drop/Add Days: 45

Half-block.

Course Director(s) & Faculty

Travis L. Perry, M.D., Director, Assistant Professor
Surgery Resident Staff

Course Description

The burn service at Miami Valley Hospital provides an exposure to the broad variety of problems handled by the resident staff. The burn service is responsible for all burn related surgery performed at Miami Valley Hospital including Emergency Department evaluation. The average daily census is 5 to 10 patients with an average weekly case load of 2 to 5 cases. The burn clinics are staffed by this service. The clinic is held two days a week.

Course Content & Objectives

The objectives of this elective are to allow the medical student to fully integrate both basic science and clinical medicine by appreciating the spectrum of fluid and electrolyte, microbiological, and physiological needs of the burn patient. The student will be able to participate in a dynamic program of patient evaluation and surgical management and will obtain exposure to the field of burn problems.

Students will be provided with the unique experience of having "first" exposure to the patients in the emergency department and be afforded the opportunity of the initial evaluation with critique and evaluation by the surgical resident staff and attending surgeons from Miami Valley Hospital.

Students will be assigned a minimum of one new patient every other day that will be his/her "patient" of primary responsibility. This will allow him/her under the sheltered atmosphere of the burn service, to demonstrate his/her ability in the evaluation, examination and management of these patients as if they were his/her own. Specific skill should be obtained by the medical student including the placement of a variety of monitoring catheters including central venous catheters, arterial line, Swan Ganz catheters and skills in surgical technique, suturing ability, minor surgery and surgical assisting. He/she will also gain exposure in intratracheal intubation flexible bronchoscopy and flexible upper gastrointestinal endoscopy.

Learning Methods

Medical students will become members of the burn service during their participation in this elective and will participate in the care of all patients on the service including patients specifically assigned to them. They will participate in evaluations of the pre operative, intra operative and post operative management of burn patients. Daily rounds are made by all residents and medical students on the service and participation in the surgical clinics is required. The medical student will perform the admission history and physical examination on patients assigned to him/her and participates in the post operative care. Attendance will be required at the weekly surgical grand rounds, surgical mortality and morbidity conference and weekly surgical staff walking rounds at which time brief case presentations will be performed by him/her.

Evaluation

Evaluation of the medical student in this elective will include observations made by the faculty members throughout the elective as well as an oral examination at the end of the elective. Grade: Pass/Fail

Prerequisites

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Specific Contact Info:
Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

SUR 858       Last Dept. Review Date: 12/12/2018       Last Catalog Modification: 12/12/2018
Introduction to Anesthesia/Pain Management

**Course Description**

a. The objective of this course is to familiarize the student with the diagnosis and treatment of acute and chronic pain patients.

b. The majority of the rotation will be spent in Anesthesia Pain Management Center and associated areas (OR, Recovery Room, ICU and the wards). Short rotations on other services involved in the treatment of pain will be available – ie. Psychology, neurology, and physical therapy.

c. Lectures on the basics of pain medicine will be given throughout the course.

d. On-call coverage not required

**Course Content & Objectives**

Upon completion of the Anesthesia Pain Management elective, the student will be able to:

a. Discuss pain mechanism and specific pain syndromes

b. Take a pain-oriented history and perform pain oriented physical exams

c. Diagnose and treat common pain syndromes

d. Discuss the mechanism of action of the various medications used in pain management.

**Learning Methods**

Medical students completing the pain management elective will be expected to participate as a member of the patient care team by attendance in the Anesthesiology Pain Management Center, the Operating Room, the Post Anesthesia Care Unit, the Intensive Care Units and the patient wards. Selected readings through medical journals and literature may be assigned and the student will be expected to discuss this material in an informal session.

**Evaluation**

Students will be observed for skills and attitude as well as demonstrating an understanding of the material through performance of history and physicals, diagnosing and suggesting a treatment regimen for the patients in the center.

Grade: Pass/Fail
Prerequisites
Completion of Year III clerkships Psychiatry, Internal Medicine, and Surgery

This Course is identical to: SUR 859

SUR 835

Last Dept. Review Date: 12/12/2018
Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Surgical Boot Camp

SUR 860

Time & Location

Faculty offices, conference areas and community-based hospitals in the Dayton, OH area. Contact hours will be approximately 40 per week.
Lead time required to DROP/ADD elective-30 days.

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Course Director(s) & Faculty

Melissa Roelle, MD, Director, Assistant Professor
Other Department of Surgery Faculty

Course Description

Surgical Boot Camp is a curriculum to prepare our medical students who are entering general surgical or surgical subspecialty training programs. This elective is a two-week course providing intensive training in preparation for internship as a surgical resident. The course will
a) increase knowledge and critical thinking skills for commonly encountered intern patient scenarios;
b) increase technical skills for commonly encountered intern bedside procedures and operative cases; and
c) increase confidence in preparation for managing commonly encountered intern-level clinical problems.

Course Content & Objectives

One component of the Surgical Boot Camp curriculum will consist of augmenting knowledge and teaching critical thinking when approaching commonly encountered patient scenarios. We will review fundamentals and documentation of patient interactions, such as history and physical examinations and consultations, as well as the presentation of these interactions. We will also review approaches to commonly encountered peri-operative patient scenarios, such as chest pain, shortness of breath, fever, hypotension, arrhythmias, mental status changes, and tracheostomy tube dislodgement.

Another component of the curriculum will consist of augmenting basic surgical techniques and teaching new technical skills. This unit will include surgical instrument identification, basic knot-tying and suturing techniques, as well as how to choose the appropriate suture material. We will also review and teach commonly encountered bedside procedures such as placement of a naso-gastric tube, Foley catheter, central line, arterial line, and cricothyroidotomy. We will also review and teach commonly encountered operative cases such as tracheostomy creation, operating the laparoscope, laparoscopic cholecystectomy, laparoscopic appendectomy, open appendectomy, open umbilical hernia repair, and open inguinal hernia repair.

The course will provide deliberate practice to increase comfort with patient scenarios and surgical techniques, and faculty will provide direct, personal, and immediate feedback to the students during the learning sessions.

Learning Methods

The methods for teaching the first portion of the curriculum will include didactics, small group discussions, videotaped presentations, as well as direct and standardized patient interactions. The methods for teaching the surgical skills portion of the curriculum will include didactics, small group discussions, cadaveric dissections, simulator training and review of videotaped procedures.

Evaluation

Throughout the elective. Grade: Pass/Fail.

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Once grades are recorded, students' tests will be de-identified and will be used to determine the efficacy of this novel approach to preparation of students for surgical internship. Students will be asked to provide feedback on the program and their comfort level with learning objectives both pre- and post-course. Students will also be asked to contract to provide follow-up feedback during their surgical intern year regarding the usefulness of this course to their current surgical education via web-based surveys, and release of their intern evaluations to the course director in order to assess needed improvements in the class. Evaluations will be de-identified and compiled prior to analysis.

**Prerequisites**
Completion of Year III AND Match into a general surgery or surgical subspecialty internship year.

SUR 860  Last Dept. Review Date: 1/19/2019  Last Catalog Modification: 1/19/2019
Trauma and Acute Care Nights

Time & Location

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2 week elective. Nights M-F 6pm-6am at Miami Valley Hospital
Max 1 student per block offered

Clinical Elective
Surgical Elective

Capacity: Min 1  Max 1  Drop/Add Days: 30

Half-block.

Course Director(s) & Faculty

Peter Ekeh MD, Faculty
Surgery Faculty
Surgery Resident Staff

Course Description

The trauma service at Miami Valley Hospital, a designated Level I Trauma Center, has an average daily census of 35 – 45 patients with an approx. summer peak of 55 patients. To allow continual assessment and care of the patients on the service 24/7, the team has been divided into two day shifts and a night shift. The student will be an active member of the trauma service on the night shift. The average nightly caseload for the student will be no more than 3 patients on the floor.

Course Content & Objectives

The objectives of the elective are to allow the medical student to fully integrate both basic science and clinical medicine by appreciating the spectrum of fluid and electrolyte, microbiological and physiological needs of the trauma patient. The student will be provided with a unique experience of having exposure to the patients in the emergency department and be afforded the opportunity of the initial evaluation with critique by resident staff and attending surgeons within the Department of Surgery/Division of Trauma. Assigned patients will allow the student, in a sheltered atmosphere of the trauma service, to demonstrate their ability in the evaluation, examination and management of the patients as if they were their own. By the nature of the injuries, students should expect to interact with the various surgical subspecialties and are afforded the opportunity to participate in the surgical care. There is potential for the medical student to be introduced to specific skills including the placement central venous catheters, in addition to skills in surgical technique, suturing ability, minor surgery and flexible endoscopy.

Learning Methods

1. Provide care as a member of the trauma team. Be expected to participate in the initial evaluation and on-going care of the patient; write daily progress notes and orders under the supervision of the faculty and/or resident on the service.
2. Attend daily trauma service sign-out at 0530 and again at 1800. Be present on the floors for daily work rounds and teaching rounds. Use available free time for reading (a reading list will be provided at the beginning of the rotation).
3. Attend weekly Trauma Conference on Thursdays at 0645.
4. Attend weekly Surgical M&M on Mondays at 0700. (optional)
5. Attend weekly Surgery Grand Rounds/Jeopardy at KMC on Wednesdays at 0700.
6. Attend any scheduled cadaver procedure lab.

Evaluation

Students will be evaluated throughout the rotation by the faculty during daily rounds (presentations and procedures). Completion of BSOM Clinical Evaluation Form. Grade: Pass/Fail.

Prerequisites

completion of 3rd year clerkships, surgery clerkship

Wright State University Boonshoft School of Medicine

https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
Full-block.

Course Director(s) & Faculty
Dr. Melissa Roelle

Course Description
Medical education depends upon residents to be teachers of medical students; however prior to entering residency, little formal education exists regarding teaching skills. This elective will help prepare students for their future teaching role. Under the supervision of experienced educators, students will begin teaching junior medical students. While there will be a formal curriculum that includes instructional design principles, giving formative feedback, and techniques of clinical “bedside” teaching, students will conduct teaching experiences in a variety of settings. These settings may include, but are not limited to interviewing and physical exam sessions in ICM, TBL sessions in courses and/or clerkships, or other small group teaching. Additionally, students may assist in the development of on-line tutorials, new educational materials, assessment activities and integrative sessions. Students will work primarily with one course director and outline an individualized elective, beginning with the creation of their own specific educational objectives for this elective.

Course Content & Objectives
Participants in this elective will be able to:
1. Describe basic principles of significant learning and instructional design.
2. Develop educational objectives for their own specific learning goals.
3. Utilize the principles of giving effective feedback through introduction to clinical medicine or other clinical supervisory experiences.

Students may be involved in a variety of teaching experiences, including but not limited to:
1. Small group leaders for ICM interviewing sessions
2. Preceptors for ICM Physical Examination sessions
3. Lead ICM-2 case discussions
4. Develop and/or assist in TBL’s pre-clinically and/or clinically
5. Develop educational materials for on-line tutorials or other technology driven modalities
6. Facilitate small group teaching activities
7. Assist in the development of assessment activities, possibly including writing USMLE style questions, OSCE cases and other self-assessment modules
8. Provide direct observational teaching and feedback on clinical clerkships

Depending on the nature of the individualized elective plan, a final product (i.e., on-line tutorial) may also be required.

Learning Methods
Reading assignments
Evaluation

Students are expected to attend all class sessions and complete all assignments, based on their own personalized learning objectives. Evaluation will be based on participation, effort, and the quality of completed assignments. Students will be expected to self-assess their teaching. Additionally, faculty who will generate written and/or verbal feedback will critique student work.

Grading is Pass/Fail

Prerequisites

Completion of M3 Clerkships

Specific Contact Info:

Dr. Melissa Roelle, melissa.roelle@wright.edu
Ana Hernandez, Student Coordinator, alhernande@premierhealth.com

SUR 880  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
Only Open to WSU Students

Sub-Internship in Gynecology

WOH 801

Course Director(s) & Faculty
Sheela Barhan, M.D.

Course Description
Counts as a Sub-Internship

The student will perform inpatient and outpatient duties as sub-intern on the gynecology department. S/He will learn outpatient management of common GYN complaints, assist at surgery and manage postoperative care. S/He will attend emergency room consultations and under supervision, perform selected outpatient procedures.

Course Content & Objectives

a. Gynecology history and physical examinations
b. Assist major and minor surgical operations.
c. Participate in pre-operation conferences, morning rounds and pathology conferences.
d. Obtain a thorough understanding of benign gynecology.
e. 2 overnight call required

Learning Methods

a. Seminars and case presentations
b. Bedside rounds
c. Outpatient clinical activities
d. Supervised activity in surgical suite

Evaluation

a. Clinical performance at a post-clerkship level
b. Participation in seminars and conferences
c. Grade: Pass/Fail

Prerequisites

Completion of 3rd year Clerkships

Specific Contact Info:
Janece Schaffer-Burbank, student coordinator, janece.schaffer-burbank@wright.edu

WOH 801 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 12/12/2018

Wright State University Boonshoft School of Medi
Only Open to WSU Students

Maternal Fetal Medicine

WOH 807

Only Open to WSU Students

Maternal Fetal Medicine

WOH 807

Time & Location
4-weeks, Miami Valley Hospital.
Lead time required to DROP/ADD elective - 30 days

Clinical Elective Surgical Elective Capacity: Min 1 Max 1 Drop/Add Days: 30

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Clinical Elective Surgical Elective

Full-block.

Course Director(s) & Faculty
David McKenna, M.D., Director

Course Description
The rotation is geared towards exposing the student to the practice of Maternal-Fetal Medicine (MFM). The student will work directly with the MFM attendings and fellows seeing high risk obstetrical patients at Miami Valley Hospital. The student will learn and develop basic ultrasound skills. A short project is required, and time will be allocated for work on the project. The rotation is primarily outpatient, but call (if desired) can be arranged on an individual basis.

Course Content & Objectives
a. Understand and manage common obstetrical, medical and surgical complications of pregnancy.
b. Know the content of and be able to perform a basic obstetrical ultrasound exam.
c. Completion of scholarly project in Maternal Fetal Medicine.

Learning Methods
a. Weekly high-risk obstetrical conferences. The student will be expected to present a recent journal article at one of the conferences.
b. High-risk obstetrical clinics at Miami Valley Hospital.

Evaluation
a. Clinical performance at a PGY-1 level
b. Participation in seminars and conferences
c. Development of basic ultrasound skills
d. Completion of project.
Grade: Pass/Fail

Prerequisites
a. Must have discussed objectives and curriculum with Dr. McKenna prior to registration.
b. Satisfactory completion of Year III Ob/Gyn Clerkship.

Specific Contact Info:
Janece Schaffer-Burbank, student coordinator, janece.schaffer-burbank@wright.edu

WOH 807 Last Dept. Review Date: 12/12/2018 Last Catalog Modification: 12/12/2018

Wright State University Boonshoft School of Medi
https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf
**Obstetrics and Gynecology Boot Camp**  
WOH 815

**Only Open to WSU Students**

**Course Director(s) & Faculty**

Dr. Sheela Barhan, Director  
OB Residents/Faculty, facilitators

**Course Description**

Similar to other boot camps offered as preparation for medical students entering a particular specialty, the OB/GYN Boot Camp would provide an intensive 2 week curriculum to prepare newly matched fourth year medical students for their intern year in an OB/GYN residency program. The boot camp is designed to be a permanent edition to the Biennium II course catalog as an elective offering for fourth year students. Ideally the course will:

- Increase knowledge and critical thinking skills for commonly encountered intern patient scenarios (e.g. OB triage, normal labor and delivery, PPD #0 and POD #0 patient concerns, etc.)
- Increase technical skills including but not limited to suturing, knot tying, incision types, instrument review, sterile technique, draping, laparoscopy and simulations.
- Increase confidence in basic skills for “Day 1” of internship (Foley, NG, PP hemorrhage, pain control, informed consent).

**Course Content & Objectives**

The OB/GYN Boot Camp curriculum will follow objectives outlined in the new 2013 Milestone Project. The Official OB/GYN Milestones have been released from the combined efforts of the ACGME, ABOG, and ACOG. APGO and CREOG have developed a curriculum to prepare obgyn medical students for residency. The Milestones outline the appropriate didactic knowledge, procedural skills, and office practice components developed by the Joint CREOG & APGO Task Force on Preparation for Residency to prepare medical students for residency. While Level 4 competencies or “milestones” correlate with graduate level skills, Level 1 competencies represent milestones expected of an incoming resident.

The OB/GYN Boot Camp will focus on a collection of Level 1 competencies for both obstetrics and gynecology that the fourth year medical student will complete. Examples of such competencies include:

- Demonstration of basic knowledge of normal obstetrical care and common medical complications seen in pregnancy.
- Demonstration of basic surgical procedures including speculum examination and cervical examination.
- Demonstration of knowledge of basic abdominal and pelvic anatomy
- Demonstration of basic surgical principles, including use of universal precautions, aseptic technique, and positioning of patient appropriately for surgery.

The course will provide deliberate practice to increase comfort with patient scenarios and surgical techniques, and faculty will provide direct, personal, and immediate feedback to the students during the learning sessions.

**Learning Methods**

The learning methods for the curriculum will include didactics, simulation lab & laparoscopic training (Brethen Center), suture lab and cadaveric dissections, case presentations, simulated patient encounters, real OR practical exam for mock c-section & mock dilation and curettage. Students will be given pre and post-tests for all competencies with relevant faculty feedback.
Students will take a 100 question APGO Preparation for Residency exam as an “exit exam.” It will be used as a learning tool to guide faculty and preceptor feedback. Once grades are recorded, students’ tests will be de-identified and will be used to determine the efficacy of this novel approach to preparation of students for obstetrical internship. Students will be asked to provide feedback on the program and their comfort level with learning objectives both pre- and post-course. Students will also be asked to provide post-graduate feedback during their intern year regarding the usefulness of this course to their current residency education via web-based surveys. This will enable up-to-date improvements to the boot camp to maintain its clinical and practical relevance. Evaluations will be de-identified and compiled prior to analysis. Pre- and post-tests will also be used as a method of assessing completion of course objectives.

**Prerequisites**
- Completion of 3rd year clerkships
- Match into an OB/GYN categorical or preliminary internship year.

**Evaluation**
Throughout the elective. Grade: Pass/Fail.

WOH 815  Last Dept. Review Date: 12/12/2018  Last Catalog Modification: 12/12/2018
### Course Description

This interdisciplinary elective will provide focused experiences in special issues in women's reproductive health care. Topics will include substance abuse, abortion, sexual assault, domestic violence, and behavioral health. Each topic will be explored through direct observation and participation in patient care at various clinical settings, including inpatient wards, emergency department, hotline and counseling centers, and surgical centers that perform 1st and 2nd trimester elective pregnancy termination. The elective will require students to be able to travel to sites around Montgomery and Greene counties of Dayton, as well as to Cincinnati. Students will spend 2-5 days at each site.

Students will broaden their communication skills in the areas of sexual history taking, trauma counseling, and reproductive options counseling. Students will improve their knowledge base and clinical skills in pelvic exams, psychosocial and cultural issues accompanying the diverse populations represented in the Dayton area.

### Course Content & Objectives

At the end of this course, students will be able to:

a. educate women and adolescents regarding sexual health and preventive health care, contraception and reproductive options.

b. describe the clinical procedures involved in medical vs. surgical pregnancy termination and their respective risks and benefits.

c. respond appropriately to cases of domestic violence or abuse.

d. observe the legal documentation and medical care for the person presenting with complaint of sexual assault.

### Learning Methods

- a. Observation and participation in patient care in hospitals and outpatient clinical settings. The level of involvement will be site dependent.
- b. Assigned readings.
- c. Discussions with peers and faculty.

### Evaluation

- a. Observation of students in clinical settings.
- b. Oral discussions with faculty.

Pass/Fail based on evaluation of participation and clinical work.

### Prerequisites

Completion of third year clerkships.
This Course is identical to:

WOH 805
**Course Director(s) & Faculty**

Dr. Sheela Barhan

**Course Description**

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**Course Content & Objectives**

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8. Provide direct observational teaching and feedback on clinical clerkships

Depending on the nature of the individualized elective plan, a final product (i.e., on-line tutorial) may also be required.

**Learning Methods**

Reading assignments

[https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf](https://bsom.wright.edu/course_catalog/All_BSOM_Courses.pdf)
Evaluation

Students are expected to attend all class sessions and complete all assignments, based on their own personalized learning objectives. Evaluation will be based on participation, effort, and the quality of completed assignments. Students will be expected to self-assess their teaching. Additionally, faculty who will generate written and/or verbal feedback will critique student work.

Grading is Pass/Fail

Prerequisites

Completion of M3 Clerkships

Specific Contact Info:

Dr. Sheela Barhan, sheela.barhan@wright.edu
Janece Schaffer-Burbank, student coordinator, janece.schaffer-burbank@wright.edu

WOH 880   Last Dept. Review Date: 12/12/2018   Last Catalog Modification: 12/12/2018