Elective Opportunities for First and/or Second Year Students

ANES 403
DERM 402
FMME 425
FMME 433
FMME 435
FMME 480
GLBE 401/201
MEDI 435
MEDI 455
MEDI 480
MEDI 483
MEDI 496
OBGN 411
OPHT 402
ORTS 444
OTOL 452
RADY 411
SOCM 403
SOCM 404
SOCM 405
SOCM 407
SURY 421
SURY 474
<table>
<thead>
<tr>
<th><strong>ANES 403</strong></th>
<th>Anesthesiology Research</th>
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</thead>
<tbody>
<tr>
<td><strong>Faculty:</strong></td>
<td>Samuel McLean, M.D., M.P.H.</td>
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<tr>
<td><strong>Prerequisites:</strong></td>
<td>Completion of 1st year medical school and good academic standing (Permission of the course director is required prior to enrollment)</td>
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<tr>
<td><strong>Offered:</strong></td>
<td>All Months (All Blocks)</td>
</tr>
<tr>
<td><strong>Min. Enrollment:</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Max. Enrollment:</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Duration:</strong></td>
<td>One elective period</td>
</tr>
<tr>
<td><strong>Credit Hours:</strong></td>
<td>6</td>
</tr>
<tr>
<td><strong>Meeting Place:</strong></td>
<td>Dept. of Anesthesiology, N2201 North Wing of UNC Hospitals. Phone number 919-966-5136</td>
</tr>
<tr>
<td><strong>Meeting Times:</strong></td>
<td>7:00 AM</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Learning Objectives:</th>
<th>Receive exposure to clinical research within an active multidisciplinary research group.</th>
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<tbody>
<tr>
<td></td>
<td>Perform a literature review, participate in clinical research data collection, and/or perform an individual research project.</td>
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<tr>
<td></td>
<td>Receive exposure to anesthesiology clinical practice.</td>
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<td></td>
<td>Receive exposure to the ethical conduct of research.</td>
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</table>

This course provides exposure to clinical research performed in medical care settings. The department of anesthesiology is involved in a large number of clinical research projects including randomized controlled trials, large scale observational projects, and studies focused on basic disease mechanisms. These studies are based in the operating room, emergency department, and hospital floor. Students participate in research protocols, daily research rounds, and journal clubs. At minimum, students are expected give a presentation at the end of the month on a topic selected by the student and mentor. Students may also elect to perform data collection and/or analysis of data in the context of an individual project leading to completion of an abstract or paper. This would likely require time investment on evenings and weekends and could extend past the completion of the clerkship.

Students will be evaluated by the course director through direct observation and verbal discussion with staff, faculty, and residents. Only 2 absences are allowed during the rotation, including planned absences. All planned absences need to be cleared through the course director prior to the start of the elective. Visiting Students: The Dept of Anesthesiology will not except students for "off-Block" dates, you must apply for UNC dates to be offered a rotation.

City: Chapel Hill
State: NC
Location: Chapel Hill, NC
Date Updated: 12/14/2012
<table>
<thead>
<tr>
<th><strong>Course Code</strong></th>
<th><strong>Course Title</strong></th>
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<tbody>
<tr>
<td>DERM 402</td>
<td>Research in Dermatology</td>
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**Faculty:**
Dr. Rubenstein, Course Director; Drs. Culton, Diaz, Li, Liu, Lugo-Somolinos, Qian, Thomas, and Zedek

**Prerequisites:**
By permission only. Student must contact the course director two months prior to registering for the elective (919-843-7092).

**Offered:**
All Months (All Blocks)

**Min. Enrollment:**
1

**Max. Enrollment:**
4

**Duration:**
Two consecutive elective periods

**Credit Hours:**
12

**Meeting Place:**
405 Mary Ellen Jones Bldg

**Meeting Times:**
8:00 a.m.

**Learning Objectives:**
This elective is designed for the student at any level who desires to spend a minimum of two months full-time in one of the Dermatology Research Laboratories. Depending upon the desires of the student and the preceptor, an opportunity would be available to become acquainted with basic methods in keratinocyte cell biology, tissue culture, immunology, molecular biology, and protein chemistry. Interested students should contact the course director at least two months prior to the anticipated starting date.

**Learning Activities:**
Learning will occur through active participation in 1) student or investigator initiated research projects and 2) departmental research seminars. Students are encouraged to become familiar with the basic science literature relevant to their individual projects.

**Evaluation:**
Students are evaluated based upon their day-to-day effort and performance. Students will have the opportunity to present their work at the departmental research seminar.

**City:**
Chapel Hill

**State:**
NC

**Location:**
Chapel Hill, NC

**Date Updated:**
2/3/2009
FMME 425  International Fieldwork in Family Medicine
Faculty:  Martha C. Carlough, M.D. MPH

Prerequisites: Completion of the first year of medical school for pre-clinical students (FMME 225) Completion of at least six months of clinical rotations for clinical students - 3rd and 4th year (FMME 425) Students are also required to obtain travel health insurance through the Office of International Activities

Offered: July, August, September, October, November, December, January, February, March, May, June (Blocks 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12)

Notes: For 4th year students 1st year students may register for this independent elective as Block 3 of their second year to be included in the tuition package, though the actual dates of elective travel will be in the summer months

Max. Enrollment: 1 (independent course)
Duration: four to six weeks
Credit Hours: 6
Meeting Place: Variable according to placement; discuss with UNC course faculty

Learning Objectives: This elective is intended for primary care oriented, clinical or community health experiences outside of the USA; preferably in a developing country. After completing his/her elective, the student will have gained a broader understanding of global health and be able to compare the health care delivery system and issues in their country/culture of choice with the US. Students should be able to identify strengths and areas of improvement in both systems and make recommendations to improve both systems from a population health perspective.

Learning Activities: Students are expected to take an active role in selecting and designing their elective by meeting with the course director prior to the elective to define objectives, plans for supervision and fulfillment of course requirements. Students must obtain required international travel health insurance for UNC students and sign a travel waiver through the Office of International Activities. The course advisor will assist students in finding international sponsors and appropriate elective sites if needed. Funding is not available through the Department of Family Medicine. Interested students should contact Martha Carlough. Students are expected to complete an evaluation of their elective and additionally to have the on-site preceptor complete an evaluation of their performance.

Evaluation: Project Guidelines: (for evaluation on P/F basis)
Option 1: PAPER
Length: maximum 20 pages, double-spaced
Due Date: One month after completion of rotation. If receiving a grade and credits towards graduation is necessary, this assignment MUST be completed no later than March 30th of the graduation year.

Suggested outline of paper:

Introduction
A. Brief description of the country, cultural and political situation and history
B. Description of the clinic/setting in which you worked, including history, funding sources, population served and major programs and staffing.
C. A Typical Day in the Clinic
D. Major health care issues facing the people and health care resources available
E. Summary, including a discussion of how this experience will affect your future practice of medicine
F. List of references

Option 2: PEER PRESENTATION

This presentation can be in the form of an oral presentation at a UNC-sponsored meeting, or another state or national conference or an article submitted to a peer reviewed journal. The presentation should relate directly to the experience and demonstrate significant insights. Information about this peer presentation should be submitted to the FMME 225/425 course advisor. Commitment to this option must be made (and approval received from advisor) within one month of completion of rotation.

Option 3: PHOTO JOURNAL OR WEB PAGE

For interested students who are tech-savvy, the development of an e-photo journal or web page is also accepted. The intention is that this would be available for students and others to view and learn about the international health experience.

City: Chapel Hill
State: NC
Location: Chapel Hill, NC
Special Notes: Deadline for Enrollment is by April 30 for first year summer electives; on a rotating basis for third and fourth year students. UNC Course Faculty: Martha Carlough, MD, MPH (martha_carlough@med.unc.edu)
Date Updated: 2/3/2010
FMME 433  
Honduran Health Alliance

Faculty: Beat Steiner, MD, MPH

Prerequisites: Approval of instructor

Offered: January, February, March, April, May, June
(Blocks 7, 8, 9, 10, 11, 12)

Notes: Spring/Summer for 1st year students; July for 4th year students

Min. Enrollment: 8
Max. Enrollment: 25

Duration: 1 month
Credit Hours: 6

Meeting Place: Report to Tegucigalpa, Honduras

Learning Objectives:
1. Educate patients regarding aspects of both general and women's health in Spanish and English.
2. Perform a comprehensive well woman exam and patient interview in Spanish and in English.
3. Perform a problem-focused gynecologic exam and patient interview in Spanish and in English.
4. Understand the pathology, diagnosis, and treatment of common gynecologic conditions
5. Understand the geographic, cultural, and socioeconomic conditions affecting Hondurans today
6. Students will create and implement five 1-2 hour interactive presentations on health topics such as sexually transmitted diseases, nutrition, family planning, HIV/AIDS, and menopause to community members of varying ages and literacy levels.

Learning Activities:
Students will attend classes on a weekly basis during the spring semester to prepare them for the July trip. They will travel to Honduras in July where they will remain for approximately one month. While in Honduras they will travel to rural communities and present talks on various public health topics. Students will create and implement five 1-2 hour interactive presentations on health topics such as sexually transmitted diseases, nutrition, family planning, HIV/AIDS, and menopause to community members of varying ages and literacy levels. They will participate in 6 days of our student run clinic. Their activities will include patient interviews, patient exams, patient education, presentations to attending physicians, and mentoring fellow students. Patients will also tour Honduran health facilities in the city of Choluteca. Finally, students will return to their respective rural communities to relate the results of cervical cancer screening and to counsel patients.

Evaluation:
1. Participants will be evaluated by attending physicians based on their clinic performance.
Clinic performance will include physical exam skills, presentation skills, patient relations, and improvement over the course of the week.

Students will receive either a grade of "pass" or "fail".

City: Chapel Hill
State: NC
Location: Chapel Hill, NC
Date Updated: 2/2/2012
FMME 435 Aging and Public Policy

Faculty: Susan Fletcher, MSW

Prerequisites: Advanced undergraduate or graduate standing

Offered: January, February, March, April, May (Blocks 7, 8, 9, 10, 11)

Duration: Semester course

Credit Hours: 3

Meeting Place: Tate Turner Kuralt Building

Meeting Times: Every Monday from 6:00 - 8:50 p.m.

Learning Objectives:
1) Discuss the challenges facing patients as they age.
2) Discuss how current economic, health, and social policy issues affect delivery of care to the elders.
3) Identify the challenges that face the nation with changing demographics patterns.

Learning Activities: Aging and Public Policy is a three credit, interdisciplinary course sponsored by the Institute on Aging. The course is designed to provide students in all disciplines, including graduate students and upper level undergraduates, with a general background in the major economic, health, and social policy issues facing the nation and the state resulting from the aging of our society. The content is relevant to students who plan to work in programs that serve older persons, to researchers in fields related to aging and to students who want to better understand the policy environment associated with the changing demographics of the nation and state. Composition (per week): Lecture: 2 hours, Seminary/Discussion: 1 hour

Evaluation: Evaluation will be based on student projects, and final examinations.

City: Chapel Hill

State: NC

Location: Chapel Hill, NC

Date Updated: 3/28/2008
<table>
<thead>
<tr>
<th>Course Code: FMME 480</th>
<th>Course Title: Aging &amp; Health</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Faculty:</strong></td>
<td>Sheryl Zimmerman, Ph.D. (<a href="mailto:sheryl_zimmerman@unc.edu">sheryl_zimmerman@unc.edu</a>)</td>
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<tr>
<td><strong>Prerequisites:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Offered:</strong></td>
<td>August, September, October, November, December, January (Blocks 2, 3, 4, 5, 6, 7)</td>
</tr>
<tr>
<td><strong>Min. Enrollment:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Credit Hours:</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Meeting Place:</strong></td>
<td>Beard Hall</td>
</tr>
<tr>
<td><strong>Meeting Times:</strong></td>
<td>Tuesdays. 5:00 - 7:50 p.m.</td>
</tr>
</tbody>
</table>

Upon completion of the course, students will be able to demonstrate the following:
1) Knowledge of normal aging phenomena and experiences, including common diseases and functional problems, effects of aging on body systems and mental health and aging.
2) Appreciation for racial, cultural, socioeconomic and other differences among the elderly.
3) Understanding of components of the health care system relevant to older persons, including medication use, long-term care and health care policies.
4) Ability to apply knowledge and skills in the basic concepts that are relevant to living and working with older persons.
5) Appreciation for the multidisciplinary and interdisciplinary nature of aging and related ethical issues.

**Learning Objectives:**

**Classes** consist of a mixture of lectures by experts from across campus, seminar/discussions, media presentations and demonstrations. Presenters are drawn from a variety of fields on the UNC-CH campus and represent medicine, nursing, orthopedics, pharmacy, psychology, public health, social work, sociology and other disciplines. Students will be encouraged to discuss material presented in the lecture and readings. Course directors will integrate the material across topics and sessions. Additional requirements include: 1) conduct and report in writing (3-5 pages) and verbally on site visit of a service delivery program that benefits older adults or on an interview with an elderly person; 2) completion of an academic paper (limit of ten text pages) related to the student's interests and approved by the course directors; and in-class mid-term and final examination.

**Learning Activities:**

The course evaluation has been modified slightly from year to year. In general, student grades have been determined as follows: site visit/interview and presentation - 10%, academic paper and presentation - 40%, class participation - 10%, examinations - 40%.

**City:** Chapel Hill
State: NC
Location: Chapel Hill, NC
Date Updated: 3/28/2008
GLBE 401 - Foundations in Global Health

Faculty: Martha Carlough, course director (Sylvia Becker-Dreps, Ian Martin)

Prerequisites:
1. Completion of the first year of medical school for pre-clinical students (course # GLBE 2XX)
2. Completion of at least six months of clinical rotations for clinical students for 3rd and 4th year (course #GLBE 4XX)
3. Students are also required to complete all requirements as for any UNC medical student traveling abroad through the Office of International Activities

Offered:
July, August, September, October, November, December, January, February, March, May, June (Blocks 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12)

Notes: Rising MS2 students may register for this independent elective as Block 3 of their 2nd year to be included in the second year tuition package, though the actual dates of elective travel may be in the summer months before their 2nd year begins.

Max. Enrollment: 1 (independent course) with permission of course faculty

Duration: Four Weeks

Credit Hours: 6

Learning Objectives:
1. Students will gain a broader understanding of population based global health issues and social determinants of health
2. Students will be able to critically examine various global health topics based on learning from on-line modules, additional readings, interaction with involved faculty and staff, and practical experience
3. Students will be able to identify, describe, and discuss the need for integrated interdisciplinary approaches to global health problems
4. Students will plan/participate in a clinical or community health oriented experience (minimum of 2 weeks) outside of the US which will provide a practical, experiential opportunity in global health
5. Students will develop modules for integration of global health into career paths for medicine

Learning Activities:
1. Completion of 6 on-line global health modules, which should each take 3-4 hours of educational time (including two mandatory modules - Travel Health and Safety, Professionalism, Ethics and Cross-cultural Issues for global health electives). Each module contains:
   " Recorded one hour audio and slides (through Camtesia software) of UNC faculty with expertise in this area presenting on the topic and appropriate for medical student audience
   " Carefully designed objectives for the presentation, integrated quizzes and an assessment of completion
   " Additional learning activities - case studies, suggested activities and contacts for further learning
2. Two short Reflective Papers: (2-5 pages) based on:
1. Global Health/Living Globally book and movie list (see provided list - many of which are in the OIA office for loan, or propose a different one to course faculty)
2. A chapter from "Essentials in Global Health" textbook (available from OIA office on loan) or a critical review of the peer reviewed articles in the resources section of each module
3. A faculty interview with a UNC faculty significantly involved in global health work (see guidelines for faculty interviews)
4. Geojournal: Completion of a "geojournal" prior to travel to familiarize student with the country's specific health and economic issues (template on course site).
4. International learning experience:
   This must be a structured elective experience outside of the USA (minimum of 2 weeks) that is integrated with areas of learning. This may be clinical, research or community health based and interested students will be supported in identifying and arranging opportunities. A resource guide for identifying sites for electives is under development. Preceptor evaluation of experience is required (form available on course website).

Evaluation:
Students will be evaluated through assessment of completion of six on-line modules and related learning activities (50%), two short reflection papers from core articles and global health-related books (20%), and preceptor feedback from international elective experience (30%).

City: Chapel Hill
State: NC
Location: Chapel Hill, NC
Special Notes: Sponsoring Chairman: Warren Newton, MD, Sponsoring Department: (interdisciplinary - through the Office of International Activities of the SOM)
Date Updated: 1/14/2013
MEDI 435  Aging and Public Policy
Faculty:  Mary Altpeter, MSW, MPA; Sheryl Zimmerman, Ph.D.
Prerequisites:  Admission to medical school
Offered:  January, February, March, April, May
          (Blocks 7, 8, 9, 10, 11)
Max. Enrollment:  25
Duration:  Semester Course
Credit Hours:  3
Meeting Place:  To be arranged
Meeting Times:  To be arragned

Upon completion of the course, students should be able to:
1) Discuss the challenges facing patients as they age.
2) Discuss how current economic, health, and social policy issues affect
delivery of care to the elders.
3) Identify the challenges that face the nation with changing demographics
patterns.

Aging and Public Policy is a three credit, interdisciplinary course sponsored
by Institute on Aging. The course is designed to provide students in all
discipline, including graduate students and upper level undergraduates, with a
general background in the major economic, health, and social policy issues
facing the nation and the state resulting from the aging of our society and an
in-depth analysis of an emerging issue. The content is relevant to students
who plan to work in programs that serve older persons, to researchers in
fields related to aging and to students who want to better understand the
policy environment associated with the changing demographics of the nation
and state. Composition (per week): Lecture: 2 hours, Seminary/Discussion: 1
hour

Evaluation:  Evaluation will be based on student projects and final examinations.
City:  Chapel Hill
State:  NC
Location:  Chapel Hill, NC
Date Updated:  5/17/2012
MEDI 435  Aging and Public Policy

Faculty: Mary Altpeter, MSW, MPA; Sheryl Zimmerman, Ph.D.

Prerequisites: Admission to medical school

Offered: January, February, March, April, May (Blocks 7, 8, 9, 10, 11)

Max. Enrollment: 25

Duration: Semester Course

Credit Hours: 3

Meeting Place: To be arranged

Meeting Times: To be arranged

Upon completion of the course, students should be able to:
1) Discuss the challenges facing patients as they age.
2) Discuss how current economic, health, and social policy issues affect delivery of care to the elders.
3) Identify the challenges that face the nation with changing demographics patterns.

Learning Objectives:

Learning Activities:

Aging and Public Policy is a three credit, interdisciplinary course sponsored by Institute on Aging. The course is designed to provide students in all discipline, including graduate students and upper level undergraduates, with a general background in the major economic, health, and social policy issues facing the nation and the state resulting from the aging of our society and an in-depth analysis of an emerging issue. The content is relevant to students who plan to work in programs that serve older persons, to researchers in fields related to aging and to students who want to better understand the policy environment associated with the changing demographics of the nation and state. Composition (per week): Lecture: 2 hours, Seminary/Discussion: 1 hour
Evaluation:  Evaluation will be based on student projects and final examinations.

City:  Chapel Hill

State:  NC

Location:  Chapel Hill, NC

Date Updated:  5/17/2012
MEDI 455  Research in Endocrinology
Faculty:  Drs. Clemmons, Buse, Earp, and Ontjes
Prerequisites:  Admission to medical school and permission of desired faculty preceptor
Offered:  All Months
(All Blocks)
Min. Enrollment:  1
Max. Enrollment:  2
Duration:  One to three months
Credit Hours:  6
Meeting Place:  Thurston Bowles, Room 6111A
Meeting Times:  9:00 am

Learning Objectives:  This course is designed to give the student experience in the experimental approach to solving questions in basic or clinical endocrinology. During the elective the student will work closely with an individual faculty member on a research problem of mutual interest. Students will be expected to plan and carry out appropriate experiments or clinical studies and to write a summary of the results. There will be ample opportunity to participate in conferences and seminars in the Endocrine Division.

Learning Activities:  Per week: Conference: 4 hours, Library: 2 hours, Lab: 26 hours, Read: 8 hours, and Clinical Research: 26 hours
City:  Chapel Hill
State:  NC
Location:  Chapel Hill, NC
Date Updated:  2/6/2006
MEDI 480: Aging & Health

Faculty: Philip Sloane, M.D. (psloane@med.unc.edu), Sheryl Zimmerman, Ph.D. (sheryl_zimmerman@unc.edu), and Leigh Callahan, Ph.D. (leigh_callahan@med.unc.edu)

Prerequisites: None

Offered: August, September, October, November, December, January (Blocks 2, 3, 4, 5, 6, 7)

Min. Enrollment: None

Duration: One semester

Credit Hours: variable

Meeting Place: Cecil G. Sheps Center, 725 Airport Rd.

Meeting Times: 5:00 - 8:00 pm - (Tuesdays)

Upon completion of the course, students will be able to demonstrate the following:

1) Knowledge of normal aging phenomena and experiences, including common diseases and functional problems, effects of aging on body systems and mental health and aging.

2) Appreciation for racial, cultural, socioeconomic and other differences among the elderly.

3) Understanding of components of the health care system relevant to older persons, including medication use, long-term care and health care policies.

4) Ability to apply knowledge and skills in the basic concepts that are relevant to living and working with older persons.

5) Appreciation for multidisciplinary and interdisciplinary nature of aging and related ethical issues.

Learning Activities: Class consists of a mixture of lectures by experts from across campus, seminar/discussions, media presentations and demonstrations. Presenters are drawn from a variety of fields on the UNC-CH campus, and represent medicine, nursing, orthopedics, pharmacy, psychology, public health, social work, sociology and other disciplines. Students will be encouraged to discuss material presented in the lecture and readings. Course directors will integrate the material across topics and sessions. Additional requirements include: 1) conduct and report in writing (3-5 pages) and verbally on a site of a service delivery program that benefits older adults or on an interview with an elderly person; 2) completion of an academic paper (limit of ten text pages) related to the student's interests and approved by the course directors; and 3) in-class mid-term and final examination.

Evaluation: The course evaluation has been modified slightly from year to year. In general, student grades have been determined as follows: site visit/interview
and presentation - 10%, academic paper and presentation - 40%, class participation - 10%, examinations - 40%.

City: Chapel Hill
State: NC
Location: Chapel Hill, NC
Date Updated: 3/10/2008
MEDI 483: AIDS: Principles, Practice and Politics

Faculty: Drs. Ingrid Swenson, Betty Dennis, Charles van der Horst, Ron Strauss, and Rachel Royce

Prerequisites: Admission to Medical School

Offered: January, February, March, April, May (Blocks 7, 8, 9, 10, 11)

Min. Enrollment: 10

Duration: One Semester

Credit Hours: 1

Meeting Place: Lecture Hall

This course offers participants a multi-disciplinary perspective on acquired immunodeficiency syndrome (AIDS), its etiology, immunology, epidemiology and impact on individuals and society. How AIDS is framed by a society determines not only how sick persons are treated by the degree to which the rights of the individual are upheld.

GOAL: To understand the complexity and multi-dimensionality of the evolving phenomenon known as AIDS as a paradigm for the relationship between disease, society and public policy.

COURSE OBJECTIVE:

1. Identify the syndrome of AIDS by describing the etiology, epidemiology, clinical diseases manifestations and treatments.
2. Demonstrate a conceptual understanding of the syndrome by describing how society has framed this disease, the historical background, and the legal and ethical issues associated with it.
3. Demonstrate an understanding of disease implications for HIV-infected people, AIDS patients and their families by describing psychological considerations.
4. Demonstrate an understanding of disease implications for society, by describing infection control measures, contact tracing, education, economics, community resources, the stress of caregiving, and prospects for the future.

Weekly lectures from 5:30 p.m. - 6:45 p.m.

Learning Activities: A two page essay is required and there is only one unexcused absence permitted. The course is Pass/Fail.

Evaluation: TOPICS: 1. Select a serious problem directly related to HIV/AIDS and
discuss facilitators and barriers to its resolution.
2. Select an issue from the course and discuss how it will/does affect persons engaged in your career/profession. Characterize how your profession is and should be responding to this issue.

City: Chapel Hill
State: NC
Location: Chapel Hill, NC
Date Updated: 3/10/2008
MEDI 496  Rural Health Coalition Seminar Series
Faculty:  Staff
Prerequisites:  Admission to medical school
Offered:  August, September, October, November, December, January, February, March, April, May (Blocks 2, 3, 4, 5, 6, 7, 8, 9, 10, 11)
Min. Enrollment:  6
Max. Enrollment:  15
Duration:  One year
Credit Hours:  3

This elective course is designed for members of the NC Student Rural Health Coalition who are participating in the support of the monthly health clinics in Bloomer Hill and Garysburg, North Carolina.

The class is designed as a monthly lunchtime seminar with a significant amount of required field experience and two projects: the development of a community health education project and a journal detailing the student's experiences in working in the monthly clinics. It will also orient students to many of the health care issues facing disenfranchised residents of Eastern North Carolina and will provide an introduction to community-oriented primary care.

The course is designed for second and fourth year students or for students between third and fourth years who are taking a year to study public health.

Learning Activities:  Conference: 1.5 hours/month, Clinic: 4 hours/month, Library: 40 hours/year, Read: 1-2 hours/week, and Projects: 60-80 hours/year

City:  Chapel Hill
State:  NC
Location:  Chapel Hill, NC
Special Notes:  Contact Dr. Pignone at 919-966-2276
Date Updated:  2/6/2006
**OBGN 411**  
The Burns-Waugh Research Fellowship in Gynecologic Oncology

**Faculty:**  
Victoria Bae-Jump, MD, PhD

**Prerequisites:**  
Completion of first year of medical school. There is a competitive application process to this elective. Please contact Victoria Bae-Jump, MD, PhD, for an application packet (victoria_baejump@med.unc.edu).

**Offered:**  
July, August, June

**Notes:** June 3rd - August 30th

**Min. Enrollment:**  
1

**Max. Enrollment:**  
1

**Duration:**  
12 Weeks

**Credit Hours:**  
6

**Meeting Place:**  
Contact Victoria Bae-Jump at least one week prior to the start of the rotation (victoria_baejump@med.unc.edu) for this information

**Learning Objectives:**  
The overall objective of this elective is for the student to explore the dynamic role, responsibilities, and lifestyle of a physician-scientist, specializing in gynecologic oncology. The student will learn about a variety of cellular and molecular laboratory techniques, including tissue culture, metabolic assays, real-time RT-PCR, Western immunoblotting, gene expression profiling, metabolomics and animal model studies. The student will also accompany Dr. Bae-Jump to her clinic and operating room and learn about the management and care of patients with gynecologic cancers.

**Learning Activities:**  
The Burns-Waugh Research Fellow will be exposed to a wide range of cellular and molecular techniques, including working with established cancer cell lines, genetically engineered mouse ovarian and endometrial cancer mouse models and human tumor specimens. Although research is a vital component of the life of a physician-scientist, this is equally balanced with the compassionate care of patients. Oncology clinic and operating room experience will give the fellow an understanding of the medical and surgical treatments, as well as the importance of the patient perspective in fighting gynecologic cancers. Additionally, the fellow will attend several lectures and lunch talks given by UNC faculty about academic medicine, turn in a written summary of their work, and prepare a poster presentation.

**Evaluation:**  
The student will submit an abstract and summary of their work and are expected to participate in the John B. Graham Student Research Society's Student Research Day in the January following their research summer.

**Clinic Program:**  
The student will work in the laboratory of Dr. Bae-Jump as well as shadow her during her clinic and in the operating room.
City: Chapel Hill
State: NC
Location: Chapel Hill, NC

Application Requirements
All parts of the application must be submitted together. For applications, submit a packet that includes the Application for the Burns-Waugh Research Fellowship as a cover document and:
1. An essay that answers the following question (no more than 1 page, 12 pt font):
   a) Why did you decide to pursue this fellowship and what do you hope to gain from this experience in terms of your short and long-term goals?
2. A letter of support from a UNC faculty member.
3. A copy of your current CV.

The student's signature on the fellowship application authorizes the selection committee to query the Office of Student Affairs regarding the student's academic standing. To ensure that this experience does not jeopardize a student's ability to successfully complete medical school course work, students must be in good academic standing. When accepting this fellowship, students who are receiving academic credit must complete an evaluation of the experience as well as all eligibility requirements.

Date Updated: 2/14/2013
OPHT 402  Research in Ophthalmology  
Drs. Baldwin, Borras, Chandler, Cohen, Dutton, C. Fowler, Garg, Giangiacomo, Givre, Gordon, Hartnett, Houghton, Landers, Meredith, Wright, and A. Fowler (Coordinator)  

Faculty:  
Prerequisites:  Project must be arranged with specific preceptor at least one month in advance. Contact individual preceptors to arrange.  

Offered:  All Months  
(All Blocks)  

Duration:  variable, minimum 4 weeks  

Credit Hours:  variable  

Meeting Place:  To be arranged  

Meeting Times:  To be arranged  

Learning Objectives:  
1. Answer an important question or test a hypothesis in Ophthalmology  

Learning Activities:  Gather data through chart review, patient examination/testing or non-human animal studies. 

Evaluation:  Based on participation in laboratory activity, quality and quantity of data gathered, write-up of research proposal, methods and results, and presentation of research at a departmental conference.  

City:  Chapel Hill  
State:  NC  
Location:  Chapel Hill, NC  

Special Notes:  Please see the UNC Department of Ophthalmology's web page to learn about our research interests: http://www.unc eyecare.org/index.  

Date Updated:  3/31/2008
ORTS 444  Precepteeship in Orthopaedic Research

Faculty:  Dr. Dahners

Prerequisites:  Admission to medical school

Offered:  All Months

Notes:  By arrangement

Min. Enrollment:  1

Max. Enrollment:  2

Duration:  Two elective periods

Credit Hours:  12

Meeting Place:  Orthopaedic Research Labs

Meeting Times:  8:30 a.m.

Learning Objectives:

Understanding of how to participate in or undertake a research project pertaining to the physiology, biochemistry, and biomechanics, or ultrastructure of bone, cartilage, or connective tissue.

Students are associated with one of the faculty members in the Orthopaedic Research Laboratories. Specifically, the student will participate in or undertake a research project pertaining to the physiology, biochemistry, and biomechanics, or ultrastructure of bone, cartilage, or connective tissue. At the start of the period the student will work closely with a faculty member and/or their research staff, but will as rapidly as possible, branch off into an independent research project. Time is provided for library study and attendance at seminars relating to research.

Evaluation:

Student will receive a written evaluation at the end of the rotation by attendings and verbal feedback throughout the month.

City:  Chapel Hill

State:  NC

Location:  Chapel Hill, NC

Special Notes:  *Visiting students are not eligible to participate in this rotation.*

Date Updated:  12/19/2011
OTOL 452  Research Experience in Physiologic Acoustics

Faculty:  Drs. Paul B. Manis, Joseph W. Hall, John Grose, Doug C. Fitzpatrick, Emily Buss, Craig Buchman, and Oliver Adunka.

Prerequisites:  Completion of first year

Offered:  All Months

Notes:  By arrangement

Max. Enrollment:  2

Duration:  To be determined

Credit Hours:  variable

Meeting Place:  To be arranged

Meeting Times:  To be arranged

Learning Objectives:  Research experience in basic scientific disciplines related to Otolaryngology/Head and Neck Surgery. The objectives are to:

1. Learn about basic research in auditory physiology, psychoacoustics, immunology and microbiology, or head and neck cancer

2. Learn about research ethics

3. Learn specifics of the scientific literatures and how to evaluation papers

4. Learn to write a scientific manuscript

5. Learn about the grant writing and review process

Learning Activities:  Conference: 2 hours, Library: 2 hours, Laboratory: 8-12 hours, and Lecture: 1 hour.

Evaluation:  Laboratory performance and conference participation.

City:  Chapel Hill

State:  NC

Location:  Chapel Hill, NC

Date Updated:  1/22/2013
RADI 411  Fundamentals of Investigative Radiology

Faculty:  Drs. Semelka, Castillo, Kwock, Molina, Pisano and Yankasaks

Prerequisites:  Completion of first year of medical school and permission of instructor.

Offered:  All Months
(All Blocks)

Notes: By arrangement

Min. Enrollment:  1

Max. Enrollment:  2

Duration:  One or more elective periods by arrangement

Credit Hours:  variable

Meeting Place:  Depends on Faculty Mentor

Meeting Times:  9:00 a.m.

Learning Objectives:
1. Work closely with faculty members conducting research in diagnostic radiology.
2. Investigate research opportunities in animal models of human disease.
3. Explore imaging techniques and perception in vascular and interventional radiology, magnetic resonance imaging, spectroscopy, mammography and a variety of other clinical research areas.
4. Prepare a proposal/protocol and participate in the research as far as time and interest allow.
5. Pursue projects in the field of digital imaging and computer applications in radiology (limited).

Learning Activities:
1. The student will participate in 25 hours of lab research.
2. The student will assist in reading films.
3. The student will participate in all conference activities.
4. The student will be involved in approximately 5 hours of library reading and research

Evaluation:
1. The student will be evaluated in the preparation and organization of the methodology for the research program.
2. The student will be evaluated in the presentation of the results of the research program, which may be in either oral or written form.
3. The student will be evaluated in general conduct, including: ethical behavior, interactions with colleagues and patients (where applicable), adherence to regulation, motivation and work effort.

City:  Chapel Hill
State:  NC
Location:  Chapel Hill, NC
<table>
<thead>
<tr>
<th>Course Code: SOCM 403</th>
<th>Readings and Projects in Social Medicine</th>
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</thead>
<tbody>
<tr>
<td><strong>Faculty:</strong> Drs. Buchbinder, Corbie-Smith, Davis, Estroff, Henderson, Holt, Lyerly, Juengst, Necochea, Oberlander, Roman-Isler, Saunders, Rennie, Sonis, Walker, or any Department of Social Medicine-affiliated faculty member. (Coordinator: Dr. Sanders.)</td>
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<tr>
<td><strong>Prerequisites:</strong> Completion of the first year and permission of a coordinator</td>
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<td><strong>Offered:</strong> All Months (All Blocks)</td>
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<tr>
<td><strong>Max. Enrollment:</strong> N/A (typically individual)</td>
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<tr>
<td><strong>Duration:</strong> 2 or 4 weeks, or throughout semester</td>
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<td><strong>Credit Hours:</strong> 3 or 6</td>
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<td><strong>Meeting Place:</strong> To be arranged</td>
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<tr>
<td><strong>Meeting Times:</strong> To be arranged</td>
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</table>

This elective allows a student to pursue studies of individual interest in some aspect or subfield of social medicine. The medical student first proposes the project to a member of the Social Medicine faculty. Projects may be carried out in Chapel Hill or in a field setting. Readings, archival research, regular conferences with the faculty preceptor, and a major paper on material covered in the project are generally required. If observational fieldwork, interviews, or survey methods are involved, the elective may include relevant training, including securing of IRB approval where appropriate. Depending on the specific project proposed by the student and the availability of a faculty preceptor, this elective could be conducted during a two or four week elective period during the fourth year or in the summer following the first year. Alternatively, it may run concurrently through portions of the second year or concurrently with another elective in the same field site, lasting two or more months.

**Learning Objectives:** Archival research; reading; writing; direct interaction with preceptor; possibly specific research methods training.

**Evaluation:** Formative oral feedback in student/preceptor interaction; written comments on student project.

**City:** Chapel Hill

**State:** NC

**Location:** Chapel Hill, NC

**Date Updated:** 1/27/2012

**Clinical:** N
SOCM 404  Global/International Projects in Social Medicine

Faculty:  Department of Social Medicine and-affiliated faculty.. (Coordinator: Dr. Saunders.)

Prerequisites:  Completion of first year and permission of a coordinator

Offered:  All Months
(All Blocks)

Notes: During a 4 week elective period during the fourth year or 6 weeks in the summer following the first year

Min. Enrollment:  None

Duration:  4-6 weeks

Credit Hours:  6

Meeting Place:  To be arranged

Meeting Times:  To be arranged

This elective allows a student to pursue a project in another country or a project of transnational/global scope related to social medicine, working closely with a member of the Social Medicine faculty already involved in the same field of study or the same country/countries. The medical student must propose a project to a member of the Social Medicine faculty.

International Health:
* To investigate healing practices, care-seeking practices, care delivery systems, healer roles, or health outcomes in a specific cultural setting outside the US.

Global Health:
*To explore contemporary issues and problems in global health through an interdisciplinary perspective.
*To examine the complex tapestry of social, economic, political and environmental factors that affect global health.
*To analyze global health disparities through a social justice and human rights lens.
*To understand and analyze roles and agendas of major players in global health.

Learning Activities:
Readings, archival investigation, and conferences with the faculty preceptor prior to travel. The student will fulfill all activities planned with the preceptor. If observational fieldwork, interviews, or survey methods are involved, the elective may include relevant training, including securing of IRB approval where appropriate. At the completion of the experience, a substantial paper (15-25 pages) or a combination of a journal and photo-essay are expected

Evaluation:  Formative oral feedback in student/preceptor interaction; written comments on student project.
City: Chapel Hill

State: NC

Location: Chapel Hill, NC

Special Notes: Visiting students are not eligible to participate in this rotation.

Date Updated: 1/27/2012
**SOCM 405**  Clinical Epidemiology or Population Health Research

**Faculty:** Drs. Corbie-Smith, Roman-Isler, Sonis, or any Department of Social Medicine-affiliated faculty member with epidemiological expertise. (Coordinator: Dr. Saunders.)

**Prerequisites:** Completion of first year and completion or concurrent enrollment in Clinical Epidemiology

**Offered:** All Months (All Blocks)

**Notes:** By arrangement

**Max. Enrollment:** N/A (typically individual)

**Duration:** 2 or 4 weeks, or throughout semester

**Credit Hours:** 3-6

**Meeting Place:** To be arranged

**Meeting Times:** To be arranged

Opportunities are available for participation in epidemiological or population-level research under the sponsorship of the Cecil Sheps Center for Health Services Research and/or faculty in Social Medicine. Students may design their own projects with faculty mentorship or participate in ongoing projects. Social Medicine faculty members have interests in health manpower, health care financing, rural health services, racial/ethnic and economic disparities in health status and access to care, family violence, health and human rights, and more. The elective may be used to develop a research protocol or complete analysis of a dataset. A major written paper, research protocol, or research report is expected as the product of the experience. The elective can run concurrently during the second year or be taken as an elective in the fourth year.

**Learning Activities:** Variable, typically including archival research, reading, dataset analysis, writing, direct interaction with preceptor and research team members.

**Evaluation:** Formative oral feedback in student/preceptor interaction; written comments on student project.

**City:** Chapel Hill

**State:** NC

**Location:** Chapel Hill, NC

**Date Updated:** 1/27/2012
SOCM 407  Global Health Elective
Faculty: Gail Henderson, PhD, Professor
Prerequisites: Permission of instructor
Offered: August, September, October, November, December
(Blocks 2, 3, 4, 5, 6)
Max. Enrollment: 15 med students (the course is PUBH 496, with -120 graduate and undergraduate students)
Duration: Full semester, once/week, 16 weeks, no breaks
Credit Hours: 3
Meeting Place: Last Tuesday in August, 5-7:30 pm, Location TBA
Meeting Times: 5:00 pm

1. To explore contemporary issues, problems, and controversies in global health through an interdisciplinary perspective
2. To understand key global health problems, their distribution, and prevention strategies
3. To examine the complex tapestry of social, economic, political, and environmental factors that affect global health
4. To understand the complexities inherent in improving health on a global scale
5. To examine the major determinants of, and responses to, poverty and health in developing countries
6. To analyze global health disparities through a social justice and human rights lens
7. To understand and analyze the roles and agendas of major players in global health

Learning Objectives:
1. Attend lectures, do course readings
2. Participate in discussion groups
3. Write 2 papers

Evaluation:
1. Attendance
2. Participation
3. Paper grades

City: Chapel Hill
State: NC
Location: Chapel Hill, NC
Date Updated: 5/21/2007
Clinical: Non-clinical (but may address clinical settings)
SURY 421 Research Elective in Cardiothoracic Surgery

Faculty: Drs. Michael R. Mill, Nirmal Veeramachaneni, Richard Feins, Thomas Egan, Andy C Kiser, and Brett Sheridan

Prerequisites: Admission to Medical School

Offered: All Months

Min. Enrollment: 1

Max. Enrollment: 2

Duration: One elective period

Credit Hours: 12

Meeting Place: Division of Cardiothoracic Surgery, 3040 Burnett-Womack Bldg.

Meeting Times: 8:00 a.m.

The student will:
1. demonstrate perseverance in execution of project-related endeavors (II)
2. collaborate with other professionals (team members)
3. interact with patients and/or colleagues appropriately (III)
4. exhibit advanced project management and communication (oral and written) skills
5. demonstrate familiarity with pertinent current and historical literature
6. use appropriate methodology as designed in collaboration with the mentor
7. apply and demonstrate understanding of appropriate statistical procedures
8. produce a written summary appropriate for a scientific presentation/publication
9. acquaint the student with laboratory methods used to investigate ischemia reperfusion injury

Learning Objectives:

Learning Activities: The student will participate in research seminars, conduct literature searches, collaborate on student or investigator initiated projects. Conference: 5 hours and Lab: 35 hours per week

Evaluation: The faculty mentor will evaluate the student on the design and execution of the project, including analyses. All members of the research team will contribute to the evaluation of the student's skills in communicating and collaborating as part of a team. Students will be expected to assemble some of the data collected for presentation at student research day.

City: Chapel Hill

State: NC

Location: Chapel Hill, NC

Date Updated: 11/19/2008
SURY 474 Research in Urology

Faculty: Drs. Mathew Raynor, Kristy Borawski, Timothy Bukowski, Richard Sutherland, Eric Wallen, Matthew Nielsen Cully Carson, Michael Woods, Davis Viprakasit and Raj Pruthi. Clinical Instructors Mary Dunn, NP-C, Elizabeth Jordan, FNP, Sue, Furloines-Lynn RN, MSN, ANP-C and Heather Schultz RN, MSN, ANP-C

Prerequisites: Completion of first year of medical school

Offered: July, August, September (Blocks 1, 2, 3)

Max. Enrollment: 2

Duration: One elective period

Credit Hours: 6

Meeting Place: TBA

Meeting Times: TBA

The student will:

1. Demonstrate perseverance in execution of project-related endeavors (II)
2. Collaborate with other professionals (team members)
3. Interact with patients and/or colleagues appropriately (III)
4. Exhibit advanced project management and communication (oral and written) skills
5. Demonstrate familiarity with pertinent current and historical literature
6. Use appropriate methodology as designed in collaboration with the mentor
7. Apply and demonstrate understanding of appropriate statistical procedures
8. Produce a written summary appropriate for a scientific presentation/publication

Learning Activities: The student will participate in research seminars, conduct literature searches, collaborate on student or investigator initiated projects.

Evaluation: The faculty mentor will evaluate the student on the design and execution of the project, including analyses. All members of the research team will contribute to the evaluation of the student's skill in communicating and collaborating as part of a team. Observed research effort, motivation and outcome will all play a role as well.

City: Chapel Hill
State: NC
Location: Chapel Hill, NC