

ELECTIVES

UNIVERSITY OF SOUTH ALABAMA
College of Medicine

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Prepared by the
Office of Student Affairs and Medical Education

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Table of Contents

ELECTIVE COURSES BY DEPARTMENT	1
SENIOR YEAR	5
General Instructions	5
Goals and Objectives	5
Promotion Into the Senior Year	5
Block (Rotation) Dates - 2003-2004	5
Planning The Senior Year - Your Faculty Advisor	6
Advanced Cardiac Life Support (ACLS)	6
Graduation Requirements	7
Minimum and Maximum Course Length	7
Starting and Ending Times	7
Longitudinal Electives	7
Grading	7
Waiver of Rules	8
NRMP and Interviewing	8
COURSES AVAILABLE	9
Required Rotations	9
Elective Rotations	10
Community Electives	10
Off Campus (Extramural) Rotations	10
Samuel Eichold, M.D. - Internal Medicine	11
International Health Electives for Medical Students	12
Student's Guide to International Health	12
Medical Student/Resident Guide to Clerkships/Rotations in the Indian Health Service	12
Training Opportunities in Community-Based Primary Care for Physicians and Other Health Professionals in Training	12
Externship Approval Form	13
Off Campus (Extramural) Electives	14
Program Changes	15
Request for Schedule Change	16
Visiting Students	17
Visiting Student Application	18
General Scheduling Information	19
REQUIRED ROTATION REQUEST FORM	20
ELECTIVES REQUEST FORM	22
Courses Available for Required Rotations	24
Courses Available for Elective Rotations	58
Courses Available for Longitudinal Electives	105
Courses Available for Externships - Registration Information	115

ELECTIVE COURSES BY DEPARTMENT

BASIC SCIENCE DEPARTMENTS

Biochemistry

Biochemistry Externship - BCH 400	115
Research in Biochemistry & Molecular Biology - BCH 471	61

Microbiology and Immunology

Microbiology Externship - MIC 400	115
Molecular Basis of Pathogenesis - MIC 447	70

Pharmacology

Pharmacology Externship - PHM 400	115
Clinical Pharmacology & Therapeutics - PHM 422	94
Research in Pharmacology - PHM 441	95

Physiology

Physiology Externship - PHY 400	115
Research in Physiology - PHY 451	96

Cell Biology & Neuroscience

Cell Biology/Neuroscience Externship - CBN 400	115
Advanced Gross Anatomy I - Longitudinal - CBN 401	106
Advanced Gross Anatomy II - Longitudinal - CBN 402	107
Advanced Gross Anatomy III - Longitudinal - CBN 403	108
Advanced Neuroanatomy - Longitudinal - CBN 404	109
Teaching Assistantship - Longitudinal - CBN 405	110
Teaching Assistantship - Longitudinal - CBN 406	111

CLINICAL DEPARTMENTS

Emergency Medicine

Emergency Medicine Externship - EMM 400	115
Special Elective - EMM 444	62
Emergency Medicine - EMM 478	25

Family Practice & Community Medicine

Family Practice Externship - FMP 400	115
Special Elective - FMP 444	64
Primary Care Sports Medicine - FMP 460	67
Advanced Family Practice Preceptorship - FMP 471	26
Maternal- Child Health - FMP 472	65
Community Medicine - FMP 473	66
Acting Internship Family Practice - FMP 475	27
Family Practice Office Elective - FMP 476	28

Genetics

Medical Genetics Externship - GEN 400	115
Special Elective - GEN 444	
Clinical Research - GEN 450	68
The Genetics of Developmental Disabilities & Mental Retardation - GEN 455	69
Explore Your Own Chromosomes - GEN 456	70
Design Interactive Medical Genetics - HTML - Internet - Computer Assisted Instructions (CAI) Modules - GEN 457.....	71
Genetics Attuned to Clinical Residencies (Ob/Gyn, Peds, Family Practice, and Internal Medicine) - GEN 458	72
Early Detection and Prevention of Birth Defects - GEN 459.....	73
Clinical Molecular Genetics - GEN 460.....	74

Internal Medicine

Medicine Externship - MED 400	115
History of Medicine - Longitudinal - MED 401.....	112
Special Elective - MED 444.....	75
Pulmonary Medicine - MED 472.....	29
Endocrinology and Metabolism - MED 473	30
Primary Care/Public Health Preceptorship - MED 474.....	76
Renal Medicine - MED 475.....	31
Cardiology Consultation Service - MED 477	32
Acting Internship - MED 479	33
Coronary Care Unit - MED 480.....	34
Infectious Diseases - MED 481	35
Gastroenterology - MED 484.....	36
Rheumatology - MED 492.....	37

Neurology

Neurology Externship - NRY 400	115
Clinical Neurology - NRY 411.....	78
Special Elective - NRY 444.....	79

Neurological Surgery

Neurological Surgery Externship - NSY 400	115
Neurological Surgery - NSY 411.....	80
Special Elective - NSY 444	81

Obstetrics/Gynecology

Ob/Gyn Externship - OGY 400	115
Special Elective - OGY 444.....	82
Reproductive Endocrinology - OGY 461.....	38
Obstetrics Acting Internship - OGY 462	39
High Risk Obstetrics - OGY 463	40
Ultrasound - OGY 464	83

Ophthalmology
See Surgery

Orthopaedic Surgery

Orthopaedic Externship - OPD 400	115
Orthopaedic Surgery - OPD 421	41
Special Elective - OPD 444	84

Pathology

Pathology Externship - PAT 400	115
Diagnostic Electron Microscopy - PAT 416	85
Pediatric Perinatal Pathology - PAT 417	86
Surgical Pathology - PAT 418	87
Laboratory Medicine for the Practicing Physician Clinical Pathology - PAT 419	88
Forensic Pathology - PAT 424	89
Medicine and Literature - PAT 428	90
Special Elective - PAT 444	91

Pediatrics

Pediatric Externship - PED 400	115
Special Elective - PED 444	92
Pediatric Cardiology - PED 460	42
Acting Internship - PED 461	43
Pediatric Hematology/Oncology - PED 462	44
Pediatric Critical Care/PICU - PED 463	93
Neonatology - PED 465	45
Subspecialty Clinic - PED 466	46
Ambulatory Care - PED 467	47
Gastroenterology and Nutrition - PED 468	48
Pediatric Emergency Medicine - PED 469	49

Radiology

Radiology Externship - RAD 400	115
Statistical Methods in Clinical Medicine - Longitudinal - RAD 401	113
Radiological Physics & Radiation Biology - Longitudinal - RAD 402	114
Basic Radiology - RAD 420	97
Radiology Clerkship - RAD 423	98
Radiation Oncology - RAD 426	99
Pediatric Radiology - RAD 427	100
Special Elective - RAD 444	101

Surgery

Surgery Externship - SUR 400	115
Special Elective - SUR 444	102
Ophthalmology (Rich) - SUR 450	103
Ophthalmology (Semple) - SUR 451	104
Acting Internship - SUR 485	50
Trauma Surgery - SUR 487	51
Otolaryngology - SUR 488	52
Urology - SUR 489	53
Surgery Critical Care - SUR 490	54
Pediatric Surgery - SUR 493	55
Plastic and Reconstructive Surgery - SUR 496	56
Burn Surgery - SUR 499	57

SENIOR YEAR

General Instructions

Goals and Objectives:

The fourth year curriculum has been designed to aid in the advancement of the student's professional education. Each student is asked to consult with his/her Advisor in designing a curriculum which is tailored to the student's interests and career goals. The Advisor functions to encourage each student to use the fourth year:

- (1) To broaden his/her general clinical skills, knowledge and responsibility for patient care;
- (2) To explore potential areas of interest to aid in residency selection;
- (3) To pursue Basic Science electives in research and teaching as appropriate;
- (4) To improve any areas of deficiency.

Promotion Into the Senior Year:

Students must successfully complete all junior clerkships before beginning the senior year. Students who fail a single junior clerkship are usually allowed to take the course over at the beginning of their senior year. All clinical skills cards must be completed, signed, and received in the Office of Student Records by the end of Block 1 in order for students to begin rotations in Block 2. Also, students who have not completed all junior clerkships as a result of leaves of absence or USMLE problems take their clerkship(s) at the beginning of the senior year.

Block (Rotation) Dates - 2003-2004

Block 1	June 30 -	July 25, 2003
Block 2	July 28	August 22
Block 3	August 25	September 19
Block 4	September 22	October 17
Block 5	October 20	November 14
Block 6	November 17	December 12
Block 7	December 15	January 16, 2004*
Block 8	January 19	February 13
Block 9	February 16	March 12
Block 10	March 15	April 9
Block 11	April 12	May 7

* During this five week block, the student and course director determine which week is to be taken for Christmas vacation.

NOTE: ALL BLOCKS BEGIN ON MONDAY AND END ON FRIDAY.

For fourth year students "official university holidays" such as Martin Luther King Day and Mardi Gras Day are given at the discretion of the course director.

Planning The Senior Year - Your Faculty Advisor:

The University of South Alabama Medical College is concerned with the entire experience of its students, including their academic, professional, and personal experience. The faculty advising process at USA attempts to demonstrate this concern in concrete ways. The faculty advisor should provide a liaison between the student, the USA clinical departments and the Mobile area medical community and make important contributions in the shaping of the student as a practitioner. The advisor will provide consultation regarding curriculum choices and residency/specialty selection.

The senior advisor should be selected from the list of faculty submitted from each department. These faculty have been identified as particularly knowledgeable persons who are willing to serve in this respect. By all means select someone with whom you can communicate easily. It is desirable, but not absolutely necessary, that your advisor be in the field of your major interest(s). Ideally he/she should be someone familiar with your clinical performance. It is your responsibility to meet regularly with your advisor.

The faculty advisor's responsibilities are to:

1. Provide guidance and assistance in achieving academic objectives and, in some cases, recommend remediation efforts.
2. Review the advisee's performance in past courses/clerkships, as well as senior-level work. The advisor will meet with the advisee to discuss his/her academic progress.
3. Approve the advisee's senior course schedule and schedule changes.
4. Provide guidance and assistance in developing career goals and, specifically, work with the student and the Office of Student Affairs and Medical Education in the preparation of a list of appropriate residency programs for which the advisee is competitive.
5. Be available, if needed, for personal advising and counseling, and/or direct the student to appropriate resources.
6. Be a liaison between the student and the College in those cases where a faculty advocate is needed.
7. Write a letter of reference to accompany advisee's residency application.
8. Locate "co-advisors" whenever it seems desirable.

Advanced Cardiac Life Support (ACLS):

Students must be officially certified in ACLS during the senior year in order to graduate. Classes are provided exclusively for medical students three times a year (November 13 & 14 , 2003, January 8 & 9, 2004 and March 11 & 12, 2004) by USA EMS personnel on a first-come, first served basis . **It is the student's responsibility to arrange to complete ACLS by graduation. All arrangements (scheduling, changing test dates, etc.) should be made directly with USA EMS Education**

(431-6418). Clinical departments do not have to let you off to take an ACLS course, but most will give you the time if you ask the course director. Don't try to take ACLS on a rotation which gives you primary patient care responsibility (e.g., an AI). If a student cannot fit the USA ACLS course into his/her schedule, written certification from an American Heart Association course elsewhere will be accepted. If permission is obtained in advance to take ACLS elsewhere, or at USA outside of the above scheduled times, the College of Medicine will reimburse up to \$125 after satisfactory completion of the course. If permission is not received in advance the student will be responsible for payment.

Graduation Requirements:

The minimum senior year requirement for graduation is satisfactory completion of 36 credit hours. In general, one week of full-time clinical responsibility is equivalent to one credit hour. This catalog lists the number of credit hours for each course. If you elect to arrange to take an off-campus elective course, the number of credit hours will be determined by our Director of Student Records based on the following: one week full-time equals one credit hour, or partial credit for part time study. Please understand that we calculate the number of credit hours after determination of the actual number of hours you will be working. The individuals teaching the courses do not determine the number of credit hours.

Minimum and Maximum Course Length:

Although University of South Alabama elective courses are designed to be four weeks in length, faculty members often agree to lengthen or shorten courses for seniors. Some courses are specifically available as "2 week electives" (see course description). These courses do not require special permission. If a senior desires to change the length of a course, simply request the change from the faculty member in charge. Report it on a Drop/Add form (see "Program Changes" below). The following College rules apply:

1. No less than three (3) weeks credit may be earned in a single elective course (unless designated 2-week elective).
2. No more than twelve (12) weeks credit can be earned in any single academic area, for example, neurosurgery, cardiology, etc.

Starting and Ending Times:

All electives officially begin at 8:00 am on the first Monday of the scheduled block, and end at 5:00 pm on the last Friday of that period. Both the ending date and time off on holidays are at the discretion of the supervisor of the elective. In some cases, the supervisor may delegate this responsibility to the Resident on the service. You are expected to assume the role of a physician, and in so doing to recognize the needs of patients regardless of weekends and holidays.

Longitudinal Electives:

Some departments offer "longitudinal electives" which involve 1-3 sessions a week for a variable number of weeks and variable credit. Such electives can be integrated with some, but not all, full time electives. You can add these longitudinal electives only after you have completed the initial scheduling process. You will need to select a program of all "block electives" first. After the schedule for the entire class is finished, the feasibility of a longitudinal elective in your

Grading:

Each elective course will provide an evaluation mechanism which is adequate to insure an accurate assessment of the student's progress. It is the responsibility of both the student and the Course Director on the first day of the elective to initiate discussion of the evaluation process. The Course Director is advised to keep the student informed of his/her progress throughout the course. All selectives and electives are graded Honors, Pass or Fail. An evaluation of your performance in an on-campus elective is submitted to the Vice Dean's Office after you have completed a course. **Before you leave for an off-campus elective, it is YOUR responsibility to pick up a blank grading form from Student Affairs and Medical Education and take it to your off-campus Course Director and be sure it is returned to the Office of Student Affairs and Medical Education.**

Waiver of Rules:

In special circumstances it may be possible to waive or modify the above rules. Exceptions must be approved in advance by the Vice Dean or an Assistant Dean.

NRMP and Interviewing - Can a Student be Absent From an Elective and Stay Out of Trouble?

It is now a uniform policy of all medical schools in the country not to release any Dean's Letter before November 1 of a student's senior year. Since the Dean's Letter is an important evaluative tool used by the residency directors in their determination of candidacy for a position, many programs do not initiate candidate interviews until after November 1.

It is extremely important that when students develop their academic plans and elective schedules for the senior year that two situations should be remembered:

1. Residency program interviews will typically occur during the months of mid-late November, December and January;
2. It is strongly advised that a senior student should not attempt to schedule any electives during the period of time that they might be interviewing for a residency program. It must be appreciated that even though a student's need to participate in residency interviews is important for their potential future career, it is also important to recognize that elective directors view participation in clinical activities as equally important. Elective course directors expect full participation in any electives that have been scheduled and may not view positively a student's desire to seek an excused absence from elective participation.

Therefore, students should give special attention to their November-January schedule. They should contact appropriate faculty and discuss his/her requirements related to participation (e.g., will excused absences be allowed for interviewing)? If the answer is yes, when can the days be "made up" or can the student be allowed to receive part credit for the elective (e.g., three weeks credit rather than four)?

COURSES AVAILABLE

REQUIRED ROTATIONS:

One four-week elective from the list provided must be taken at USA in each of the following categories:

1. Surgical Subspecialty:

1. Orthopaedic Surgery - OPD 421
2. Otolaryngology - SUR 488
3. Pediatric Surgery - SUR 493
4. Plastic and Reconstructive Surgery - SUR 496
5. Burn Surgery - SUR 499
6. Trauma Surgery - SUR 487
7. Urology - SUR 489
8. Surgery Critical Care - SUR 490

2. Specialty Acting Internship:

1. Acting Internship Family Practice - FMP 475
2. Acting Internship Medicine - MED 479
3. Acting Internship Pediatrics- PED 461
4. General Surgery AI - SUR 485
5. Obstetrics Acting Internship - OGY 462

3. Subspecialty in Medicine, Pediatrics or OB/GYN:

1. Pulmonary Medicine - MED 472
2. Endocrinology and Metabolism - MED 473
3. Renal Medicine - MED 475
4. Cardiology Consultation Service - MED 477
5. Cardiology/CCU - MED 480
6. Infectious Diseases - MED 481
7. Gastroenterology - MED 484
8. Rheumatology - MED 492
9. Reproductive Endocrinology - OGY 461
10. High Risk Obstetrics - OGY 463
11. Pediatric Cardiology - PED 460
12. Pediatric Hematology/Oncology - PED 462
13. Neonatology - PED 465
14. Gastroenterology and Nutrition - PED 468

4. Ambulatory Care:

1. Emergency Medicine - EMM 478
2. Subspecialty Clinic - PED 466
3. Ambulatory Care - PED 467
4. Pediatric Emergency Medicine - PED 469
5. Advanced Family Practice Preceptorship - FMP 471
6. Family Practice Office Elective - FMP 476

5. TBA*

*The Curriculum Committee is in the process of determining whether the Clinical Neuroscience requirement will be replaced by an additional requirement or by an elective. A decision will be made prior to the March class meeting.

Elective Rotations:

In addition to the 16-20 weeks of required rotations, sufficient elective coursework to provide a total of 36 credits is required for graduation. Twelve of these weeks may be taken off-campus (extramural elective). The remainder must be under the direct supervision of a USA faculty member.

Community Electives:

Senior students may arrange electives with practicing physicians in Mobile and Baldwin County who are clinical faculty members at USA and/or who practice in subspecialty not available at USA (Dermatology, Ophthalmology, etc.) With approval of the Vice Dean, these electives will meet the requirement for 4 weeks of elective credit to be taken at USA.

Off Campus (Extramural) Rotations:

One of the nice things about the flexibility of the Senior year at the University of South Alabama is that you may choose to do some of your senior work "off-campus". This opportunity gives you an opportunity to see how things are done at other schools, as well as a chance to size them up as potential places to do residency training.

Elective courses not listed in the senior electives catalog are called extramural or off-campus electives. After the initial schedules are complete, you may wish to add one or more off-campus electives. Simply follow the steps outlined below in the order listed. Negotiations with the people at the off-campus site should begin as early as possible. This is particularly true, of course, when the elective is in another country. Students enrolled in an off-campus or on-campus elective course may not be paid if credit for that course is desired (military ADT's excluded). Travel and per diem expenses can be accepted if offered.

1. Determine that a given school, hospital or program does accept senior level students for short term training. Catalogs and other resource materials describing electives at various schools and hospitals are located in the Office of Student Affairs and Medical Education at USAMC. Medical school homepages are another excellent source of information.
2. Obtain course name and number, faculty member in charge, course objective and description and exact dates of rotation. Write them on our EXTERNSHIP APPROVAL FORM (green form). Most schools do not have the same block dates that we have; some will work with you to allow you to take the extramural during our time block. For those who will not, you may have to "sandwich" the extramural elective between vacation time. We are aware of a very limited number of Course Directors who will allow you to split an in-house elective.
3. Use the WATS line in the Office of Student Affairs and Medical Education at USAMC to contact the program's electives coordinator. A compendium listing these coordinators is available next to the phone. There are several things you can determine via this phone call. First, of course, is availability at the time you desire

to take the course. Be flexible, if possible, both in the choice of an elective and the dates you can go. If you determine that the course is available at the time you wish to go, ask if the slot can be held for you until you get your paperwork to them. Some schools will hold the slot for a limited period of time-usually a week; others will not hold it at all. Request that they send you an application form and ask if there are provisions for housing, meals, laundry, etc. These are usually not provided. Get the specific name and address of the person to whom you should mail your application.

4. Complete their application form paying particular attention to any special requests such as health certificate, our school seal, registration fees, etc.
5. Complete our green faculty approval form (EXTERNSHIP APPROVAL FORM) and have it signed by the appropriate chairman (e.g., a medicine extramural elective must be approved by our Department of Medicine chairman) and your faculty advisor.
6. Bring their application form (number 4 above) with your portion completed and signed and the completed and signed green EXTERNSHIP APPROVAL FORM to the Office of Student Affairs and Medical Education at USAMC. If all requirements have been met, we will complete our portion of their form and return it to you for mailing. Our green EXTERNSHIP APPROVAL FORM will be placed in your student file.
7. When you receive confirmation (verbal or written), let us know (we are sometimes sent a copy, but often all correspondence is directly with the student). If you do not hear anything within a reasonable period of time, it may be time to make another phone call.
8. Provide the Office of Student Affairs and Medical Education with an address and/or phone number where you can be reached while away.
9. Before you leave, pick up a grade sheet (from either the USAMC or Campus office) and hand carry it to your extramural elective Course Director. At the end of the rotation, you should ask the Course Director to give you the grade sheet to bring back to us. (If he does not wish to do this, just request that he mail it to the Office of Student Affairs and Medical Education at the USAMC.)
10. If you elect not to take an externship for which you have received confirmation, be sure to cancel it (if verbal, make a notation of who you talk to and the date.)

South Alabama faculty have numerous connections with physicians locally, nationally and abroad who would be willing to let you participate in an off-campus experience with them. An example is:

Samuel Eichold, M.D. - Internal Medicine.

Students interested in rural and tropical medicine in a developing nation should ask Dr. Eichold about opportunities at Roosevelt Hospital in Guatemala City.

Additional sources of information on out-of-country or Public Health Service electives are available:

International Health Electives for Medical Students. 1998. Published by the American Medical Student Association (AMSA). These booklets and the one below may be reviewed in the Student Room at the Office of Student Affairs and Medical Education at USAMC. It lists exchange offices of various countries of the world. The AMSA web site also has a section on international health electives for medical students which may be helpful (<http://www.amsa.org/global/ih/ihopps.cfm>)

Student's Guide to International Health. 1993. Published by The American Medical Student Association (AMSA). This publication gives first-hand information about arranging international health electives from the perspective of students who have done it. It also discusses how to prepare for the experience and what to do with what you've learned when you return. Includes a funding guide with ideas for locating or raising the money you need to incorporate this significant experience into your medical education.

Medical Student/Resident Guide to Clerkships/Rotations in the Indian Health Service. 1990. The Indian Health Service offers a variety of excellent opportunities for medical students. Through the CLERKSHIP Program, medical students in their fourth year can elect to participate in either a clinical or an administrative project in an IHS health care facility. This booklet is a useful resource to students who may be looking for an exciting and challenging training opportunity.

Training Opportunities in Community-Based Primary Care for Physicians and Other Health Professionals in Training, Third Edition, 1996.

There has been an increase in the number of community-based systems of care, such as Community/Migrant Health Centers (C/MHCs) and Health Care for the Homeless Projects (HCHPs), which are linking their service mission with their ongoing training needs. This is being accomplished through the provision of clinical externships for those preparing to be members of the primary care provider team who have been seeking more "real world" ambulatory training opportunities in medically underserved communities. This directory lists training opportunities in those community-based systems of care which provided verified information to the National Health Service Corps (NHSC), Health Promotion/Disease Prevention (HPDP) Project by July, 1993.

UNIVERSITY OF SOUTH ALABAMA COLLEGE OF MEDICINE
* EXTERNSHIP APPROVAL FORM *

SCHOOL, HOSPITAL OR PRECEPTORSHIP: _____

TITLE OF COURSE OR EXPERIENCE: _____

(Instructor's Name)

DURATION OF VISIT: _____ TO _____
(Month) (Day) (Year) (Month) (Day) (Year)

COURSE OBJECTIVE:

SAMPLE FORM

COURSE DESCRIPTION:

Student's Name

has my permission to take the elective course
described above.

Signature, Department Chair

Date

Faculty Advisor

Date

Off Campus (Extramural) Electives: How can you get in trouble and how do you keep from doing so?

If the EXTERNSHIP APPROVAL FORM with all of the necessary signatures is not submitted to the Office of Student Affairs and Medical Education PRIOR to your beginning the elective, you will not be covered by professional liability (malpractice) insurance during that elective and in addition, YOU WILL NOT RECEIVE CREDIT FOR THE COURSE. If you come into the Office of Student Affairs and Medical Education after you have finished eight weeks of an off-campus elective and turn in the paperwork then, you will not get any credit for that eight weeks. It will be as if you never did the rotation. No exceptions will be made. This statement is emphasized because there have been seniors in past years who have run afoul of this requirement for one or more of the following reasons:

- A. Some have forgotten to complete the form.
- B. Some have wrongly assumed that paperwork submitted by the student and/or the Office of Student Affairs and Medical Education to another medical school or the military (attesting that the student is in good standing) meets the South Alabama requirements.
- C. Some have left their extramural school's application and our EXTERNSHIP APPROVAL FORM in a faculty member or Chairman's office with the request that the form be signed and mailed to the Office of Student Affairs and Medical Education. The form may or may not make it to our office.
- D. Students have said, "Well, I put it on the secretary's desk or I handed it to her." However, when the student's file is pulled, the document is simply not there. No matter how much we believe you and no matter how much you believe that it is our fault, if the paperwork isn't in your file, it doesn't exist and never did exist.

The happy ending to this story is how easy it is to avoid the problem. Before each rotation starts, simply call the Office of Student Affairs and Medical Education at USAMC and ask if the paperwork is in your file. If it is, then everything is fine. If it isn't, you will have time to track it down or do it again.

Although it is important that the Vice Dean's Office know where you can be reached at all times during the senior year, this is **particularly** true of extramural rotations. The senior year is a time when regular communication needs to be maintained between the Vice Dean's Office and students for such matters as:

- 1. Registration into and continual communication with the NRMP
- 2. Dean's Letters
- 3. Matching Results for PGY 1 year
- 4. Graduation items
- 5. Miscellaneous

You have the responsibility to keep the Vice Dean's Office informed of your whereabouts whether here or away.

PROGRAM CHANGES

When you believe it is in your best interest to drop or add an elective course, the following procedure is to be followed. Remember, electives can be added only on a space-available basis. You can make whatever changes you want in your schedule unless those changes would drop you below 36 weeks.

If you complete your drop/add paperwork at least two weeks prior to the start date of the course and if your dates exactly match the block dates, you are only required to obtain your faculty advisor's signature on the drop/add form. If you wish to make a change within this two week period, it will be at the discretion of the course director and will require the signature of all course directors involved. If you are just switching a course from one block to another and have met the two-week deadline, no signature is required. Simply complete the form and turn it in to the USAMC Office of Student Affairs and Medical Education. The drop/add forms will be date stamped upon receipt by that office.

1. If you wish to add an elective, determine if a vacancy exists by checking the Electives Schedule located in the USAMC Office of Student Affairs and Medical Education. That printout is updated daily.
2. Pick up a "Request For Schedule Change" form (Drop/Add form) from the Office of Student Affairs and Medical Education.
3. Consult with your faculty advisor.
4. Return the form with the necessary signatures on it to the Office of Student Affairs and Medical Education.

You should note that a significant time interval may exist between steps 1 and 4. It is conceivable that more than one senior could be seeking a single vacant slot in an elective. The first student to submit a completed "Request For Schedule Change" form to the Vice Dean's office will get the elective slot. It should be clear that the longer you take to begin and complete the change process, the greater the chance for conflict becomes. Credit **can not and will not begin** until the course is officially on your schedule in the Vice Dean's Office.

Occasionally a student will want to take a course that is filled. The student asks the course director and, wanting to be a "good guy" the course director frequently says, "Fine. Just tell the Vice Dean's office that I will accept another student that block." **THIS DOES NOT WORK. WHEN YOU COME TO THE VICE DEAN'S OFFICE, WE STILL CANNOT ADD THE COURSE.** Don't ask a Course Director to make an exception in your case. This is not fair to other students. If the course could actually accommodate more students, that is, afford them a good educational experience, then the positions should have been open from the beginning. If a course director wants to add openings in his or her course, we have to send a letter to the entire Senior class telling them that a new position has been opened in that class and giving them a deadline to apply for the new position. All of the requests received will be treated equally and chosen by lottery. You can see that the person initiating this mess will have to jump through a lot of hoops and even then may not get the position.

***** *SAMPLE FORM* *****

**UNIVERSITY OF SOUTH ALABAMA
COLLEGE OF MEDICINE**

Request for Schedule Change

Student's Name (Please Print) _____

Date _____

Instructions: This form should be used to drop or add a senior elective course. The drop/add deadline is two weeks prior to the start of a course. The course director may waive the deadline by signing this form.

ELECTIVE TO BE DROPPED:

Course Name: _____ Course Code: _____

Block # or Exact Dates: _____

ELECTIVE TO BE ADDED:

Course Name: _____ Course Code: _____

Block # or Exact Dates: _____

Student's Signature

Advisor's Approval
(Not necessary if only dates/blocks are being changed)

Records Updated by Vice Dean's Office

Electives at the University of South Alabama College of Medicine for Visiting Students

Opportunities: Elective course slots are available for students from U.S. medical schools who have finished at least one year of clinical work. However, South Alabama students have first priority in selecting elective rotations. Because of the timing of preparing the schedules of our own students, we will begin to take action on applications from extramural students for an upcoming year after the first of June.

Rotations: Our electives are of four weeks duration, or multiples thereof. Block dates can be found in this catalog. Generally speaking, we encourage visiting students to conform to our block schedule if at all possible, but exceptions will be considered. We limit all visiting students to a maximum of two months here.

Expenses: Although most departments do not offer a stipend to visiting students, some do (e.g. Internal Medicine, Family Practice, Pediatrics, Neurology and Psychiatry). If interested, you should call the appropriate department and ask for details from the residency program director's office. A tuition payment is not required. Students are responsible for the cost of meals and securing living accommodations.

Malpractice Insurance: Professional liability coverage is required and must be verified by the student's home school. It is available to visiting students for \$45 if the student is not otherwise covered.

Transportation: Each visiting student must arrange his/her transportation (including to and from the airport). Public transportation in Mobile is very limited. An automobile is almost a necessity.

Health Insurance Coverage: Student health insurance is mandatory. Documentation must be provided. You may contact Alabama Administrators at aladmin@aol.com (Misty Calvert) regarding the purchase of student health insurance for foreign visiting students.

Evaluation: We ask that you provide an evaluation form from your school for use by our faculty; otherwise one of ours will be used. It is suggested that you take the completed form with you upon completion of the rotation.

Applications: Please write or call to request an application to take a senior elective course:

University of South Alabama Medical Center
College of Medicine
Office of Student Affairs and Medical Education
2451 Fillingim Street
Mobile, AL 36617
(251) 471-7145
CONTACT: jhamm@usamail.usouthal.edu

We will confirm a position in a senior course for a visitor over the phone, but require that he/she submit a completed application within two weeks. The visiting student may elect to download and print the application on the following page or request that a copy be mailed. Failure to provide the completed application within the two weeks will result in the visitor's name being removed from the course roster and the slot becoming available for other students.

UNIVERSITY OF SOUTH ALABAMA COLLEGE OF MEDICINE
Visiting Student Application

Section I: To be completed by the Student and Dean's Offices of Student's School

Name of Applicant _____ Date _____

Address _____

Parent Medical School _____

Address _____

Title of Elective Course You Wish To Take:

First Choice _____ Block (or dates) _____

Second Choice _____ Block (or dates) _____

Third Choice _____ Block (or dates) _____

Students may list his/her second and third choice dates for the above course, or another elective course choice and dates.

Statement of Dean from Parent Medical School: I certify:

the above named student is in good standing at the _____ School of Medicine and has permission to study for credit at the University of South Alabama College of Medicine during the period listed above.

Signature of Dean or Associate Dean of Parent Medical School

Statement of the Visiting Medical Student: I am aware of the following:

1. Evaluation of my performance while studying at the University of South Alabama College of Medicine will be based on the same criteria as those used to judge matriculated South Alabama students.
2. I am not covered by University of South Alabama health insurance.
3. I must obtain Professional Liability Insurance (malpractice) on the first day of my visiting rotation unless I have documented existing malpractice coverage.
4. I am requested to call as soon as possible if my situation changes and I am unable to take the indicated elective course.

(Signature of Visiting Student)

Upon completion of the form to this point, the potential visiting student should return it to:

Betsy D. Bennett, M.D., Ph.D., Vice Dean
Student Affairs & Medical Education
University of South Alabama Medical Center
2451 Fillingim St., Mastin 202
Mobile, AL 36617-2293

Section II: To be completed at the University of South Alabama

Statement of University of South Alabama College of Medicine Sponsor:

I understand that there is an open student slot in the elective _____ Block (or date) _____ and agree to sponsor and advise this visiting student during his or her visit to South Alabama. I understand that this student may not replace a South Alabama student in the above elective; i.e. more than the maximum number of students listed in the Elective Catalog cannot be scheduled.

Signature of Elective Course Leader, Department Chair,
Department Scheduling Secretary or Authorization by telephone

Approval: This student has been accepted as a visiting student. He or she should report to:

Person: _____ Place: _____

Date and Time: _____

Office of Vice Dean _____

General Scheduling Information

In planning your senior elective program you should consider what courses are most desirable to meet your personal and professional goals. You should then consult with your advisor to discuss specific career directions. When you have an idea of the kinds of courses you want to take, you will be better able to deal with the specifics of the scheduling process.

Scheduling of senior elective courses is done in two phases: required courses and elective courses.

PHASE ONE

The deadline for submission of the **Required Rotation Request Form** is late April. On the following Monday we will attempt to schedule each student's choices for each of the five categories. When more students request to take a course during a specific block than the limit allows, the computer will randomly select students equal to the available number of slots. Students who are not selected will not be scheduled into a course in that required category at that time.

The last part of the first phase of the process involves only those students who failed to receive their choice in one or more of the required course categories. A meeting will be scheduled in early May to resolve the problems of this small group of students.

PHASE TWO

When each student has a complete required rotation schedule, he/she should concentrate on completing his/her schedule with electives. The deadline for submission of the **Electives Request Form** is in mid May. We will use the same randomization system to place students into the elective courses, and will have a final meeting to resolve any remaining problems with student schedules. The drop/add process can begin following that meeting.

During all phases of the scheduling process, the student should be aware that blocks should be reserved for vacation, residency interviews, and off-campus electives. Also, irregularly scheduled electives (e.g., those not to be taken in a regular block) and longitudinal electives should be submitted for scheduling after the drop/add process begins.

SAMPLE FORM

REQUIRED ROTATION REQUEST FORM

NAME: _____ STUDENT NUMBER: _____

IMPORTANT: List your first and second course and block choices in the blanks beside each category. You may list the same course with different block choices (*see Electives manual, <http://southmed.usouthal.edu/com/same>; select Resources for Medical Students*).

CATEGORY	COURSE TITLE/COURSE NUMBER	BLOCK
Surgical Subspecialty		
(1)	_____	_____
(2)	_____	_____
Specialty Acting Internship		
(1)	_____	_____
(2)	_____	_____
Subspecialty in Medicine, Pediatrics, OB/GYN		
(1)	_____	_____
(2)	_____	_____
Ambulatory Care		
(1)	_____	_____
(2)	_____	_____

ADVISOR'S SIGNATURE _____

SUBMIT THIS FORM TO JUDY HAMM, 202 MASTIN, BY APRIL 28

WORKSHEET

<i>1. Rotation</i>	<i>Block</i>
<i>Surgical Subspecialty</i>	
_____	_____
<i>2. Clinical Neuroscience</i>	
_____	_____
<i>3. Specialty Acting Internship</i>	
_____	_____
<i>4. Subspecialty in Medicine, Pediatrics, or Ob/Gyn</i>	
_____	_____
<i>5. Ambulatory Care</i>	
_____	_____

<i>Block</i>	<i>Dates</i>	<i>Elective/Vacation/Off Campus Elective/Etc.</i>
1	06/30 - 07/25	_____
2	07/28 - 08/22	_____
3	08/25 - 09/19	_____
4	09/22 - 10/17	_____
5	10/20 - 11/14	_____
6	11/17 - 12/12	_____
7	12/15 - 01/16	_____
8	01/19 - 02/13	_____
9	02/16 - 03/12	_____
10	03/15 - 04/09	_____
11	04/12 - 05/07	_____

SAMPLE FORM

ELECTIVES REQUEST FORM

NAME: _____ STUDENT NUMBER: _____

IMPORTANT: You have scheduled four blocks of required in-house courses. You should now select *from two to five additional in-house electives* (see *Electives manual*, <http://southmed.usouthal.edu/com/same>; select *Resources for Medical Students*). List your first and second course and/or block choices in the blanks beside each number (two of the five electives must be taken here at the University of South Alabama).

	COURSE TITLE & COURSE NUMBER	BLOCK
(1)	_____	_____
	_____	_____
(2)	_____	_____
	_____	_____
(3)	_____	_____
	_____	_____
(4)	_____	_____
	_____	_____
(5)	_____	_____
	_____	_____

NOTE: Vacations and externships may be taken whenever you wish. It is not necessary to have the externship arranged at this point; just list the block(s) you plan to do an externship.

VACATION: BLOCK(S) _____

EXTERNSHIP: BLOCK(S) _____

ADVISOR'S SIGNATURE _____

SUBMIT THIS FORM TO JUDY HAMM, 202 MASTIN, BY MAY 16

WORKSHEET

	<i>Elective</i>	<i>Block Choice</i>
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____

<i>Block</i>	<i>Dates</i>	<i>Elective/Vacation/Off Campus Elective/Etc.</i>
1	06/30 - 07/25	_____
2	07/28 - 08/22	_____
3	08/25 - 09/19	_____
4	09/22 - 10/17	_____
5	10/20 - 11/14	_____
6	11/17 - 12/12	_____
7	12/15 - 01/16	_____
8	01/19 - 02/13	_____
9	02/16 - 03/12	_____
10	03/15 - 04/09	_____
11	04/12 - 05/07	_____

Courses Available for Required Rotations

(Pages 25 - 57)

(May also be used as an Elective Rotation)

DEPARTMENT OF EMERGENCY MEDICINE

**EMERGENCY MEDICINE
EMM 478**

**DURATION: 4 weeks Full Time
AVAILABILITY: All Rotations**

**J. Randle Adair, D.O.
Marion C. Berg, M.D.
W. Scott McNair, M.D.
Frank S. Pettyjohn, M.D.
Michael L. Sternberg, M.D.
Lynne A. McDonnell, M.D.
P. Conrad McGuire, M.D.**

MAX # STUDENTS: 7

**Available as 2 wk. elective?
YES __ NO x Ask Crs. Dir. __**

OBJECTIVE: - Familiarize senior students with the types, variability and treatment of acute medical and surgical clinical problems seen in an Emergency Department and LEVEL I Trauma Center.

DESCRIPTION & RESPONSIBILITIES: - Students will work side by side with residents and faculty assigned to the Emergency Department. The students will interview and examine patients and recommend appropriate therapy under the supervision of the resident or attending physician. Coverage is provided on a continuing basis by Residents and the Attending faculty of the Department of Emergency Medicine. The supervision of the students will be by the Attending physicians of the Department of Emergency Medicine. In addition, attending physicians from other services will serve as consultants to the physicians in the Emergency Department. The student will rotate shifts. Seminars will include major aspects of emergency medical care. The course will include clinical case reviews.

EVALUATION: - The following aspects of performance will be included for evaluation: Clinical performance will be evaluated by the Emergency Medicine faculty assigned to the Emergency Department during the rotation. Weekly seminar reviews and final performance reviews by faculty will determine overall evaluation rating.

LOCATION: - U.S.A. Medical Center Emergency Department

TIME: - 8:00 a.m., First day of rotation

NOTE: The elective will require 4 weeks full time. Special circumstances requiring split of the rotation will be considered on a case by case basis with written approval required by the course director.

DEPARTMENT OF FAMILY PRACTICE & COMMUNITY MEDICINE

**ADVANCED FAMILY PRACTICE
PRECEPTORSHIP
FMP 471**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

E. Lee Taylor, M.D.

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES__NO__Ask Crs. Dir. x**

OBJECTIVE: - To provide the student the opportunity to gain additional experience in (1) the diagnosis and management of common clinical conditions and (2) skills and procedures performed in the ambulatory setting.

DESCRIPTION: - The student will work under the supervision of a family physician preceptor in the office/community hospital setting. Preceptors are available both in Mobile and in the surrounding area. The student will participate in the care of patients with acute, chronic or emergency medical problems with an emphasis placed on managing patients within the context of the family and their total environment. Special attention will be given to assist the student in meeting his/her specific learning objectives based on the individual student's own interests, capabilities or needs.

RESPONSIBILITIES: - Patient care responsibility will be assigned based on the individual student's ability. An advanced level of responsibility equivalent to an acting internship will be the maximum level of responsibility assigned to students in this elective.

EVALUATION: - Honors/Pass/Fail. Final evaluation will be determined by the course director. The preceptor must submit a written report of the student's performance.

LOCATION: - One of the preceptorship locations in Southern Alabama or other suitable locations approved by the course director.

TIME: - Arrangements for the first day of the rotation should be made through the office of the Predoc Coordinator.

8:00 a.m., First day of rotation.

DEPARTMENT OF FAMILY PRACTICE & COMMUNITY MEDICINE

**ACTING INTERNSHIP
FAMILY PRACTICE
FMP 475**

**DURATION: 4 Weeks full time
AVAILABILITY: All rotations**

E. Lee Taylor, M.D.

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES__NO__Ask Crs. Dir. x**

OBJECTIVE: - To provide students the opportunity to gain additional experience in (1) the diagnosis and management of patients encountered in a Family Practice in-patient service, and (2) improve technical and procedural skills involved in the care of such patients.

RESPONSIBILITIES: - During this rotation the student will serve as an acting intern on the Family Practice in-patient service at the USAMC. The acting intern will function side by side with regularly assigned first-year residents and assume similar responsibilities under the supervision of the ward resident and attending physician. The student (acting intern) will be responsible for the history, physician examination, preparation of a problem list, design of a diagnostic work-up and implementation of a therapeutic regimen. The student will be expected to consult standard textbooks of medicine and current scientific literature in a manner similar to that expected of the first year residents.

EVALUATION: - The student will be evaluated by the ward resident and attending physician.

LOCATION: - U.S.A. Medical Center and USA Children's and Women's Hospital Family Practice Service

TIME: - 7:45 a.m., First day of rotation. Morning Report - Private Dining Room, 2nd Floor, USAMC

DEPARTMENT OF FAMILY PRACTICE & COMMUNITY MEDICINE

**FAMILY PRACTICE
OFFICE ELECTIVE
FMP 476**

**DURATION: 4 Weeks Full Time
AVAILABILITY: Rotations 2-12**

E. Lee Taylor, M.D.

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES__NO__Ask Crs. Dir. x**

OBJECTIVE: - This elective is designed to allow the student the opportunity to participate in the care of patients in the continuity care setting of the Family Practice Center.

DESCRIPTION: - The student will work one-on-one with faculty physicians and Family Practice residents in the departmental ambulatory care clinic.

RESPONSIBILITIES: - The student will see patients on an appointment basis working with faculty and residents. Each patient will be presented to the supervisor prior to disposition. Students will have the opportunity to address acute and chronic medical problems, patient evaluation and preventive health issues to all age groups. The student will be responsible for dictating the appropriate progress note into the record and for assuring that appropriate f/u plans are made. The student will be expected to participate in all departmental teaching conferences.

EVALUATION: - Honors/Pass/Fail.

LOCATION: - U.S.A. Family Practice Center.

TIME: - 8:30 a.m., First day of rotation report to Family Practice Center, USA Springhill

DEPARTMENT OF INTERNAL MEDICINE

**PULMONARY MEDICINE
MED 472**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

Ronald C. Allison, M.D.

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES X NO**

OBJECTIVE - To improve student's ability to evaluate and manage patients with pulmonary diseases and to provide a basic ability to interpret pulmonary function tests and chest radiographs.

DESCRIPTION - The clinical elective in pulmonary medicine may be taken at any time during the senior year.

RESPONSIBILITIES - The student will be responsible for the initial evaluation of patients assigned and will be responsible for presentation of such patients to the resident and attending on the pulmonary service. General hours are from 8:00 a.m. to 5:00 p.m., Monday - Friday. Occasional circumstances will dictate that patients must be seen at hours outside of this schedule. The student may also choose to spend part of the rotation at the USAKPH campus, including the Sleep Disorders Center, by special arrangement.

EVALUATION - The student will be evaluated on presentation of patients, approach to clinical problems, use of the literature in relation to assigned patients, and assigned topics for discussion.

LOCATION - University of South Alabama Medical Center, Pulmonary Division Office, 10th Floor, Suite G.

TIME - 9:00 a.m., first day of rotation

DEPARTMENT OF INTERNAL MEDICINE

**ENDOCRINOLOGY AND
METABOLISM
MED 473**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Barry Warner, D.O.
Kenneth R. Rettig, M.D.**

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES__NO_x Ask Crs. Dir.__**

OBJECTIVE - The objective of this elective is to give the students experience in approaching the work-up, diagnosis, and management of patients with various endocrine and metabolic disorders.

DESCRIPTION - The student will interview and examine patients with pituitary, thyroid, parathyroid, adrenal, gonadal, and other metabolic disorders, including diabetes mellitus. After presentation of the patient to the faculty attending and discussion of diagnosis and management, it will be the student's responsibility to follow the patient's progress during hospitalization.

RESPONSIBILITIES - The student will be required to attend Endocrine Clinic and Endocrine Conference. He will also be expected to read in depth from textbooks and journals in areas pertinent to his patients' problems.

EVALUATION - The student will be evaluated on his/her ability to gather and process clinical information and communicate with physicians and patients.

LOCATION - University of South Alabama Medical Center. The student should call (1) 460-6417, (2) 460-7010, (3) 460-6760, the day before rotation begins for instructions.

DEPARTMENT OF INTERNAL MEDICINE

**RENAL MEDICINE
MED 475**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Michael Culpepper, M.D.
Wanda Kirkpatrick, M.D.**

**MAX # STUDENTS: 3
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE - The objective of this elective is to improve the student's ability to evaluate and manage patients with renal disease, electrolyte disorders and hypertension.

DESCRIPTION - Patient Care - Students examine, evaluate and follow all patients seen for renal consultation in conjunction with the renal resident and under the supervision of the attending nephrologist. Teaching - Daily directed teaching by the attending nephrologist is an integral part of patient rounds. In addition, formal presentations will be provided by both attending and resident on selected topics of renal, acid-base, fluid and electrolyte, and hypertensive pathophysiology. Self-learning is expected through a provided reading list.

RESPONSIBILITIES - Rounds are made daily during the week with the attending nephrologist and resident on the inpatient renal consultation service. Each patient is seen initially by the medical student. The student is responsible for presenting the patient to the resident and/or attending and for continuing follow-up of the patient's progress. Attendance at Medical Grand Rounds and Daily Noon Medical Conference is expected. A reading list is provided and each student is expected to read the recommended references as well as additional literature pertaining to his/her patients' problems. Daily assignments may be made for presenting information on particular aspects of pathophysiology or medical care relevant to the student's patients.

EVALUATION - The students are evaluated on their ability to evaluate patients and formulate plans for diagnosis and management. Also considered in their evaluation will be their patient presentations and presentations given during the rotation.

LOCATION - University of South Alabama Medical Center

TIME - 9:00 a.m., first day of rotation.
Acute Dialysis Center, 8th Floor, USAMC

DEPARTMENT OF INTERNAL MEDICINE

**CARDIOLOGY CONSULTATION
SERVICE
MED 477**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

Clara Massey, M.D.

**MAX # STUDENTS: 3
Available as a 2 wk. elective?
YES__NO_X_Ask Crs. Dir.__**

OBJECTIVE and DESCRIPTION - The objective of this course is to acquaint the student with the principles of diagnosis and management of common cardiovascular disorders including acute and chronic forms of ischemic, hypertensive, valvular, pericardial, and cardiomyopathic heart disease. The student will also receive ample exposure to patients with hypertension, congestive heart failure and cardiac arrhythmias, become familiar with the principles of cardiovascular pharmacotherapy, learn to interpret electrocardiograms and learn to appropriately utilize the various cardiac diagnostic tests.

RESPONSIBILITIES - Students will evaluate patients referred for consultation. Students will perform a cardiac directed history and physical on assigned consultative patients under the direction of the medicine housestaff and cardiology attending. The student will be responsible for observing a defined number of cardiac diagnostic tests and documenting their involvement. The student will be required to interpret 50 electrocardiograms in a 4 week period with direct oversight by a cardiology fellow or faculty member.

EVALUATION - The student will be graded by the faculty attending on the cardiology consultation service.

LOCATION - University of South Alabama Medical Center

TIME - 8:30 a.m., first day of rotation in Suite C on the 10th floor.

DEPARTMENT OF INTERNAL MEDICINE

**ACTING INTERNSHIP
MED 479**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

Stephen H. Greenberg, M.D.

**MAX # STUDENTS: 4
Available as a 2 wk. elective?
YES__NO__Ask Crs. Dir. x**

OBJECTIVE - This elective is designed to provide an opportunity for students to participate in the evaluation and management of in- patients on the Internal Medicine teaching service.

DESCRIPTION - This is a four week general medicine rotation during which the senior student will serve as an acting intern on one of four general medical ward services at the University of South Alabama Medical Center. The acting intern will function side by side with regularly assigned interns and assume similar responsibilities under the supervision of the ward resident and attending physician.

RESPONSIBILITIES - The student acting intern will be responsible for the history, physical examination, preparation of a problem list, design of a diagnostic work-up and implementation of a therapeutic regimen. The student will be expected to consult standard textbooks of medicine and current scientific literature, in a manner similar to that expected of the interns. The student will take call and admissions in rotation with the ward service interns.

EVALUATION - The student will be evaluated by the ward resident and attending physician.

LOCATION - University of South Alabama Medical Center

TIME - 8:00 a.m., first day of rotation in Education Office
Mastin 400L

DEPARTMENT OF INTERNAL MEDICINE

**CORONARY CARE UNIT
MED 480**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

Clara Massey, M.D.

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES__NO Ask Crs. Dir.__**

OBJECTIVE AND DESCRIPTION - The objective of this course is to acquaint the student with the principles and management of acute cardiovascular disease including definite or suspected acute myocardial infarction and its complications, unstable angina pectoris, life threatening cardiac arrhythmias and conduction disturbances, severe congestive heart failure, hypotension and shock. In addition, the student will become familiar with procedures used in the coronary care unit setting such as pulmonary artery catheterization, arterial pressure monitoring and temporary transvenous pacemaker insertion.

RESPONSIBILITIES - Students will serve in an acting intern capacity under the supervision of the medicine residents and the faculty attending. Students will have the opportunity to interpret EKG's on a daily basis with faculty cardiologists and fellows. Students will be responsible for one weekend of call during a 4 month period. The student will not be responsible for night time call during the week.

EVALUATION - The student will be graded by the faculty attending physician on the coronary care unit.

LOCATION - University of South Alabama Medical Center

TIME - 8:30 a.m., first day of rotation in Suite C on the 10th floor.

DEPARTMENT OF INTERNAL MEDICINE

**INFECTIOUS DISEASES
MED 481**

**DURATION:
AVAILABILITY:**

**4 Weeks Full Time
All rotations**

**Keith M. Ramsey, M.D.
John VandeWaa, D.O.
W. Kevin Green, M.D.
Mary Mancao, M.D.
Benjamin Estrada, M.D.**

**MAX # STUDENTS: 3 - Adult ID
 1 - Peds ID
Available as a 2 wk. elective?
YES X NO ___ Ask Crs. Dir. ___**

OBJECTIVE: - Infectious Diseases provides a senior elective in the clinical approach to Infectious Diseases. The objective is to provide the student with the opportunity to learn about a wide variety of infectious diseases, review the appropriate use of antimicrobial agents and be introduced to the basic concepts of hospital epidemiology.

DESCRIPTION: - The elective in Infectious Diseases is designed around the consultation service and the outpatient clinics. Consultations are seen from the medical and surgical services, burn center, medical and surgical intensive care units, pediatric service and from the obstetrical and gynecologic services. A wide ranging spectrum of disease is seen including infectious endocarditis, bacterial meningitis, pneumonia, complications of Acquired Immunodeficiency Syndrome, ICU associated infections, etc. Students also spend 1/2 day per week at the Mobile County HIV clinic supervised by the ID faculty.

RESPONSIBILITIES: - The consultation service sees an average of two to three new consultations per day and maintains on average a service of fifteen patients. Students will evaluate new patients and write progress notes on the patients they are following. They will present their patients to the ID attending on rounds. Students are expected to attend the ID and TB Conferences, and the Mobile County Health Department HIV Clinic each week. Conferences include a weekly Infectious Diseases Case Conference, a weekly TB conference, a noon conference, and a Division Journal Club each month.

EVALUATION: - Honors/Pass/Fail

LOCATION: - U.S.A. Medical Center

TIME: - 9:00 a.m., first day of rotation. Please contact attending on service for location by calling 471-7895 prior to rotation.

DEPARTMENT OF INTERNAL MEDICINE

**GASTROENTEROLOGY
MED 484**

**DURATION: 4 Weeks Minimum Full Time
AVAILABILITY: All Rotations**

Jack A. DiPalma, M.D.

**MAX # STUDENTS: 4
Available as a 2 wk. elective?
YES__NO__Ask Crs. Dir. X**

OBJECTIVE - The basic objective of this elective is to offer the student an approach to clinical problems relating to digestive health.

DESCRIPTION - The clinical elective is a highly structured program designed to provide the student exposure to digestive disorders and physiology. The rotation has patient case experience at USA Medical Center, USA Knollwood Park Hospital and ambulatory clinics. There are didactic lectures, conferences and case-based syllabus teaching and interactive sessions, with electronic media as well as some formal training in nutrition. Students spend time with private gastroenterologists in their practices.

RESPONSIBILITIES - General hours are 8:00 a.m. to 5:00 p.m., Monday - Friday. The student will be responsible to prepare for educational sessions and for evaluation of patients assigned. Students will need to have transportation for the various rotation locations.

EVALUATION - The student will be evaluated on a presentation of patients, approach to clinical problems, use of the literature in relation to assigned patients, and occasional assigned topics for discussion.

LOCATION - University of South Alabama Hospitals and Clinics

TIME - 8:00 a.m., first day of rotation (call GI Office, for schedule and location - 660-5555).

DEPARTMENT OF INTERNAL MEDICINE

**RHEUMATOLOGY
MED 492**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All rotations**

Joe G. Hardin, M.D.

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES X NO__Ask Crs. Dir.__**

OBJECTIVE: - There are three major objectives of this elective: (1) to give the student experience in approaching the evaluation and management of patients with various forms of arthritis and systemic rheumatic diseases, including the common local rheumatic syndromes; (2) to give the student proficiency in a musculoskeletal, particularly joint, physical examination and (3) to help orient the student in dealing with chronic disease in general.

RESPONSIBILITIES: - Responsibilities of the students will include evaluation of all inpatient consults, and the initial or follow-up evaluation of a number of patients seen in the Health Services Foundation outpatient facilities. Following the initial evaluation by the student the entire history and physical (for new patients) or a follow-up evaluation for old patients will be presented to the attending. Therefore, the major student responsibilities will be clinical evaluation and presentation. In addition the student is expected to read the Primer on the Rheumatic Diseases provided for them and additional recommended literature. Dr. Hardin or a rheumatology attending will spend 1-2 hours a day in pure teaching activities. In addition all patients evaluated by the student will be seen with an attending.

EVALUATION: - Students are evaluated in the standard fashion with a pass/fail/honor system. In addition the attending will be in a position to criticize the history, physical examination or presentation of patients on a daily basis.

LOCATION: - University of South Alabama Medical Center and Health Services Foundation Outpatient Facilities.

TIME: - 10:00 a.m., First day of rotation,
HSF Clinic Bldg. Suite **To be determined (call 460-6204)**

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

**REPRODUCTIVE ENDOCRINOLOGY
OGY 461**

Peter Rizk, M.D.

**DURATION: 4 Weeks full time
AVAILABILITY: All rotations
with prior notification to Dr.
Christian M. Yohn, Clerkship Director
(415-1557)**

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES__NO__ Ask Crs. Dir.__**

OBJECTIVE: - Clinical and basic instruction in reproductive endocrinology and fertility.

DESCRIPTION: - This course allows an in-depth exposure to basic and clinical reproductive endocrinology. The setting is primarily ambulatory, with the student working closely with the faculty and the endocrine resident in the evaluation and treatment of infertility, hormonal imbalance, menstrual disorders, hirsutism and male factor infertility. The student participates in the In Vitro Fertilization (IVF), Gamete Intra Fallopian Tube Transfer (GIFT) Intracytoplasmic Sperm Injection, and operative laparoscopy procedures. The student also attends organized lectures in the Division, resident endocrine clinic, faculty surgery, hysterosalpingograms and presents one seminar session on a topic of his/her choice.

EVALUATION: - Student's work will be observed.

LOCATION: - University of South Alabama, Cancer Center/Clinical Sciences Building, Health Services Building and USA-Doctors Hospital.

TIME: - 8:00 a.m., First day of rotation at 324 CC/CB.

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

**OBSTETRICS ACTING INTERNSHIP
OGY-462**

**DURATION: 4 WEEKS FULL TIME
AVAILABILITY: All Rotations**

Kathy Porter, M.D.

**MAX. # STUDENTS: 1
Available as a 2 wk. elective?
YES__NO__ Ask Crs. Dir.__**

OBJECTIVE: - This elective is designed to provide an opportunity for students to participate in the evaluation and management of high-risk OB patients in both inpatient and outpatient settings.

DESCRIPTION: - During this rotation the student will serve as an acting intern on the high-risk service. He/she will function side-by-side with regularly assigned interns and assume similar responsibilities under the supervision of the resident and attending physician.

RESPONSIBILITIES: - The AI will be responsible for the following:

1. High-Risk Inpatient Service
 - a. See the private and MFM patients and write the morning and afternoon notes.
 - b. Review the remainder of the High-Risk patients with the 3rd year student prior to rounds with the Resident.
 - c. Attend Resident work rounds with the High-Risk Resident.
 - d. Participate in Attending Rounds and give 1-2 oral presentations during their month rotation.
2. High-Risk Clinics
 - a. Attend both the High-Risk Resident and the MIC High-Risk Resident Clinic.
 - b. See High-Risk patients under the supervision of the High-Risk Resident.
3. Call
 - a. Take four nights of call during the block.
4. Labor and Delivery
 - a. Be available on the Labor and Delivery unit for further experience in vaginal deliveries.
 - b. Be available for assisting with C/S with staff attending.
 - c. Be available to do postpartum tubal ligations.

EVALUATION: - The student will be evaluated by the residents and attending physicians.

LOCATION: - USA Children's and Women's Hospital

TIME: - 8:00 a.m., first day of rotation in Labor and Delivery, USA Children's and Women's Hospital

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

**HIGH-RISK OBSTETRICS
OGY 463**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All rotations**

Kathy Porter, M.D.

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES __ NO x*Ask Crs. Dir. __**

OBJECTIVE: - This elective is designed for, but not limited to, students interested in obstetrics as a career choice.

DESCRIPTION: - The student will be involved in many aspects of perinatology including:

- High-Risk Pregnancy Consultation: High-risk clinic, high-risk antepartum rounds.
- Special Procedures: Observation of antepartum tests, ultra-sound, amniocentesis.
- Education: Attendance at fetal monitoring teaching, perinatal morbidity, genetics, and perinatal conferences.
- Normal Obstetric Care: Rotation in labor and delivery unit with responsibility for supervised patient management.

EVALUATION: - Residents and faculty will evaluate each student's performance.

LOCATION: - USA Women's & Children's Hospital

TIME: - 7:00 a.m., First day of rotation report to Labor & Delivery at USA Women's & Children's Hospital and ask for the High Risk Resident.

* Under special circumstances, a 2 week High Risk Obstetrics rotation may be available, only if the second 2 weeks are done in an Ob/Gyn discipline. Consult the department chairman for details.

DEPARTMENT OF ORTHOPAEDIC SURGERY

**ORTHOPAEDIC SURGERY
OPD 421**

Frederick N. Meyer, M.D.

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**MAX # STUDENTS: 4*
Available as a 2 wk. elective?
YES __ NO Ask Crs. Dir. __**

OBJECTIVE - To introduce the student to the study of the musculoskeletal system and its diseases.

DESCRIPTION - Acute and chronic orthopaedic management, all phases, with emphasis on fracture care. Weekly conferences in Pathology, Radiology, Structural and Cellular Biology and Pediatric Orthopaedics are held.

RESPONSIBILITIES - The student will be expected to be in the department from 7:30 a.m. to 5:00 p.m., Monday through Friday. The student will have his own patients and participate in the decisions on their care. Students will participate in educational activities of the Department.

EVALUATION - Honors/Pass/Fail

LOCATION - University of South Alabama Medical Center, 503 Mastin
Phone: (251) 471-7937

TIME - 8:00 a.m., first day of rotation

*** Faculty will increase MAX # STUDENTS to 5 if all future blocks are filled with 4 students.**

DEPARTMENT OF PEDIATRICS

**PEDIATRIC CARDIOLOGY
PED 460**

**DURATION: 4 Weeks full time
AVAILABILITY: All rotations**

**David C. Mayer, M.D.
Anne Hackman, M.D.
Lynn Batten, M.D.**

**MAX # STUDENTS:
Available as a 2 wk. elective?
YES x NO Ask Crs. Dir.**

3

OBJECTIVES: - The major objectives of this elective will be to learn how to perform a thorough pediatric cardiovascular history and physical examination; to learn interpretations of chest x-rays and pediatric ECG's; to expand knowledge of the pathophysiology of congenital and acquired cardiovascular disease in infants and children; and to increase understanding of the role of the primary care physician in the diagnosis and management of pediatric cardiovascular disease.

RESPONSIBILITIES: - The student will (1) work up all new patients and new consultations (under the supervision of the attending; (2) write daily cardiology progress notes on all patients; (3) present patients to the pediatric cardiology attending on rounds; (4) participate in the Pediatric Cardiology Clinics; (5) read and review with the attending all pediatric ECG's; (6) attend pediatric case/teaching conferences; (7) help with emergency care, cardiac catheterization and pediatric exercise tests as needed. On an average, the student will work 40 hours per week. A comprehensive "handout" will be given to the student at the beginning of rotation. This contains useful normal-value tables for ECG as well as detailed description of heart murmurs and articles pertaining to common symptoms referred to the cardiologist. A self-instruction audio cassette tape is available on loan for learning cardiac auscultation. The student will make daily pediatric cardiology rounds, see consults, attend Pediatric Cardiology Clinic five half-days weekly, and review all pediatric ECG's with the attending.

EVALUATION: - Honors/Pass/Fail. The student will meet individually with the attending at least once weekly to review the student's progress. No formal written or oral exam will be given, rather, evaluation will be based on informal oral case presentations made throughout the rotation.

LOCATION: - 1720 Springhill Avenue, Suite 500 - Phone: 438-4600

DEPARTMENT OF PEDIATRICS

**ACTING INTERNSHIP
PED 461**

David A. Gremse, M.D.

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**MAX # STUDENTS: 4
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE - The objective of this elective will be to learn to diagnose and manage severely ill children who are hospitalized.

DESCRIPTION - The student will be assigned to the pediatric inpatient service along with the pediatric residents. The student will be assigned patients in rotation with first year level pediatric residents. Direct supervision will be given by the senior resident. Instruction will be given by the attending faculty member.

RESPONSIBILITIES - The student will be responsible for the procedures done on his/her patients and will write all orders which will be countersigned by the senior pediatric resident. The student will have night call duty along with the other residents and attend all residency teaching conferences.

EVALUATION - The student will be evaluated in the following way:

- | | | |
|----|--|-----|
| 1. | Clinical performance in elective | 60% |
| 2. | Comprehensive knowledge as judged by discussion and presentation during rounds | 20% |
| 3. | Reading of assigned material | 20% |

LOCATION - University of South Alabama Children's and Women's Hospital.

TIME - 8:00 a.m., first day of rotation on 5th Floor.

DEPARTMENT OF PEDIATRICS

**PEDIATRIC HEMATOLOGY
/ONCOLOGY
PED 462**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Felicia L. Wilson, M.D.
Yih-Ming Yang, M.D.**

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES NO Ask. Crs. Dir.**

OBJECTIVE - The purpose of this elective is to offer in-depth experience in pediatric hematology/oncology. The student will become familiar with manifestations, diagnosis and management of common blood diseases and malignancies of children. A 2 week elective is to offer a broad experience in pediatric hematology/oncology.

DESCRIPTION - The patient population served by pediatric hematology/oncology includes patients with sickle cell disease, and other hemoglobinopathies, hemophilia and coagulation disorders and childhood malignancies. Multi-disciplinary programs exist for patients with such chronic conditions. Researchers are involved in studies of hemoglobin gene expression and switching mechanism, and clinical investigations on sickle cell disease and cancer.

RESPONSIBILITIES - The student will be responsible for seeing patients on pediatric hematology/oncology service, learn skills in diagnosis and management of children with blood disorders and cancer, become familiar with relevant literature, learn principles of laboratory tests utilized in hematology/oncology and learn psychosocial aspects of chronic disease patients.

<u>EVALUATION</u> -	Performance with aspect to patient care	50%
	Reading-knowledge - seminar	20%
	Blood cell morphology and interpretation of blood films/laboratory findings	15%
	Attitudes appropriate for care of patients with cancer and hematological disorders	15%

LOCATION - USA Doctor's Hospital and USA Children's Medical Center

TIME - 8:30 a.m., first day of rotation (if Monday or Tuesday) at the Hematology-Oncology Clinic in USA Children's Specialty Clinic, SHAC 1430, or contact Pediatric Hematology/Oncology Division for the place to meet with the attending faculty.

DEPARTMENT OF PEDIATRICS

**NEONATOLOGY
PED 465**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Richard Whitehurst, M.D.
Neonatology/CWH**

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES __ NO x Ask Crs. Dir. __**

OBJECTIVE - To provide clinical experience in care of sick neonates. The senior student will function as an acting intern in the Newborn Intensive Care Nursery to build upon the experience acquired in the junior clerkship.

RESPONSIBILITIES - The student will be responsible for attending admissions to the Newborn Intensive Care Nursery. He/she will do initial workups and evaluations. He/she will be responsible for planning patient care and will be responsible for doing those procedures assigned to him/her by the resident in the unit. The student will do independent library research on selected topics concerning newborn care.

The student will take night call every 4th night with the resident. There should be 60-65 admissions during one month to provide adequate patient material for learning.

Supervision will be by the senior resident in the nursery and by the attending Neonatologist in charge at the time.

EVALUATION:

1. Observation by attending of the performance of the student
60%
2. Comprehensive knowledge judged by discussions with the student
20%
3. Reading of assigned material 20%

LOCATION - University of South Alabama Children's and Women's Hospital, Intensive Care Nursery

TIME - 8:00 a.m., first day of rotation

DEPARTMENT OF PEDIATRICS

**SUBSPECIALTY CLINIC
PED 466**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

Kenneth R. Rettig, M.D.

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVES -

1. Obtain an exposure to all the Pediatric Subspecialties available in clinic.
2. Demonstrate an understanding of the long term management problems encountered in a Pediatric Subspecialty Clinic.

RESPONSIBILITIES/DESCRIPTION - The student will select a number of different Pediatric Subspecialty Clinics to make up a full time elective. A wide range of different subspecialties should be chosen. The student will attend all selected clinics and evaluate all patients designated by the Attending Physician. The students will then present the patients to the Attending Physician. The student will be responsible for satisfactory completion of the medical record.

The student can gain clinical experience by interacting with all patients presenting to the Subspecialty Clinics. From time to time the faculty may give reading assignments to the student or request that the student research the medical literature on a topic.

EVALUATION - The student will be directly supervised by attending physicians in the clinic. He/she will be evaluated based on interaction and discussions with the attendings.

LOCATION - University of South Alabama Children's Specialty Center at SHAC. Contact Dr. Rettig at 470-1664 two weeks prior to starting the rotation to select the subspecialty clinics to be attended.

TIME - 8:00 a.m. to 5:00 p.m. Monday through Friday.

DEPARTMENT OF PEDIATRICS

**AMBULATORY CARE
PED 467**

Jorge Quiñonez, M.D.

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE - To offer a full time comprehensive experience in Ambulatory Pediatrics Practice. The student should become proficient in the diagnosis and management of common Pediatric disorders and health maintenance of the well child.

RESPONSIBILITIES/DESCRIPTION - The student will evaluate all assigned patients and present them to the Attending Pediatrician. The student will be responsible for coordinating all diagnostic testing and treatment and arranging follow-up for patients. The student will complete the medical record in a satisfactory manner.

The student will be assigned patients with a wide variety of Pediatric problems and will learn by discussion with the Attending Pediatrician and by reading assigned to complement particular clinical experiences.

EVALUATION - The student will be directly supervised by the Attending Pediatrician in Clinic. He/she will be evaluated based on interaction and discussion with the attendings.

LOCATION - University of South Alabama Children's Medical Center, 1504 Spring Hill Avenue. Contact Dr. Quiñonez at 434-3971 prior to starting the rotation.

DEPARTMENT OF PEDIATRICS

**GASTROENTEROLOGY &
NUTRITION
PED 468**

**DURATION: 4 Weeks Full Time
AVAILABILITY: Blocks 2-12**

David A. Gremse, M.D.

**MAX # STUDENTS:
Available as a 2 wk. elective?
YES__NO__x Ask Crs. Dir. __**

1

OBJECTIVE - The major objectives of this elective are:

1. to learn how to take a careful history and perform a general physical examination in children with gastrointestinal or hepatic disease.
2. to expand the student's understanding of basic gastrointestinal and hepatic physiology and pathophysiology.
3. to increase the student's awareness of infant and childhood nutrition and to improve his/her understanding of enteral and parenteral nutrition.

DESCRIPTION - The student will make daily rounds with the attending physician, will see all consults to the GI/Nutrition service, will attend weekly pediatric GI clinic, and will attend all elective procedures (e.g. upper and lower endoscopies).

RESPONSIBILITIES - The student will:

1. work up all new patients admitted to the GI/Nutrition service.
2. perform the initial evaluation of all consultations and write a consultation note under the supervision of the attending physician.
3. attend weekly GI/Nutrition clinic.
4. attend all regularly scheduled GI procedures.

EVALUATION - The student will be evaluated by Dr. Gremse.

LOCATION - USASH, 1504 Spring Hill Avenue - contact Dr. Gremse at 434-3974 prior to starting the rotation.

TIME - 8:00 am, first day of the rotation.

DEPARTMENT OF PEDIATRICS

**PEDIATRIC EMERGENCY
MEDICINE
PED 469**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

Cris Cole, M.D.

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE - The objective of this elective is to provide the student with adequate exposure to a variety of acute illnesses in children which require management of an urgent/emergent nature.

DESCRIPTION - The student will be assigned to the Evaluation Center (EC) at USA Children's and Women Hospital along with the pediatric residents assigned to that area. The student will have initial contact with patients taking the history and performing the physical examination. These results, together with a differential diagnosis and proposed management plan will then be reported to an attending physician or senior pediatric resident. As a result of this clinical experience, the student will learn to identify and manage acute medical problems in children. The student will also get experience in decision making regarding the necessity of hospitalization for certain cases. As a part of the evaluation of these children, the student will be instructed in the performance of a number of procedures including venipuncture, starting intravenous fluids, lumbar puncture, arterial blood gas, laceration repair and and splint/cast placement. The student will also assist in management of children with cardiorespiratory arrest. Direct supervision will be given by the attending physician or senior resident.

RESPONSIBILITIES - The student will be responsible for all procedures done on his/her patients and will be responsible for carrying out the management plan once discussed with the supervising physician. The student will have duties and responsibilities as those of first year pediatric housestaff who are assigned to the Evaluation Center.

EVALUATION - The student will be directly supervised by pediatric attendings and senior residents in the Evaluation Center. The student will be evaluated based upon her/his interaction with these supervising physicians and the development of appropriate differential diagnoses and management plans for the patients the student has seen.

LOCATION - Evaluation Center (EC) at USA Children's and Women's Hospital.

TIME - 7:00 a.m. first day of rotation

DEPARTMENT OF SURGERY

**ACTING INTERNSHIP/GENERAL
SURGERY
SUR 485**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

Bartel F. Turk, M.D.

**MAX # STUDENTS: 3
Available as a 2 wk. elective?
YES__NO__x Ask Crs. Dir.__**

OBJECTIVE: - This elective is designed to provide an opportunity to the student to increase his/her exposure to the evaluation and treatment of surgical disease.

DESCRIPTION: - The student will serve as an acting intern on one of the general surgery services at USA Medical Center or Knollwood Park Hospital. He/she will function as an intern under the supervision of the surgical faculty.

RESPONSIBILITIES: - The student will participate in the initial evaluation, perioperative and postoperative management of surgical patients. The student will be expected to participate in daily work rounds, inpatient and emergency room consultations, clinics and weekly teaching conferences. The student will be expected to take call. The student will have many opportunities to perform minor procedures and operations under direct supervision of residents and surgical faculty.

EVALUATION: - The student's evaluation is based upon faculty observation of performance with special regard to his or her fund of knowledge, clinical skills, technical abilities, decision making and judgment.

LOCATION: - University of South Alabama Medical Center or Knollwood Park Hospital.

TIME: - 8:00 a.m. first day of rotation in the Education Office, Mastin 709 (Cheryl Davis, 471-7990). The student will also meet briefly with Dr. Bartel Turk.

DEPARTMENT OF SURGERY

**TRAUMA SURGERY
SUR 487**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All rotations**

Richard P. Gonzalez, M.D., F.A.C.S.

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE: - The objective of this elective is to provide exposure in the management of the trauma victim. The student will develop a working fund of knowledge and experience with prehospital emergency care, resuscitation and evaluation of the trauma victim, and critical care management. This rotation is meant to supplement the basic surgery elective by providing an acting internship that focuses on all aspects of trauma care.

DESCRIPTION: - Acting internship experience. Call schedule is flexible. Emphasis is placed on resuscitation procedures and ICU care.

RESPONSIBILITIES: - The student will function as a sub-intern and vital member of a trauma team. Each trauma team will be composed of a Chief Resident and two junior residents (R3 and R1). The entire team will have the responsibility of evaluating and managing all trauma victims. There may be junior medical students also assigned to the trauma service.

EVALUATION: - Student evaluation is based upon resident and faculty observation of performance with special regard to his or her knowledge, patient management and technical abilities and judgment.

LOCATION: - U.S.A. Medical Center

TIME: - 8:00 a.m., First day of rotation in the Education Office, Room 709 (471-7990).

DEPARTMENT OF SURGERY

**OTOLARYNGOLOGY
SUR 488**

**Richard Gacek, M.D.
Frederick Silver, M.D.**

**DURATION: 4 Weeks full time
AVAILABILITY: All rotations**

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: - Approval by course preceptor.

OBJECTIVE: - The objective of this elective is to provide a broad and in-depth experience in otolaryngology problems. This will include both clinical lectures, participation in operating room, clinical and ward duties and outside readings.

DESCRIPTION: - Sub-internship

EVALUATION: - Student evaluation is based upon resident and faculty observation of performance with special regard to his or her knowledge, patient management and technical abilities and judgment.

LOCATION: - Health Services Building - Suite 1600

TIME: - Call 414-8216 for more information prior to first day of rotation Contact person: Nan Johnson

DEPARTMENT OF SURGERY

**UROLOGY
SUR-489**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

John A. Boullier, M.D., Ph.D.

**MAX. # STUDENTS: 3
Available as a 2 wk. elective?
YES __ NO Ask Crs. Dir. __**

OBJECTIVE: This elective course is designed to provide the senior student experience and knowledge in the field of urology with particular emphasis on such topics as management of urologic cancers, incontinence, diseases of the prostate, stone disease and urologic reconstructive surgery.

DESCRIPTION: Students will participate in the University's Urologic Clinics as well as the care of the inpatient service. The students also will be exposed to the surgical and endoscopic management of urologic diseases and participate in the operating room in these procedures. The elective is useful for students who wish to explore a possible career in urology, but will also be of interest to students who desire a broader exposure to genito-urinary disease than they have had in their previous work.

EVALUATION: Student evaluation is based on resident and faculty observation of performance with special regard to his or her knowledge, patient management and judgment.

LOCATION: USAMC 10th Floor - Suite F

TIME: Call 471-7542 for more information prior to first day of rotation.

DEPARTMENT OF SURGERY

**SURGERY CRITICAL CARE
SUR-490**

**DURATION: 1 Month
AVAILABILITY: All Rotations**

Richard P. Gonzalez, M.D.,F.A.C.S.

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE - The elective is designed to introduce the student to principles and practice of care for the complex, critically ill and injured surgical patient. The goal is to create a rudimentary understanding of pathophysiologic changes that occur in the critically ill patient as well as the diagnostic modalities utilized to discern factors that contribute to and perpetuate critical illness and the therapeutic and supportive therapies used to maintain or restore normal physiologic homeostasis. Within this goal, the student will have the opportunity to learn the basics of hemodynamic monitoring and support, ventilatory support, nutritional support, pharmacologic support and antimicrobial use as these apply to the critically ill surgical patient.

DESCRIPTION - The student will be integrated into the multidisciplinary critical care team which will be comprised of resident and attending physicians, nurses, nutritionist and clinical pharmacologist. Teaching rounds are carried out on a daily basis and constitute the major framework of attending-based education. Small group conferences are also held weekly addressing salient aspects of critical care. Critical Care lectures will be given on a bi-weekly basis.

RESPONSIBILITIES - The student will be required to attend and participate in daily rounds as well as clinical conferences. He/she may be asked to assume responsibility for patient presentations. Daily activities will generally be dictated by patient care requirements and include data collection and analysis as described in the objectives section above. Students will be working alongside resident physicians including either an R-1 or R-2 surgical resident. The student will have the opportunity to participate in multiple aspects of cardiopulmonary analyses and therapeutic decision making for all patients in the STICU. The average daily census is approximately 12 patients. Technical practice in monitoring line insertion, complex wound care and other skills is also available. Night and weekend call is not required, but if desired, can be arranged.

EVALUATION - The student will be evaluated based upon clinical participation and demonstration of knowledge and conceptual acquisition, particularly during morning rounds. Grading will be assigned on a pass/fail/honors basis.

LOCATION - Surgical Education Office

TIME - 8:00 a.m., First day of the rotation in the Education Office Room 709, 471-7990.

DEPARTMENT OF SURGERY

**PEDIATRIC SURGERY
SUR 493**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Randall W. Powell, M.D.
Andrew Walker, M.D.**

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE - Expose the student to surgical problems in the pediatric age group and the approach to diagnosis, treatment and follow-up of these problems.

RESPONSIBILITIES - The student(s) on the Pediatric Surgery Service will function as a member of the Service and will be expected to participate in all activities of the Service. History and physicals on assigned patients will be evaluated and critiqued. Students are expected to be active participants in the operating room and participate in the postoperative care of all the patients during their rotation. Students will attend all clinics each week and will be expected to perform initial evaluations of clinic patients to be reviewed by the attending. The residents and staff will attempt to notify the student (per their request) of interesting cases during off hours. The student may prepare an oral presentation on a topic mutually selected by the student and attending for presentation to the service. The attending will provide a list of reference books for the student. Teaching rounds will be conducted at least tri-weekly (usually daily). The students will be supervised at all times by the surgical housestaff or attending surgeon.

EVALUATION - Student evaluation is based upon resident and faculty observation of performance with special regard to his or her knowledge, patient management and technical abilities and judgment.

LOCATION - USA Children's & Women's Hospital (Nursery, Pediatric Wards, PICU), USAMC (Trauma), USA Surgical Specialists Center (Center Street).

TIME - 7:30 a.m., first day of rotation - USA Children's & Women's Hospital (Physicians Lounge near operating room).

DEPARTMENT OF SURGERY

**PLASTIC AND RECONSTRUCTIVE
SURGERY
SUR-496**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

Curtis N. Harris, M.D.

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE - The objective of this elective is to provide some basic knowledge of plastic and reconstructive surgery and to provide an overview of the areas covered, i.e., hand, head and neck cosmetic surgery and trauma as related to plastic surgery.

EVALUATION - Student evaluation is based upon faculty observation of performance with special regard to his or her knowledge, patient management and technical abilities and judgment. Participation in surgery and in the office is required in order to obtain satisfactory grading.

LOCATION - University of South Alabama Hospitals and Clinics.

TIME - Contact Dr. Harris at 660-5750 for authorization of rotation.

DEPARTMENT OF SURGERY

**BURN SURGERY
SUR 499**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Arnold Luterman, M.D., F.R.C.S.(C),
F.A.C.S.
Karen E. Frye, M.D.**

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE - The objective of this elective is to provide knowledge of burn patient care. All aspects of burn care will be learned. This will involve acute management which will develop in the student through knowledge and experience in intensive care techniques, respiratory management, wound care, nutrition and physiotherapy. The reconstructive management will also be taught and the student will actively participate under supervision in all areas.

DESCRIPTION - Sub-internship experience in patient care

RESPONSIBILITIES - Sub-internship

EVALUATION - Student evaluation is based upon resident and faculty observation of performance with special regard to his or her knowledge, patient management and technical abilities and judgment.

LOCATION - University of South Alabama Medical Center, 715 Mastin

TIME - 8:00 a.m., first day of rotation, in the Education Office, Room 709, 471-7990

Courses Available for Elective Rotations

(Pages 59 - 104)

DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

**RESEARCH IN BIOCHEMISTRY
AND MOLECULAR BIOLOGY
BCH 471**

**DURATION: 4 Wks. Minimum Full Time
AVAILABILITY: All Rotations**

**Nathan N. Aronson, Ph.D.
All Department Faculty**

**MAX. # STUDENTS: 1/Faculty Member
Available as a 2 wk. elective?
YES__NO__x Ask Crs. Dir. __**

OBJECTIVE: - To have senior students learn the scientific method involved in a basic research project in one of the laboratories within the Department of Biochemistry and Molecular Biology.

DESCRIPTION/RESPONSIBILITIES: - To carry out research under the supervision of a sponsoring faculty member. The student will help design experiments, learn and apply established techniques, record and evaluate data and make a final report both written and oral that describes the overall experimental results. The faculty member will assist the student in the project. This rotation is highly recommended for the student considering a career in academic medicine. Research areas include the biochemistry and molecular biology of cancer, malaria, lung diseases, aging, RNA viruses and drug design/synthesis.

RESOURCES: - Each well-equipped laboratory available for a student project has financial support for the research from extramural grants (e.g., NIH, American Cancer, American Heart). Each week student literature or research seminars are given and include all departmental graduate students. All research laboratories have up-to-date computers that are routinely used for: literature searches; genomic, protein and other molecular data analyses; and many other basic research methods.

EVALUATION: - The student evaluation is based on faculty observation of the conduct of research, presentations of the project theses, participation in laboratory discussions, evaluation of student data notebook and success in laboratory work.

LOCATION: - 2152 Medical Science Building.

TIME: - 8:00 a.m., first day of rotation.

ATTENDANCE: - Time of attendance is flexible, but the student is expected to work mostly when supervision is available.

DEPARTMENT OF EMERGENCY MEDICINE

**SPECIAL ELECTIVE
EMERGENCY MEDICINE
EMM 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Emergency Medicine**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined

DEPARTMENT OF EMERGENCY MEDICINE

**EMERGENCY MEDICINE
EMM 478**

**DURATION: 4 weeks Full Time
AVAILABILITY: All Rotations**

**J. Randle Adair, D.O.
Marion C. Berg, M.D.
W. Scott McNair, M.D.
Frank S. Pettyjohn, M.D.
Michael L. Sternberg, M.D.
Lynne A. McDonnell, M.D.
P. Conrad McGuire, M.D.**

**MAX # STUDENTS: 7
Available as 2 wk. elective?
YES _NO_x Ask Crs. Dir._**

OBJECTIVE: - Familiarize senior students with the types, variability and treatment of acute medical and surgical clinical problems seen in an Emergency Department and LEVEL I Trauma Center.

DESCRIPTION & RESPONSIBILITIES: - Students will work side by side with residents and faculty assigned to the Emergency Department. The students will interview and examine patients and recommend appropriate therapy under the supervision of the resident or attending physician. Coverage is provided on a continuing basis by Residents and the Attending faculty of the Department of Emergency Medicine. The supervision of the students will be by the Attending physicians of the Department of Emergency Medicine. In addition, attending physicians from other services will serve as consultants to the physicians in the Emergency Department. The student will rotate shifts. Seminars will include major aspects of emergency medical care. The course will include clinical case reviews.

EVALUATION: - The following aspects of performance will be included for evaluation: Clinical performance will be evaluated by the Emergency Medicine faculty assigned to the Emergency Department during the rotation. Weekly seminar reviews and final performance reviews by faculty will determine overall evaluation rating.

LOCATION: - U.S.A. Medical Center Emergency Department

TIME: - 8:00 a.m., First day of rotation

NOTE: The elective will require 4 weeks full time. Special circumstances requiring split of the rotation will be considered on a case by case basis with written approval required by the course director.

DEPARTMENT OF FAMILY PRACTICE AND COMMUNITY MEDICINE

**SPECIAL ELECTIVE
FAMILY PRACTICE &
COMMUNITY MEDICINE
FMP 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Family Practice &
Community Medicine**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined.

DEPARTMENT OF FAMILY PRACTICE AND COMMUNITY MEDICINE

**MATERNAL-CHILD HEALTH
FMP 472**

**DURATION: 4 Weeks Full Time
MAX # STUDENTS: 1**

**Allen Perkins, M.D.
Shannon Morgan, M.D.**

**AVAILABILITY:
Not Available Blocks 1 or 12
Available as a 2 wk. elective?
YES__NO__Ask Crs. Dir. x**

OBJECTIVES -

1. To provide the student with an overall view of medical services provided to women and children in the pregnancy and early childhood period.
2. To emphasize preventive care, use of community resources, patient education and risk assessment as these apply to the process of childbearing.
3. To provide the student with a continuity experience participating in the care of a family during pregnancy and birth.
4. To provide the student with a continuity experience participating in the care of a family during pregnancy and birth.

DESCRIPTION - The student will participate in obstetrical care provision in the Family Practice site and learn about circumstances relevant to this care. The elective will consist of co-care of a patient and family during pregnancy, delivery and the post-partum period with a Family Practice faculty member. The elective will also address care of the newborn in the early post-partum period.

RESPONSIBILITY - The student will participate at the level of his/her ability at the University of South Alabama Family Practice Center, not to exceed the level of an acting intern. The student will be directly supervised in any patient care setting. The student will be expected to read pertinent literature and to participate in longitudinal care of a patient during the prenatal, intrapartum and post-partum period.

EVALUATION - Honors/Pass/Fail based on evaluations of clinical performance by departmental faculty.

LOCATION - U.S.A. Family Practice Center

TIME - Contact assigned faculty member to make arrangements.

DEPARTMENT OF FAMILY PRACTICE AND COMMUNITY MEDICINE

**COMMUNITY MEDICINE
FMP 473**

**DURATION: 4 weeks full time
MAX # STUDENTS: 2**

**Allen Perkins, M.D.
Ehab Molokhia, M.D.**

**AVAILABILITY: Rotations 3-12
Available as a 2 wk. elective?
YES __ NO __ Ask Crs. Dir. x**

OBJECTIVE: To provide students with an introduction to multiple aspects of community medicine, including school-based health, community health education, home health care, occupational medicine, population medicine, health promotion, the interface with community agencies and other related topics.

RESPONSIBILITIES: The students would have regular activities in a school-based educational project, our home health care and home visit program, a community battered women's shelter and other such community-based projects. Time would also be devoted to having the students attain a basic familiarity with community agencies that can assist physicians in providing care and services for patients. Remaining time will be spent completing community medicine. **Optionally**, the students can spend time on a number of other related activities, depending on their interests and needs, including: (1) our nursing home practice, or (2) other such projects as determined individually.

EVALUATION: The students will be evaluated by the clinical faculty members supervising them during the rotation and by the course directors on the basis of their clinical performance and their participation in rotation activities.

LOCATION: USA Family Practice Center, various schools in the Mobile Public School System and other community sites.

TIME: Please contact May Sullivan's office to make arrangements for meeting.

DEPARTMENT OF FAMILY PRACTICE & COMMUNITY MEDICINE

**PRIMARY CARE SPORTS
MEDICINE
FMP 460**

**DURATION: 4 Wks. Full Time
AVAILABILITY: All Rotations**

**Ron R. Lee, M.D., M.S.
Department of Family Practice &
Community Medicine**

**Available as 2 Wk. Elective
YES NO Ask Crs. Dir. _____**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

- To become familiar with the clinical and radiographic evaluation of sports injuries.
- Understand the non-surgical management of the more common sports injuries.
- Familiarization with on-field management of athletic injuries.
- Understand the special healthcare needs of the athletic population.
- Understand the duties and responsibilities of a team physician.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined.

DEPARTMENT OF MEDICAL GENETICS

**CLINICAL RESEARCH
GEN 450**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

W. Wertelecki, M.D.

**MAX # STUDENTS: 1
Available as a 2 wk. elective?
YES __ NO x Ask Crs. Dir. __**

PREREQUISITE - Prior interview with Dr. Wertelecki.

OBJECTIVE - The objective of this elective is to provide a study in depth of a disease entity with a genetic component.

DESCRIPTION - Research subjects of mutual interest to student-tutor will be selected. Data collection from clinical observation, hospital records, literature review, dermatoglyphics, pedigrees, etc., will be utilized (i.e., childhood neoplasia vs. parental size). Emphasis will be placed on offering the student an opportunity to master, in depth, a selected major human disorder. If warranted, the publication of the results will be encouraged.

RESPONSIBILITIES - The student responsibility will primarily concern a detailed clinical study and data review of a human disorder.

EVALUATION - The student evaluation is based on faculty observation of the student's conducting clinical investigation, synthesis of the collected data, and presentation of work at a clinical conference within the department.

LOCATION - Cancer Center/Clinical Building - 2nd Floor, Room 214. Other regional centers as required.

TIME - 8:00 a.m., first day of rotation

DEPARTMENT OF MEDICAL GENETICS

**THE GENETICS OF
DEVELOPMENTAL DISABILITIES
AND MENTAL RETARDATION
GEN 455**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**W. Wertelecki, M.D.
Jose Martinez, M.D.**

**MAX. # STUDENTS
Available as a 2 wk. elective?
YES__NO__ Ask Crs. Dir.__**

2

PREREQUISITE: - Interview with Drs. Wertelecki and Martinez

OBJECTIVE: - Provide the experience and background to demonstrate the "genetic point of view" (etiology, pathogenesis, morphogenesis, cytogenetics-DNA, genetic counseling, etc).

DESCRIPTION: - The student will be assigned up to six families to investigate, review, synthesize, outline anticipatory care and outline genetic counseling contents and strategies.

RESPONSIBILITIES: - The student will present a weekly summary and generate a final report about a topic chosen at the onset of the rotation.

EVALUATION: - Will be based on faculty observation of the ability to gather and synthesize data, review recent advances, translate clinical facts into management and counseling strategies.

LOCATION: - Department of Medical Genetics, Cancer Center/Clinical Building.

TIME: - 8:00 a.m. - 5:00 p.m.

DEPARTMENT OF MEDICAL GENETICS

**EXPLORE YOUR OWN
CHROMOSOMES
GEN 456**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**C. Tuck-Muller, Ph.D.
T.J. Chen, M.D.
W. Wertelecki, M.D.**

**MAX. # STUDENTS: 1
Available as a 2 wk. elective?
YES__NO__x Ask Crs. Dir. __**

PREREQUISITE: - Interview with Drs. Tuck-Muller and Chen or Dr. Wertelecki.

OBJECTIVE: - To provide a broad experience in cytogenic laboratory methods and an understanding of the clinical applications of chromosome analysis.

DESCRIPTION: - The student will gain "hands-on" experience with the techniques used in chromosome analysis through the exploration of the student's own karyotype. The student will acquire basic skills in cell culture and harvesting, various banding procedures, fluorescence in situ hybridization (FISH), microscopic analysis and karyotype interpretation. The clinical relevance of these techniques and interpretation of results in a clinical context will be stressed.

RESPONSIBILITIES: - The student will be responsible for gaining theoretical and technical skills in laboratory cytogenetics. The student will also be expected to present a review of the literature on a relevant topic to our faculty.

EVALUATION: - The student's evaluation will be based on faculty observation of the student's skill in cytogenic techniques and the student's ability to understand and discuss the utilization of those techniques in a clinical context, and on the literature review.

LOCATION: - Cancer Center/Clinical Building - 2nd Floor, Room 214.

TIME: - 8:30 a.m., first day of rotation.

DEPARTMENT OF MEDICAL GENETICS

**DESIGN INTERACTIVE MEDICAL
GENETICS
HTML - INTERNET - COMPUTER
ASSISTED
INSTRUCTION (CAI) MODULES
GEN 457**

**DURATION: 4 Wks. Full Time
AVAILABILITY: All Rotations**

W. Wertelecki, M.D.

**MAX. # STUDENTS: 1
Available as a 2 wk. elective?
YES NO Ask. Crs. Dir.**

PREREQUISITE: - Interview with Dr. Wertelecki

OBJECTIVE: - Expose the student to HTML PC use mediated through "HotMetalPro" software to generate interactive computer learning modules demonstrating a "genetic point of view" using clinical syndromes.

DESCRIPTION: - The student will interact with the faculty and a full time staff person specialized in the use of HTML. The student will select a clinical syndrome or topic appropriate for the design of an interactive HTML PC teaching-learning module. If warranted, this module may be used in the COM curriculum or be placed on the World Wide Web. The student will have access to clinical encounters, patient videotapes, a photographic archive and a multimedia station. The staff HTML specialist will finalize programming aspects to the extent desired by the student.

RESPONSIBILITIES: - The student will be responsible for identifying a topic of interest to students or housestaff, design an interactive chart flow, develop visual and text sequences and learn the rudiments of HTML.

EVALUATION: - Will be based on observation of the student's ability to identify, synthesize, outline, present and program a clinical syndrome into a PC interactive HTML module.

LOCATION: - Department of Medical Genetics, Cancer Center/Clinical Building.

TIME: - 8:00 a.m. - 5:00 p.m.

DEPARTMENT OF MEDICAL GENETICS

**GENETICS ATTUNED TO
CLINICAL RESIDENCIES
(Obstetrics, Pediatrics, Family
Practice and Internal Medicine)
GEN 458**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**W. Wertelecki, M.D.
Jose E. Martinez, M.D,**

**MAX. # STUDENTS: 2
Available as a 2 wk. elective?
YES__NO__ Ask Crs. Dir.__**

PREREQUISITE: - Interview with Drs. Wertelecki and Martinez

OBJECTIVE: - To provide students with an understanding of the role of genetics in primary health care delivery settings (Obstetrics, Pediatrics, Family Practice or Internal Medicine).

DESCRIPTION: - A curriculum will be designed jointly by the faculty-student to achieve a problem oriented and context specific agenda relevant to an anticipated clinical residency. The agenda will emphasize appropriate disorders where preventive medicine, genetics, teratology, dysmorphology, diagnostic DNA, cytogenetic and biochemical medical genetic laboratory applications are of importance. During mornings, the student will work in clinical settings relevant to the above. In the afternoons, the student will review background and other information needed to define a "genetic point of view" of a clinical disorder. The role of diagnostic, differential diagnosis, anticipatory care, reproductive risks and genetic counseling will be emphasized. The student will use departmental computer databases and printed materials, as well as those used for genetic counseling. The student will present a weekly clinical review and generate a written report summarizing a clinical disorder, to be of suitable quality as handouts for a COM II class or to be published as a short clinical contribution.

RESPONSIBILITIES: - The student will join other colleagues, interns and residents in primary health care delivery clinics and function side by side with them. The student (acting intern) will be responsible for the history, physical examination, preparation of a problem list, design of a diagnostic-workup and implementation of a therapeutic regimen. The student will be expected to consult a variety of standard informational resources at the Dept. of Medical Genetics, as well as review current scientific literature. During afternoons the student will interact with the faculty and staff of the Department of Medical Genetics.

EVALUATION: - The student will be evaluated by the faculty of the Department of Medical Genetics based upon the ability to understand, discuss and communicate a "genetic point of view" of common disorders.

LOCATION: - Co-activities with staff monitoring the occurrence of birth defects at the USAMC, various Medical Genetics clinics, Brewer Center, outreach genetics clinics, high risk regional referral clinic, and if necessary, pediatrics, family practice, internal medicine, Ob/Gyn and other clinics.

TIME: - 8:00 a.m. - 5:00 p.m.; clinic sites and 2nd floor CC/CB

DEPARTMENT OF MEDICAL GENETICS

**EARLY DETECTION AND PREVENTION
OF BIRTH DEFECTS
GEN 459**

**DURATION: 4 Weeks Full time
AVAILABILITY: All Rotations**

**W. Wertelecki, M.D.
Jose Martinez, M.D.**

**MAX. # STUDENTS: 1
Available as a 2 wk. elective?
YES __ NO __ x Ask Crs. Dir. __**

PREREQUISITE: - Interview with Drs. Wertelecki and Martinez

OBJECTIVE: - The student will gain an appreciation of the methods used to detect birth defects in the early postnatal period. The methods utilized are similar to those instituted by the Centers for Disease Control and adopted by many states for their Birth Defects Monitoring Systems. Relatedly, the student will gain an appreciation of the data collection, entry and analysis process.

DESCRIPTION: - A Birth Defects Monitoring System is functioning at the USAMC. Pregnancy outcomes (miscarriage, stillbirth and neonates) are examined systematically to insure early detection, promote anticipatory management and formulate preventive strategies. The student will work in parallel with genetic nurses interacting with the Intensive Care Nursery and other sites. At the Department of Medical Genetics, students will gain first hand experience with PC computer technology utilized to define and register the anomalies encountered. The student will be expected to select an etiologically related group of birth defects and generate a synthesis report based on actual data augmented by a review of recent advances in basic and clinical sciences.

RESPONSIBILITIES: - The student will be responsible to learn the multifaceted sources of ascertainment of birth defects, methods to screen and confirm medical information, formulate anticipatory and preventive strategies. The student will be required to present a weekly activity report and to generate a fact sheet concerning birth defects at USAMC which may be used during a COM II Course in Medical Genetics or published as a short report.

EVALUATION: - The student will be evaluated by the preceptors based upon observation and demonstrated skills to synthesize the experiences.

LOCATION: - Attend various medical information sources, mostly during mornings. Review and synthesis activities, mostly at the Department of Medical Genetics.

TIME: - 8:00 a.m. - 5:00 p.m.

DEPARTMENT OF MEDICAL GENETICS

**CLINICAL MOLECULAR GENETICS
GEN 460**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**T.J. Chen, M.D.
Wladimir Wertelecki, M.D.**

**MAX. # STUDENTS: 2
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: - Interview with Drs. Chen and Wertelecki

OBJECTIVE: - To be exposed to basic molecular technology and to understand the role of clinical molecular genetics in clinical medicine and biomedical research.

DESCRIPTION: - This rotation is oriented toward clinical molecular diagnosis and research with opportunities to participate in areas ranging from the study of inherited diseases using new techniques, such as fluorescent in situ hybridization (FISH) and recombinant DNA, to research in gene mapping and identification. Students are expected to learn the laboratory procedures necessary for identification of chromosome specific microdeletion syndromes, trisomy and translocation by FISH analysis, as well as Southern blot and polymerase chain reaction (PCR) techniques for identification of trinucleotide expansions, gene arrangements, and gene mapping, to derive phenotype-genotype correlation of patients and their families.

RESPONSIBILITIES: - The student will be responsible for learning theoretical and technical aspects of basic molecular genetics and clinical applications of these techniques. He or she will be required to present a topic of a relevant subject to our faculty.

EVALUATION: - The student evaluation is based upon faculty observation of the student's ability to understand and discuss the clinical context for clinical molecular investigations. Evaluation will also be based on student's demonstrated skill in laboratory procedures.

LOCATION: - Cancer Center/Clinical Building - 2nd Floor, Room 214.

TIME: - 8:30 a.m., First day of rotation. _____

DEPARTMENT OF INTERNAL MEDICINE

**SPECIAL ELECTIVE IN MEDICINE
MED 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Medicine**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined

DEPARTMENT OF INTERNAL MEDICINE

**PRIMARY CARE/PUBLIC HEALTH
PRECEPTORSHIP**

MED 474

Bernard H. Eichold, M.D., Dr.P.H.

DURATION: 4 Weeks

AVAILABILITY: All Rotations

MAX. # Students 2

Available as a 2 wk. elective?

YES NO Ask Crs. Dir.

PREREQUISITE - Prior discussion, at least one month in advance, with course director is necessary.

OBJECTIVE - To provide the student with the opportunity (1) to gain experience in the diagnosis and management of common clinical conditions and (2) to be exposed to the procedures and practices of public health.

DESCRIPTION - The student will work under the supervision of the Mobile County Health Officer or his designee in one or more of the following primary care clinics of the Mobile County Health Department: Pediatrics, Adult Care, Family Planning, Maternity and Chronic Disease. The student may also be exposed to Community Epidemiology and Environmental Health. Special attention will be given to assisting the student in meeting his or her specific learning objectives based on the individual student's interests, capabilities or needs.

RESPONSIBILITIES -

1. Interview and examine patients under the supervision of the preceptor
2. Interpret clinical data/scientific data
3. Assist with clinical/scientific studies
- _____4. Administratively assist in public health field operations

EVALUATION - Honors/Pass/Fail. Final evaluation will be determined by the course director. The preceptor must submit a written report of the student's performance.

LOCATION - The Mobile County Health Department, 251 North Bayou Street, Mobile, AL or any of its satellite clinics.

TIME - Report on site. 7:30 a.m., First day of rotation.

DEPARTMENT OF MICROBIOLOGY/IMMUNOLOGY

**MOLECULAR BASIS OF
PATHOGENESIS
MIC 447**

**DURATION: 4 weeks Full Time
AVAILABILITY: By Arrangement**

Herbert H. Winkler, Ph.D.

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES__NO__x Ask Crs. Dir.__**

PREREQUISITE - Some laboratory experience, interview and approval of Dr. Winkler.

OBJECTIVES - This elective will offer the student a better understanding of the fundamental mechanisms of intracellular bacterial pathogens and the problems and techniques of data acquisition and evaluation.

DESCRIPTION - Bench research on the biology or the rickettsiales family of intracellular pathogens and on the pathogenesis of the diseases caused by these organisms. Participation in ongoing research or initiation of new projects are possible.

LOCATION - Laboratory of Molecular Biology (LMB)

TIME - 8:00 a.m., first day of rotation

DEPARTMENT OF NEUROLOGY

**CLINICAL NEUROLOGY
NRY 411**

William J. Hamilton, D.O.

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**MAX # STUDENTS: 4
Available as 2 wk. elective?
YES NO Ask Crs. Dir. x
2 wk. rotation on a limited basis**

OBJECTIVE: - Primary objectives of the clerkship are to become proficient in performing the neurological examination (both comprehensive and short form) and to learn the basic principles underlying diagnosis and management of the most common neurologic disorders. ***This is an advanced elective, with increased patient responsibilities.***

DESCRIPTION: - Four-week rotation in neurology, including time spent on the USAMC service, performing ER and hospital consults and in out-patient clinics, including offices of private Neurologists.

RESPONSIBILITIES: - Evaluation and management of ER consults, hospitalized patients and clinic out-patients.

EVALUATION: - The evaluation is based upon resident and faculty observation of clinical performance and interactions in didactic presentations.

LOCATION: - USA Knollwood - 3401 Medical Park Drive - Building #3
Suite 205 (660-5118 - Linda)

TIME: - 8:00 a.m., First day of rotation

DEPARTMENT OF NEUROLOGY

**SPECIAL ELECTIVE IN NEUROLOGY
NRY 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Neurology**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined.

DEPARTMENT OF NEUROSURGERY

**NEUROLOGICAL SURGERY
NSY 4II**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

Eugene Quindlen, M.D.

**MAX # STUDENTS: 2*
Available as a 2 wk. elective?
YES __ NO Ask Crs. Dir. __**

OBJECTIVE: - Primary objective of clerkship is to recognize the common neurosurgical syndromes seen in general clinical practice. Secondary objectives are to learn rudiments of neurological intensive and critical care and in understanding basic neurological concepts.

DESCRIPTION: - Four-week experience in neurosurgery including rotations on clinical admission, consultation and patient services of the department. This includes both adult and child experience.

RESPONSIBILITIES: - Evaluate and management of new and follow-up admitted, consultative and outpatients.

EVALUATION: - The student will be evaluated in the following areas by the attending faculty.

1. Ability to make objective descriptions of physical findings.
2. Ability to make a specific diagnosis or to classify the ailment correctly to enable a more specific diagnosis to be determined.
3. Ability to determine diagnostic tools (lab, etc.) required to lead to a diagnosis.
4. Ability to plan a reasonable course of treatment.

LOCATION: - Operating Room, Knollwood Park Hospital

TIME: - 8:00 a.m., First day of rotation

***Faculty will increase the max # of students to three if all future blocks are filled with two students.**

DEPARTMENT OF NEUROSURGERY

**SPECIAL ELECTIVE IN
NEUROSURGERY
NSY 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Neurosurgery**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined.

DEPARTMENT OF OBSTETRICS & GYNECOLOGY

**SPECIAL ELECTIVE IN OB/GYN
OGY 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Ob/Gyn**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined.

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

**ULTRASOUND
OGY-464**

**DURATION: 4 Weeks Full Time
AVAILABILITY: By Appointment
Not in July, Aug., Sept. or Oct.
Only in Blks. 6-12**

Kathy Porter, M.D.

**MAX # STUDENTS 1
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE: - This elective is designed for students who have chosen obstetrics and gynecology as a career.

DESCRIPTION: - The student will be based in the perinatal unit and will become proficient in performing and interpreting obstetric and gynecologic ultrasound examinations. The student will become familiar with computer applications and techniques in obstetric ultrasound. The student will attend daily rounds and all conferences, seminars, journal clubs and core curriculum presentations. The student will be expected to review the literature of a chosen pertinent ultrasound topic in depth and present findings as a scientific paper.

EVALUATION: - Evaluation of the student will be determined from his/her performance while on the service.

LOCATION: - Perinatal Unit, Health Services Foundation.

TIME: - 8:00 a.m., First day of rotation at Ob/Gyn Clinic.

DEPARTMENT OF ORTHOPAEDIC SURGERY

**SPECIAL ELECTIVE IN
ORTHOPAEDIC SURGERY
OPD 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Orthopaedic Surgery**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined.

DEPARTMENT OF PATHOLOGY

**DIAGNOSTIC ELECTRON
MICROSCOPY
PAT 416**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

J. Allan Tucker, M.D.

**MAX # STUDENTS: 4
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE: - To provide exposure to an area of diagnostic pathology that few students will otherwise encounter. By the end of the rotation, the student should have a basic understanding of the operation of transmission and scanning electron microscopes, have seen examples of common types of pathology cases examined by electron microscopy, and have an appreciation of the application of electron microscopy to diagnostic pathology.

DESCRIPTION: - The attending pathologist will explain the operation of the electron microscopes and review cases with the student. Typical cases include anaplastic neoplasms, renal biopsies, brushings for ciliary fine structure and endomyocardial biopsies. In addition to the diagnostic cases, independent study of normal and/or abnormal tissues by the student is encouraged. The rotation also provides exposure to scanning electron microscopy with microprobe analysis.

RESPONSIBILITIES: - A schedule will be developed with the student. The student will then be responsible for maintaining that schedule and for the timely examination of diagnostic cases.

EVALUATION: - Pass/Fail based on attendance and a subjective evaluation of student attitude and performance.

LOCATION: - University of South Alabama Medical Center, Department of Pathology.

TIME: - Please call 471-7799 before the first day of the rotation.

DEPARTMENT OF PATHOLOGY

**PEDIATRIC-PERINATAL
PATHOLOGY
PAT 417**

**DURATION: 4 Weeks Full Time
AVAILABILITY: 2-11**

Elizabeth A. Mancini, M.D.

**MAX # STUDENTS 1
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE - Senior Status

OBJECTIVE - To familiarize students with the role of pathology in the diagnosis and treatment of diseases of children.

DESCRIPTION - Working closely with Pathology faculty, the student will interface with Pediatricians, Pediatric Surgeons, Obstetricians and Neonatologists. Through clinicopathologic correlations the student will learn pathogenesis of diseases and contribute to the care of patients. The student will assist with examination and/or dissection of clinical, surgical and/or autopsy specimens, review of medical records and evaluation of current literature. Interesting cases offer opportunities for detailed investigations that can be tailored to the interest and skills of the student.

RESPONSIBILITIES - The student is expected to actively participate in daily problem solving and to attend departmental and interdepartmental conferences.

EVALUATION - Weekly evaluations of progress and an overall final evaluation (Honors/Pass/Fail) are given.

LOCATION - USA Doctor's Hospital, Laboratory, First Floor.

TIME - 8:00 a.m., first day of rotation.

DEPARTMENT OF PATHOLOGY

**SURGICAL PATHOLOGY
PAT 418**

J. Allan Tucker, M.D.

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE - The field of pathology as presented in the second year course is rather different than the practice of pathology as a medical discipline. This course is designed to familiarize students with one area of pathology practice, Surgical Pathology. The students should observe and understand gross and histologic examination of surgical specimens and the use of adjunctive techniques, such as immunohistochemistry. By the end of the rotation, the student should have an appreciation for the role of surgical pathology in the field of medicine.

DESCRIPTION - The student will be actively involved with all aspects of specimen handling and processing, from gross examination to routine histologic examination to special techniques.

RESPONSIBILITIES - The student will initially observe the gross examination of specimens and attend diagnostic sign-out. Subsequently, the student will autonomously perform the gross examination of selected cases, independently examine those cases histologically, formulate diagnoses, and present the cases to the attending pathologist for a final interpretation.

EVALUATION - Honors/Pass/Fail based upon resident and faculty observation of the student's participation and performance.

LOCATION - University of South Alabama Medical Center, Department of Pathology

TIME - 8:00 a.m., first day of rotation

DEPARTMENT OF PATHOLOGY

**LABORATORY MEDICINE
FOR THE PRACTICING
PHYSICIAN
CLINICAL PATHOLOGY
PAT 419**

**DURATION: 4-8 Weeks Full Time
AVAILABILITY: All rotations**

**Elliot Carter, M.D.
Gary Carnahan, M.D.
James R. Stubbs, M.D.**

**MAX # OF STUDENTS: 4
Available as a 2 wk. elective?
YES__NO__ Ask Crs. Dir.__**

OBJECTIVE: To foster understanding of how a clinical laboratory can best be utilized by the practicing physician to obtain clinically relevant laboratory data, eliminate extraneous testing and avoid misinterpretation of laboratory data.

DESCRIPTION: The student will work closely with each Section Director of Chemistry, Hematology, Microbiology and Blood Bank/Hemostasis for a one or two week period. During each rotation, the student will learn the type of testing and work flow pattern for the section. Weekly conferences with reading lists will be held with each Section Director and/or Supervisor. Topics to be covered include appropriate use and interpretation of commonly performed laboratory tests, expected turn-around-times and the logistics of Stat testing, laboratory cost efficiency and quality of care, factors determining whether a test will be offered in-house or sent to a reference lab, important considerations in the choice of a reference lab for a medical practice, standard of analytical performance to expect from the laboratory, and how to utilize a Laboratory Information System to retrieve patient or test information.

RESPONSIBILITIES: The student will be expected to spend time in the section laboratory, participate in daily problem-solving activities, read appropriate material and to meet regularly with the Section leader. He/she will also be expected to attend departmental seminars and other didactic presentations, with special emphasis on the Clinical Pathology Conferences.

EVALUATION: Weekly evaluations of progress and an overall final evaluation (Honors/Pass/Fail) will be given.

LOCATION: USA Medical Center Pathology Department and Hospital Clinical Laboratories

TIME: 8:00 a.m., first day of rotation.

DEPARTMENT OF PATHOLOGY

**FORENSIC PATHOLOGY
PAT 424**

**DURATION: 4 weeks full time
AVAILABILITY: Rotations
2, 10-11-12**

**LeRoy Riddick, M.D. (471-7026)
Leszek Chrostowski, M.D.
Kathleen M. Enstice, M.D.**

**MAX # STUDENTS 1
Available as a 2 wk elective?
YES__NO__x Ask Crs. Dir. __**

OBJECTIVE - To provide exposure to the medicolegal investigation of death and provide autopsy experience. The course is limited to those students who are entering a residency in Pathology.

DESCRIPTION - The student will be responsible to be in attendance at the Department from 8:00 a.m. to 4:00 p.m. Monday through Friday. The student will be expected to attend all the postmortem examinations during that period. During those times when there are no examinations, the student will be expected to attend scenes and/or court and read the assigned textbook. The student will attend the gross pathology conference on Monday mornings at 8:15 a.m. and the weekly death case review at 1:00 p.m. on Monday. All the other pathology conferences will be made available.

RESPONSIBILITIES - The student will be responsible to be in the Department from 8:30 a.m. to 4:30 p.m., Monday through Friday and he will be expected to attend the post mortem examinations. In the afternoons, he will spend one week in toxicology, one week in firearms, one week in serology and one week in trace evidence. He will be on standby call on several evenings and at least one weekend for scene attendance. Whenever cases to be tried in court become available, he will be expected to attend. The student will attend the gross pathology conference on Monday mornings at 8:15.

EVALUATION - Pass/Fail. Evaluated on attendance, initiative and knowledge by attending pathologists.

LOCATION - Alabama Department of Forensic Pathology/University of South Alabama Medical Center Department of Pathology.

TIME - 8:00 a.m., first day of rotation

DEPARTMENT OF PATHOLOGY

**MEDICINE AND LITERATURE
PAT 428**

William A. Gardner, Jr., M.D.

**DURATION: Variable
AVAILABILITY: Rotations 8 - 11**

**MAX. # STUDENTS: 1
Available as a 2 wk. Elective?
YES ___ NO Ask. Crs. Dir. ___**

PREREQUISITES: Interview with and consent of instructor (at least one month prior to beginning rotation) and completion of on-line questionnaire. Dr. Gardner may be reached at 202-782-2102; FAX 202-782-7883.

OBJECTIVES: To add additional dimension to the conventional medical curriculum.

DESCRIPTION: The elective will consist of study of diverse sources of literature related to the practice of medicine. Such sources will cover the spectrum from classical, medieval, renaissance, up to and including contemporary literature. The specific sources will be drawn from publications such as the annotated bibliography of Trautmann and Pollard, published by the Society for Health and Human Values** as well as the twelve volumes of Literature and Medicine published by Johns Hopkins University Press. A particular effort will be made to identify genre of literature with which the student is unfamiliar and thereby serve as an introduction. An effort will also be made to relate the reading material to the career goals of the student.

RESPONSIBILITY: The student will, with Dr. Gardner, develop a mutually agreed upon reading list of books, poems, plays, etc. and thereafter schedule a series of discussion sessions to review the student's progress.

EVALUATION: Honors/Pass/Fail. Will be based on; 1) the volume of literature encompassed and 2) the student's ability to integrate this body of literature into their own perspectives and understanding of the practice of medicine. The latter will be determined by interaction during the review sessions.

LOCATION: This will be an on-line interactive elective and as such may take place from any site with appropriate internet connections. Discussion sessions will be scheduled on-line with Dr. Gardner at a time to be agreed on by him and the student. Additional communication may be required via telephone, fax, and/or e-mail.

** Literature and Medicine: Topics, Titles and Notes. Published by the Department of Humanities, Milton Hershey, etc. 209 pages.

DEPARTMENT OF PATHOLOGY

**SPECIAL ELECTIVE
PATHOLOGY
PAT 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Pathology**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined.

DEPARTMENT OF PEDIATRICS

**SPECIAL ELECTIVE IN PEDIATRICS
PED 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Pediatrics**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined.

DEPARTMENT OF PHARMACOLOGY

**CLINICAL PHARMACOLOGY
AND THERAPEUTICS
PHM 422**

**DURATION: 4 Weeks
AVAILABILITY: Block 9**

**Mark N. Gillespie, Ph.D.
Samuel J. Strada, Ph.D.**

**MAX # STUDENTS: 35
Available as a 2 wk. elective?
YES__NO__x Ask Crs. Dir. __**

OBJECTIVES: This course is directed toward integrating fundamental principles of clinical pharmacology with the clinical skills and knowledge gained during the third and fourth years of medical school. The overall objective is to provide a solid foundation for the rational and practical approach to the appropriate clinical use of medications. Specific topics will include, but not be limited to: Taking medication histories; Patient compliance; Interpretation of Drug Literature and Clinical Drug Trials; Over-the-counter Products; Clinical Pharmacokinetics and Therapeutic Drug Monitoring; Drug Interactions; Drug-Induced Diseases; Effects of Underlying Diseases on Drug Therapy; and Geriatric Drug Therapy. In addition, the rational therapeutic approach to common specific diseases will be discussed (e.g., hypertension, CHF, hyperlipidemias, COPD, asthma, diabetes, chronic pain and headaches, infectious diseases, etc.) Discussions will be oriented to a primary care focus.

RESPONSIBILITIES: - Students will be expected to attend each of the scheduled lectures and presentations. In general, lectures will be scheduled for 6 hours per day, five days per week. The remainder of the scheduled time each day will be for self-study, literature analyses, and preparation for presentations. Each student is expected to make two presentations to the class.

EVALUATION: - Evaluations will be based on the student's participation during the lectures/discussions. In addition, student's presentations will be evaluated based on content, style and the effort of the student. Perfect attendance at the scheduled lectures will be expected and unexcused absences will count against the final evaluation.

LOCATION: - USAMC Mastin Building Room 207, 209 or 218.

Contact: Mark N. Gillespie, Ph.D.
Department of Pharmacology
Phone: (251)-460-6497

DEPARTMENT OF PHARMACOLOGY

**RESEARCH IN PHARMACOLOGY
PHM 441**

Mark N. Gillespie, Ph.D.

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**MAX # STUDENTS: 4
Available as a 2 wk. elective?
YES __ NO x Ask Crs. Dir. __**

OBJECTIVE - The objective of this elective is to provide the student the opportunity to experience basic medical research including experimental design, utilization of scientific literature and methods for evaluation and interpretation of experimental data.

RESPONSIBILITIES - A study of various pharmacological techniques employed in research. This will be accomplished by student rotation through various research laboratories in the Department of Pharmacology. Program designed to offer the student the opportunity to develop an appreciation of the correct techniques of experimental design and evaluation of experimental data. Students will be given the option of spending the entire period in full-time research within the laboratory of a member of the faculty working on a project of interest to them.

EVALUATION - The student evaluation is based on faculty observation of the conduct of research, presentation of the project thesis, participation in lab discussions, evaluation of student data notebook and success in laboratory work.

LOCATION - 3370 Medical Science Building

TIME - 8:00 a.m., first day of rotation.

DEPARTMENT OF PHYSIOLOGY

**RESEARCH IN PHYSIOLOGY
PHY 451**

**Thomas M. Lincoln, Ph.D.
All Physiology Faculty**

**DURATION: 4 Weeks Minimum Full Time
AVAILABILITY: All Rotations**

**MAX # STUDENTS: 1/Faculty Member
Available as a 2 wk. elective?
YES NO X Ask. Crs. Dir.**

PREREQUISITE - Consent of instructor

OBJECTIVE - To provide an opportunity for senior students to become involved in ongoing research in one of the various laboratories within the Physiology Department. This rotation is highly recommended for the student contemplating a career in research or academic medicine. Subjects include cardiovascular and pulmonary. Instruction may include the use of computer analysis and modeling as applied to ongoing research. Interested students should contact Dr. Lincoln or individual faculty for descriptions of specific projects and their availability.

EVALUATION - The student evaluation is based on faculty observation of the conduct of research, presentation of the project thesis, participation in lab discussions, evaluation of student data notebook and success in laboratory work.

LOCATION - Medical Science Building, Room 3082

TIME - 8:00 a.m., first day of rotation.

DEPARTMENT OF RADIOLOGY

**BASIC RADIOLOGY
RAD 420**

Cyril Morgan, M.D.

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**MAX # STUDENTS: 6
Available as a 2 wk. elective?
YES __ NO Ask Crs. Dir. __**

OBJECTIVE: - This elective is intended to introduce the student to the techniques and terminology of diagnostic radiology and to the basics of radiographic interpretation.

DESCRIPTION: - Students will be given the opportunity to rotate through all radiology work areas where they can observe procedures and film reading and become acquainted with the operation of the department. Students will attend departmental conferences which deal with various facets of radiology. A self-instructional teaching file on the major organ systems is available for use at any time. Students will choose an interesting case to research during the course of the elective and will present it at the end of the rotation to residents and staff during conference time. Students are to participate on a full-time basis and will be responsible for limited night and weekend on-duty call with the radiology resident.

EVALUATION: - Evaluations will be based upon attendance and oral presentations.

LOCATION: - U.S.A. Medical Center

TIME: - 8:00 a.m., First day of rotation at 301 Mastin.

DEPARTMENT OF RADIOLOGY

**RADIOLOGY CLERKSHIP
RAD 423**

Cyril Morgan, M.D.

**DURATION: 4 Weeks Full Time
AVAILABILITY: All rotations**

**MAX # STUDENTS: 3
Available as a 2 wk. elective?
YES __ NO Ask Crs. Dir. __**

Basic Rad. Prerequisite (RAD 420)

OBJECTIVE: - In-depth participation in Radiology Practice designed for students specifically interested in pursuing postgraduate training in an imaging specialty.

DESCRIPTION: - Students will be given the opportunity to rotate through at least four sub-specialty and general radiology services where they will become acquainted with technical skills and interpretive practices. Toward the end of each week, the students will participate as residents in the performance and interpretation of procedures under direct supervision of responsible faculty members. They will attend departmental conferences for residents and students. Some flexibility as to the sub-specialty rotation will be coordinated with the student's special interests. Opportunities will be available in the general reading areas as well as sub-specialty areas of Angiography, Computed Tomography, Ultrasound, Nuclear Medicine and Magnetic Resonance Imaging. Students are to participate on a full-time basis and will be responsible for night and weekend on-duty call with the radiology resident.

EVALUATION: - Students will be graded on their performance of procedures and interpretations on clinical services and in the conference setting.

LOCATION: - U.S.A. Medical Center and Health Sciences Facility Radiology Reading Room.

TIME: - 8:00 a.m. First Monday of rotation at 301 Mastin.

DEPARTMENT OF RADIOLOGY

**RADIATION ONCOLOGY
RAD 426**

Gregory Cotter, M.D.

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

OBJECTIVE: - In general, the objective of this elective will be to develop an appreciation of the multifaceted approach to the oncology patient and specifically to the uses and limitations of the radiotherapy in the treatment of neoplastic disease.

DESCRIPTION: - This elective will expose the student to the care of oncology patients. The elective offers experience in complete patient work-ups, rounds and conferences. The student should develop a knowledge of:

1. Modes of presentation and natural history of human neoplasms,
2. Multidisciplinary anti-tumor therapy (with emphasis on the primary principles of radiation therapy),
3. Emotional and nutritional aspects of neoplastic disease,
4. And newer advances in basic and clinical cancer research.

The student will be exposed to patients from a variety of disciplines and should grasp the fundamentals of (1) methods of early detection, (2) recognition of curable cancers, (3) recognition of treatable cancers and palliative care, (4) oncologic emergencies and awareness of the major complications of each, and (5) specific techniques in physical diagnosis in each of these disciplines.

EVALUATION: - Student will be evaluated on clinical performance and oral presentations.

LOCATION: - 135 Cancer Center/Clinical Building.

DEPARTMENT OF RADIOLOGY

**PEDIATRIC RADIOLOGY
RAD 427**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

Richard L. Wesenberg, M.D.

**MAX # STUDENTS: 2
Available as a 2 wk. elective?
YES __ NO __ Ask Crs. Dir. x**

OBJECTIVE - To acquaint the student with the indications and limitations of imaging procedures in the pediatric patient, and to learn the basic principles of pediatric radiology.

DESCRIPTION - The rotation includes active participation in all pediatric radiology activities - film interpretation, special procedures and imaging modalities, active participation in the nursery and pediatric conferences, consultations with pediatric surgery, and attendance at the Pediatric Radiology Conference and Grand Rounds. Reviewing the pediatric teaching file and CD-ROM images in the Radiology Department will be encouraged.

EVALUATION

1. Attendance and participation
2. Oral examination on selected cases

LOCATION - University of South Alabama Childrens and Womens Hospital.

TIME - 8:00 a.m., first day of rotation.

DEPARTMENT OF RADIOLOGY

**SPECIAL ELECTIVE IN RADIOLOGY
RAD 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Radiology**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined.

DEPARTMENT OF SURGERY

**SPECIAL ELECTIVE IN SURGERY
SUR 444**

**DURATION: 4 Weeks Full Time
AVAILABILITY: All Rotations**

**Faculty/Clinical Faculty
Department of Surgery**

**Available as a 2 wk. elective?
YES NO Ask Crs. Dir.**

PREREQUISITE: Approval of Course Director and Vice Dean for Student Affairs and Medical Education.

OBJECTIVES, DESCRIPTION, RESPONSIBILITIES:

To be prepared by the student in conjunction with the Course Director and approved by the Vice Dean before course can be added to schedule. This course is designed to offer students and faculty/clinical faculty an opportunity to develop electives which are not offered in the Elective Manual. Such an elective may be made permanent and printed in the next edition of the Elective Manual at the request of the Course Director and with the approval of the Curriculum Committee. At the discretion of the Vice Dean, this elective may count as the required "in-house" elective.

EVALUATION: Honors/Pass/Fail based on evaluation of clinical performance and/or other responsibilities.

LOCATION: To be determined.

TIME: To be determined.

DEPARTMENT OF SURGERY

**SUR - 450
Ophthalmology (Rich)**

**DURATION: 4 wks. Full Time
AVAILABILITY: Blocks ALL**

Leonard S. Rich, M.D.

MAX # STUDENTS: 1

OBJECTIVE - To equip the student with the necessary theoretical knowledge and clinical skills to allow the practice of competent primary care Ophthalmology.

DESCRIPTION - The student will be taught to perform a complete ophthalmic assessment, including obtaining pertinent details of history, examining the patient utilizing the appropriate equipment, and formulating a management plan. One-to-one instruction by staff will guide the student learning these skills. Using the American Academy of Ophthalmology's Study Guide, the student will review clinically pertinent ophthalmic anatomy, physiology, pathophysiology, diagnosis and therapy. Observation of contact lens fitting and representative surgical procedures will be encouraged.

RESPONSIBILITIES - 1) Participate in inpatient and outpatient care as specified by attending, 2) Prepare a short, 15 minute presentation for the final week of the elective..

REQUIRED READING - 1) Basic Ophthalmology for Medical Students, published by the American Academy of Ophthalmology. It may be ordered by calling (415) 561-8540, 2) Syllabus distributed during ICM Course.

EVALUATION - Faculty evaluation, based on knowledge level, patient interaction and effort.

LOCATION - Report to Dr. Rich's office at 601 Providence Park Drive on the first day of the rotation. **Contact Dr. Rich at 650-2020 or Ann Lakeman at 650-1000 ext. 104 to determine time to report for duty.**

IMPORTANT - PLEASE BE SURE TO WEAR YOUR NAME TAG.

DEPARTMENT OF SURGERY

SUR - 451
Ophthalmology (Semple)

DURATION: 4 wks. Full Time
AVAILABILITY: All Blocks

H. Christopher Semple, M.D.

MAX # STUDENTS: 1

OBJECTIVE - To equip the student with the necessary theoretical knowledge and clinical skills to allow the practice of competent primary care Ophthalmology.

DESCRIPTION - The student will be taught to perform a complete ophthalmic assessment, including obtaining pertinent details of history, examining the patient utilizing the appropriate equipment, and formulating a management plan.

DESCRIPTION - The student will be taught to perform a complete ophthalmic assessment, including obtaining pertinent details of history, examining the patient utilizing the appropriate equipment, and formulating a management plan.

One-to-one instruction by the preceptor, Dr. Semple and associates will guide the student learning these skills. Using the American Academy of Ophthalmology's Study Guide, the student will review clinically pertinent ophthalmic anatomy, physiology, pathophysiology, diagnosis and therapy. Observation of contact lens fitting and representative surgical procedures are encouraged. The student will accompany the preceptor on hospital rounds and to the O.R.

RESPONSIBILITIES - 1) Attend clinic, office hours and OR as specified by attending.

REQUIRED READING - 1) Basic Ophthalmology for Medical Students, published by the American Academy of Ophthalmology. It may be ordered by calling (415) 561-8540.

EVALUATION - Faculty evaluation, based on knowledge level, patient interaction and effort.

LOCATION - Report to Dr. Semple at 2880 Dauphin Street at 8:30 a.m. on the first day of the rotation. **BE SURE TO WEAR YOUR NAME TAG.**

Courses Available for Longitudinal Electives

(Pages 106 - 114)

DEPARTMENT OF CELL BIOLOGY AND NEUROSCIENCE

**ADVANCED GROSS ANATOMY I
LONGITUDINAL ELECTIVE
CBN 401**

**DURATION: Part time for 4 Weeks
AVAILABILITY: Rotation 10**

**Glenn L. Wilson, Ph.D.
Phillip A. Fields, Ph.D.
Susan P. LeDoux, Ph.D.**

**MAX # STUDENTS: 30 (4 minimum)
TIME: Variable
Available as a 2 wk. elective?
YES__NO__ Ask Crs. Dir.__**

OBJECTIVE: - To expose the students to further detail of human anatomy as demonstrated in the cadaver and as utilized in the clinical setting, particularly in the rationalization of present surgical approaches as well as potential development of different surgical techniques.

DESCRIPTION: - Each student is responsible for completing the dissection and study of the anatomy of the **upper and lower extremities**, and selection and review of recent literature related to the region under study. Time will be divided between laboratory dissection, library reference study and conference sessions with faculty, both clinical and basic science. Conferences directed by faculty will deal with the basic anatomy, both normal and anomalous, and with the practical utilization of that knowledge. Conferences directed by the student will deal with techniques from current literature.

EVALUATION: - Evaluation will be subjective by participating faculty, based on student performance and response in laboratory periods as well as selected topic presentations. At least one formal objective examination is proposed, be it oral or written.

LOCATION: - 1201 Medical Sciences Building.

TIME: - 8:00 a.m., First day of rotation.

DEPARTMENT OF CELL BIOLOGY AND NEUROSCIENCE

**ADVANCED GROSS ANATOMY II
LONGITUDINAL ELECTIVE
CBN 402**

**Glenn L. Wilson, Ph.D.
Phillip A. Fields, Ph.D.
Susan P. LeDoux, Ph.D.**

**DURATION: Part time for 4 Weeks
AVAILABILITY: Rotation 8**

**MAX # STUDENTS: 30 (4 minimum)
TIME: Variable
Available as a 2 wk. elective?
YES __ NO x Ask Crs. Dir. __**

OBJECTIVE: - To expose the students to further detail of human anatomy as demonstrated in the cadaver and as utilized in the clinical setting, particularly in the rationalization of present surgical approaches as well as potential development of different surgical techniques.

DESCRIPTION: - Each student is responsible for completing the dissection and study of the anatomy of the **thorax, abdomen** and **pelvis**, and selection and review of recent literature related to the region under study. Time will be divided between laboratory dissection, library reference study, and conference sessions with faculty, both clinical and basic science. Conferences directed by faculty will deal with the basic anatomy, both normal and abnormal, and with the practical utilization of that knowledge. Conferences directed by the student will deal with techniques from current literature.

EVALUATION: - Evaluation will be subjective by participating faculty, based on student performance and response in laboratory periods as well as selected topic presentations. At least one formal objective examination is proposed, be it oral or written.

LOCATION: - 1201 Medical Sciences Building

TIME: - 8:00 a.m., First day of rotation

DEPARTMENT OF CELL BIOLOGY AND NEUROSCIENCE

**ADVANCED GROSS ANATOMY III
LONGITUDINAL ELECTIVE
CBN 403**

**DURATION: Part Time for 4 Weeks
AVAILABILITY: Rotation 9**

**Glenn L. Wilson, Ph.D.
Susan P. LeDoux, Ph.D.
Phillip Fields, Ph.D.**

**MAX # STUDENTS: 30 (4 minimum)
TIME: Variable
Available as a 2 wk. elective?
YES__NO__ Ask Crs. Dir.__**

OBJECTIVE: - To expose the students to further detail of human anatomy as demonstrated in the cadaver and as utilized in the clinical setting, particularly in the rationalization of present surgical approaches as well as potential development of different surgical techniques.

DESCRIPTION: - Each student is responsible for completing the dissection and study of the anatomy of the **head** and **neck**, and selection and review of recent literature related to the region under study. Time will be divided between laboratory dissection, library reference study, and conference sessions with faculty, both clinical and basic science. Conferences directed by faculty will deal with the basic anatomy, both normal and abnormal, and with the practical utilization of that knowledge. Conferences directed by the student will deal with techniques from current literature.

EVALUATION: - Evaluation will be subjective by participating faculty, based on student performance and response in laboratory periods as well as selected topic presentations. At least one formal objective examination is proposed, be it oral or written.

LOCATION: - 1201 Medical Sciences Building

TIME: - 8:00 a.m., First day of rotation

DEPARTMENT OF CELL BIOLOGY AND NEUROSCIENCE

**ADVANCED NEUROANATOMY
LONGITUDINAL ELECTIVE
CBN 404**

DURATION: Variable
AVAILABILITY: By arrangement

Robert B. Chronister, Ph.D.

MAX # STUDENTS: 5
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.

OBJECTIVE: - To gain a detailed understanding of the structure of the nervous system at gross, microscopic, and ultrastructural levels especially in relation to recent clinical and experimental findings.

DESCRIPTION: - The course will consist of three phases:

1. A review of the topographic and internal anatomy of the nervous system;
2. Discussions by the faculty concerning current research of interest in neuroanatomy;
3. Discussions of functional and clinical neuroanatomy and areas of special interest.

EVALUATION: - The students will be evaluated according to their performance on presentations and discussions and/or on written/oral examinations.

LOCATION: - 1201 Medical Sciences Building

TIME: - 8:00 a.m., First day of rotation

DEPARTMENT OF CELL BIOLOGY AND NEUROSCIENCE

**TEACHING ASSISTANTSHIP
LONGITUDINAL ELECTIVE
CBN 405**

**DURATION: Variable (O.K. for 4 weeks)
AVAILABILITY: Rotations 2-5**

**Phillip Fields, Ph.D.
Glenn L. Wilson, Ph.D.
Susan P. LeDoux, Ph.D.**

**MAX # STUDENTS: 4
Available as a 2 wk. elective?
YES__NO__x Ask Crs. Dir. __**

OBJECTIVE: - The objective of this elective is to provide student-teaching contact experience for the elective participant as well as the opportunity to review a specific area of gross anatomy.

DESCRIPTION: - Teaching assistantships are available in the following areas: head and neck; thorax and abdomen; pelvis and perineum or extremities.

EVALUATION: - The assistant will be evaluated on the basis of adequacy of preparation for laboratory and conference sessions. Each participant will be subjected to a student critique. This critique will give the elective participant and his faculty supervisor some insight into his ability to interact with the students. Lastly, the assistant will participate in a pro-section which will be used for an instructional aid for medical students.

LOCATION: - 1201 Medical Sciences Building

TIME: - 1:00 p.m., First day of rotation

DEPARTMENT OF CELL BIOLOGY AND NEUROSCIENCE

**TEACHING ASSISTANTSHIP
LONGITUDINAL ELECTIVE
CBN 406**

**DURATION: Variable - O.K. for 4 Weeks
Availability: Rotations 4 - 6**

**Ron Balczon, Ph.D.
Y. Mohan Bhatnagar, Ph.D.
Stephen Kayes, Ph.D.
Warren Zimmer, Ph.D.**

**MAX # STUDENTS: 3
Available as a 2 wk. elective?
YES__NO__x Ask Crs. Dir. __**

OBJECTIVE: - The objective of this elective is to provide student teaching contact experience for the elective participant to assess the level of interest in academic medicine as well as the opportunity to review microscopic anatomy (histology). Students considering pathology specialization are encouraged to apply as this discipline should serve to stimulate increased interest on the part of first year students.

DESCRIPTION: - Participants will assist the faculty in teaching histology laboratories either pertaining to tissues (4 wks) or organ systems (4 wks. Or 8 wks for both). The student will be mentored by one of the listed faculty who will assume responsibility for the final evaluation of the student.

EVALUATION: - The participant will be evaluated on the basis of adequacy of preparation for laboratories and review sessions. Each participant will be subjected to a student critique (end-of-course-evaluation). The evaluation will give the student and his mentor insight into the ability to interact with the students. At the end of the rotation the participant and the faculty will participate in the post-mortem discussion of the laboratory portion of the course.

LOCATION: - Third Floor Teaching Labs, Medical Sciences Building

TIME: - 10:00 a.m., First day of rotation.

DEPARTMENT OF INTERNAL MEDICINE

**HISTORY OF MEDICINE
LONGITUDINAL ELECTIVE
MED 401**

**DURATION: Variable
AVAILABILITY: All rotations**

Samuel Eichold, M.D.

**MAX # STUDENTS: None
Available as a 2 wk. elective?
YES__NO__Ask Crs. Dir. x**

PREREQUISITE: - Approval of Course Preceptor

OBJECTIVE: - The objective of this elective is to provide the student with a historical perspective on some aspect of medicine or surgery. It is often stated that the future of the profession may be best understood by a familiarity with its past.

DESCRIPTION: - Material to be covered may consist of the art and practice of medicine from the earliest historic times through the area for study. Investigation that is historic, romantic or scientific will relate to some area of human illness in the evolution of medical practice. Study of the lives of leading personalities, the role of disease in shaping history and the unfolding of medical memorabilia stored within our community will afford four weeks of provocative effort.

EVALUATION: - Students will be evaluated on the basis of their grasp of the material presented, on their interest and thoroughness in researching selected topics in the library and finalized with a written discourse on a subject of their own choice.

LOCATION: - University of South Alabama Medical Center, 4th Floor, J Suite, Mastin Building

TIME: - 10:00 a.m., First day of rotation

DEPARTMENT OF RADIOLOGY

**STATISTICAL METHODS IN
CLINICAL MEDICINE
LONGITUDINAL ELECTIVE
RAD 401**

Donald Herbert, Ph.D.

DURATION: Variable*
AVAILABILITY: All Rotations

MAX # STUDENTS: 5
Available as a 2 wk. elective?
YES NO Ask Crs. Dir.

PREREQUISITE: - Approval of Instructor

OBJECTIVE: - The object of this elective is to acquaint the student with the use of statistical methodology in clinical medicine.

DESCRIPTION: - The course offers a survey at an elementary level of classical and Bayesian statistical methods; probability, classification and measurement, sampling, description, estimation, hypothesis testing, analysis of variance, correlation, regression, prediction, and decision. Examples are drawn from the medical literature. The duties and responsibilities of the student(s) will include meeting regularly with the instructor in tutorial sessions and the preparation of a short term paper on a topic in medical statistics that is of mutual interest to the student and the instructor. The paper may consist of one or more refereed evaluations of previously published research reports. The student will also prepare and maintain a notebook on his/her readings and tutorials. The education materials include a large library of textbooks, reports, and papers in statistical methods, as well as a PC computer with a large library of statistical software.

EVALUATION: - The student(s) is/are evaluated by examination, notebooks, and by the quality of the term paper that is submitted.

LOCATION: - 1225 MCSB

TIME: - 8:30 a.m., First day of rotation.

* May be taken full time

DEPARTMENT OF RADIOLOGY

**RADIOLOGICAL PHYSICS
AND RADIATION BIOLOGY
LONGITUDINAL ELECTIVE
RAD 402**

DURATION: Variable*
AVAILABILITY: All rotations

Donald Herbert, Ph.D.
Michael Harpen, Ph.D.

MAX # STUDENTS: 4
Available as a 2 wk. elective?
YES x NO ___ Ask Crs. Dir. ___

PREREQUISITE: Approval of instructor

OBJECTIVE: The object of this course is to acquaint the student with the physics and radiation biology of diagnostic and therapeutic radiology.

DESCRIPTION: The course offers a survey at an elementary level of the physics and radiation biology of diagnostic and therapeutic radiology. The sources, detection and measurement of ionizing radiation are reviewed. The interactions of radiation and matter are considered. The pathological effects of radiation are discussed. Dose-response relations and somatic and genetic effects are described and the pharmacological aspects of irradiation are developed. The principles of radiation protection are developed including the modification of the effects of a given dose of radiation by chemical enhancement or suppression. The duties and responsibilities of the student(s) will include meeting regularly with the instructor in tutorial sessions and the preparation of a short term paper on a topic in radiological physics or radiation biology that is of mutual interest to the student and the instructor. The student will also prepare and maintain a notebook on his/her readings and tutorials. The education materials include a large library of textbooks, reports, and papers in radiological physics and radiation biology, as well as 3 PC computers and radiation measuring instruments, etc.

EVALUATION: - The student(s) are evaluated by examination, problem sets, notebooks, and by the quality of the term paper that is submitted.

LOCATION: - 1225 MCSB

TIME: - 8:30 a.m., First day of rotation

*May be taken full time

Courses Available for Externships - Registration Information

In order to register for an externship at another institution, you will need to register for the appropriate department with the course number of 400. For example, if you plan to do an externship in Cardiology, you would register for MED 400. Here is a list of available externship departments:

Anesthesiology - ANY 400
Biochemistry Externship - BCH 400
Cell Biology/Neuroscience Externship - CBN 400
Emergency Medicine Externship - EMM 400
Family Practice Externship - FMP 400
Medical Genetics Externship - GEN 400
Medicine Externship - MED 400
Neurology Externship - NRY 400
Neurological Surgery Externship - NSY 400
Ob/Gyn Externship - OGY 400
Orthopaedic Externship - OPD 400
Pathology Externship - PAT 400
Pediatric Externship - PED 400
Pharmacology Externship - PHM 400
Physiology Externship - PHY 400
Radiology Externship - RAD 400
Surgery Externship - SUR 400