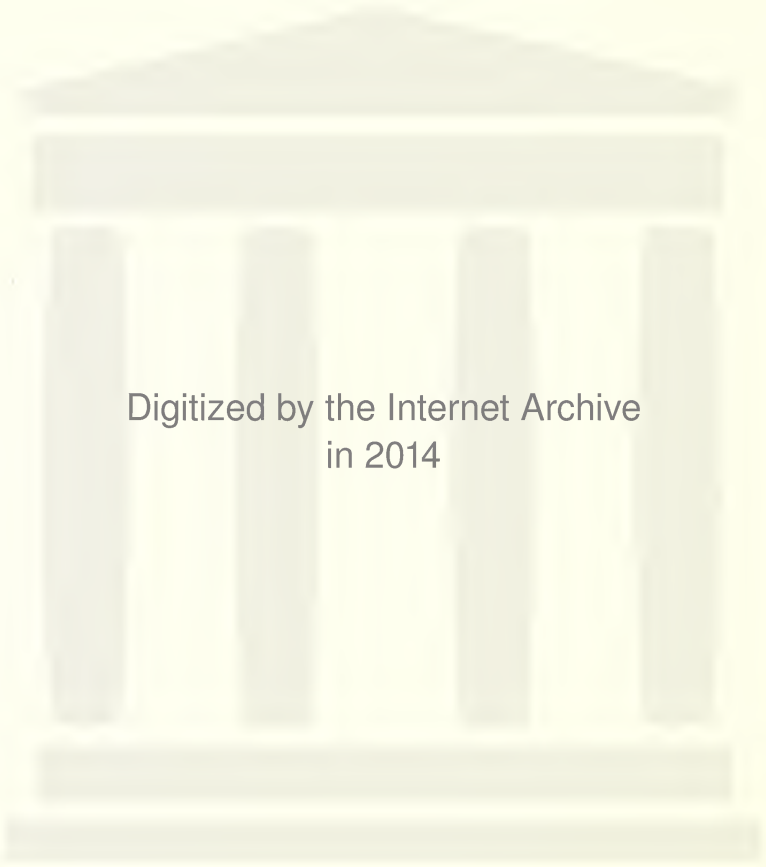
Medical College of Georgia Catalog 1998-99



Medical College of Georgia

Catalog

1998-99

About the Cover

The Medical College of Georgia Children's Medical Center.

The *Medical College of Georgia Catalog* is published by the Medical College of Georgia, 1120 Fifteenth Street, Augusta, Georgia 30912. Inquiries for further information should be addressed to the registrar of the college or to offices specified in various sections of the catalog. The Medical College of Georgia is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award certificates and associate, bachelor's, graduate and professional level degrees.

An Affirmative Action/Equal Opportunity Educational Institution

The Medical College of Georgia is an affirmative action/equal opportunity educational institution in that no person shall, on the grounds of sex, race, color, creed, national origin or handicap, be excluded from participation in, or otherwise subjected to, discrimination in any educational program, activity or facility.

Table of Contents

Academic Calendars

School of Allied Health Sciences

Fall Semester 1998

Orientation ..... August 19
Registration for new students ..... August 20
Registration for returning students ..... August 20 and 21
MCG classes begin ..... August 24
Exemption examination given at MCG for US and Georgia history and Constitution ..... August 24
Augusta State University classes begin ..... August 24
Last day for late registration or schedule changes ..... August 28
Labor Day holiday ..... September 7
Midterm: last day to withdraw from a course without a penalty ..... October 14
Pre-registration for spring semester ..... October 29–November 6
Regents' Test ..... TBA
Thanksgiving recess ..... November 25–27
Last day of classes ..... December 11
Examinations ..... December 14–18
Term ends ..... December 18

Spring Semester 1999

Orientation ..... January 4
Exemption examination given at MCG for US and Georgia history and Constitution ..... January 4
MCG classes begin ..... January 5
Augusta State University classes begin ..... January 6
Last day for late registration/schedule changes ..... January 8
Last day to apply for spring graduation ..... January 11
Martin Luther King, Jr. Holiday ..... January 18
Midterm: last day to withdraw from a course without a penalty ..... March 3
Regents' Test ..... TBA
Pre-registration for summer semester ..... March 8–19
Spring Break ..... April 3–11
Last day of classes ..... April 27
Examinations ..... April 28–30 and May 3–4
Term ends ..... May 4
Graduation ..... May 8

Summer Semester 1999

Orientation ..... May 12
Registration ..... May 12
Exemption examination given at MCG for US and Georgia history and Constitution ..... May 12
MCG classes begin ..... May 13

Augusta State University classes begin ..... TBA
Last day for late registration or schedule changes ..... May 18
Midterm: last day to withdraw from a course without a penalty ..... June 25
Independence Day holiday ..... July 5
Pre-registration for fall semester ..... July 6–16
Regents' Test ..... TBA
Last day of classes ..... August 10
Examinations ..... August 11–13
Term ends ..... August 13

Fall Semester 1999
Registration ..... August 18–20
Classes begin ..... August 23
Drop/Add ..... August 23–26
Labor Day holiday ..... September 6
Midterm: last day to withdraw from a course without a penalty ..... October 13
Thanksgiving recess ..... November 24–26
Last day of classes ..... December 10
Examinations ..... December 13–17

Spring Semester 2000
Registration ..... January 4
Classes begin ..... January 5
Drop/Add ..... January 5–10
Martin Luther King, Jr. Holiday ..... January 17
Midterm: last day to withdraw from a course without a penalty ..... March 2
Spring Break ..... April 1–9
Last day of classes ..... April 26
Examinations ..... April 27–28 and May 1–3
Graduation ..... May 6

Summer Semester 2000
Registration ..... May 10
Classes begin ..... May 11
Drop/Add ..... May 11–16
Midterm: last day to withdraw from a course without a penalty ..... June 23
Independence Day holiday ..... July 4
Last day of classes ..... August 8
Examinations ..... August 9–11

School of Dentistry

Fall Semester 1998
Orientation for new students ..... August 19–21
Registration for new students ..... August 19
Registration for returning students ..... August 21
MCG classes begin ..... August 24
Labor Day holiday ..... September 7

Midterm: last day to withdraw from a course without a penalty .....October 14
Thanksgiving recess .....November 25–27
Term ends .....December 18

Spring Semester 1999
Classes begin .....January 5
Last day to apply for spring graduation .....January 11
Martin Luther King, Jr. Holiday .....January 18
Midterm: last day to withdraw from a course without a penalty .....March 3
Spring Break .....April 3–11
Spring semester ends .....May 4
Graduation .....May 8

Summer Semester 1999
Classes begin .....May 13
Midterm: last day to withdraw from a course without a penalty .....June 25
Independence Day holiday .....July 5
Term ends .....August 13

Fall Semester 1999
Registration .....August 18–20
Classes begin .....August 23
Drop/Add .....August 23–26
Labor Day holiday .....September 6
Midterm: last day to withdraw from a course without a penalty .....October 13
Thanksgiving recess .....November 24–26
Last day of classes .....December 10
Examinations .....December 13–17

Spring Semester 2000
Registration .....January 4
Classes begin .....January 5
Drop/Add .....January 5–10
Martin Luther King, Jr. Holiday .....January 17
Midterm: last day to withdraw from a course without a penalty .....March 2
Spring Break .....April 1–9
Last day of classes .....April 26
Examinations .....April 27–28 and May 1–3
Graduation .....May 6

Summer Semester 2000
Classes begin .....May 11
Drop/Add .....May 11–16
Midterm: last day to withdraw from a course without a penalty .....June 23
Independence Day holiday .....July 4
Term ends .....August 9

School of Graduate Studies

Fall Semester 1998

Registration (with Medicine) . . . . . August 7
Classes begin (with Medicine) . . . . . August 10
Registration for new students . . . . . August 19
Orientation . . . . . August 22
Classes begin (all other) . . . . . August 24
Last day for late registration or schedule changes . . . . . August 28
Labor Day holiday . . . . . September 7
Midterm: last day to withdraw from a course without a penalty . . . . . October 14
Pre-registration for spring semester . . . . . October 26–November 6
Thanksgiving recess . . . . . November 25–27
Last day of classes (with Medicine) . . . . . December 11
Examinations . . . . . December 14–18
Term ends . . . . . December 18

Spring Semester 1999

Registration . . . . . January 4
Classes begin (with Medicine) . . . . . January 4
Classes begin (Graduate Studies) . . . . . January 5
Last day for late registration/schedule changes . . . . . January 8
Last day to apply for spring graduation . . . . . January 11
Martin Luther King, Jr. Holiday . . . . . January 18
Midterm: last day to withdraw from a course without a penalty
(Graduate Studies with Medicine also) . . . . . March 3
Pre-registration for summer semester . . . . . March 8–19
Spring Break . . . . . April 3–11
Last day of classes (Graduate Studies) . . . . . April 27
Examinations (Graduate Studies) . . . . . April 28–30 and May 3–4
Term ends (Graduate Studies) . . . . . May 4
Graduation . . . . . May 8
Last day of classes (with Medicine) . . . . . May 14
Examinations (with Medicine) . . . . . May 17–21
Term ends (with Medicine) . . . . . May 21

Summer Semester 1999

Orientation . . . . . May 12
Registration . . . . . May 12
MCG classes begin . . . . . May 13
Last day for late registration or schedule changes . . . . . May 18
Midterm: last day to withdraw from a course without a penalty . . . . . une 25
Independence Day holiday . . . . . July 5
Pre-registration for fall semester . . . . . July 6–16
Last day of classes . . . . . August 10
Examinations . . . . . August 11–13
Term ends . . . . . August 13

Fall Semester 1999

Registration ..... August 18–20
Classes begin ..... August 23
Drop/Add ..... August 23–26
Labor Day holiday ..... September 6
Midterm: last day to withdraw from a course without a penalty ..... October 13
Thanksgiving recess ..... November 24–26
Last day of classes ..... December 10
Examinations ..... December 13–17

Spring Semester 2000

Registration ..... January 4
Classes begin ..... January 5, 7–10
Drop/Add ..... Janaury 5–10
Martin Luther King, Jr. Holiday ..... January 17
Midterm: last day to withdraw from a course without a penalty ..... March 2
Spring Break ..... April 1–9
Last day of classes ..... April 26
Examinations ..... April 27–28 and May 1–3
Graduation ..... May 6

Summer Semester 2000

Registration ..... May 10
Classes begin ..... May 11
Drop/Add ..... May 11–16
Midterm: last day to withdraw from a course without a penalty ..... June 23
Independence Day holiday ..... July 4
Last day of classes ..... August 8
Examinations ..... August 9–11

School of Medicine

Fall Semester 1998 for Phase I

Registration and Orientation ..... August 6–7, 1998
Classes begin ..... August 10, 1998
Labor Day holiday ..... September 7, 1998
Thanksgiving vacation ..... November 25–29, 1998
Last day of classes ..... December 11, 1998
Final exam week ..... December 14–18, 1998

Spring Semester 1999 for Phase I

Classes begin ..... January 4, 1999
Martin Luther King, Jr. holiday ..... January 18, 1999
Spring break ..... April 5–11, 1999
Last day of classes ..... May 14, 1999
Final exam week ..... May 17–21, 1999

Fall Semester 1998 for Phase II

Registration deadline ..... August 7, 1998
First day of classes ..... August 10, 1998
Labor Day holiday ..... September 7, 1998
Thanksgiving vacation ..... November 25–29, 1998
Last day of classes ..... December 11, 1998
Final exam week ..... December 14–18, 1998

Spring Semester 1999 for Phase II

First day of classes ..... January 4, 1999
Martin Luther King, Jr. holiday ..... January 18, 1999
Spring break ..... April 5–11, 1999
Last day of classes ..... May 14, 1999
Final exam week ..... May 17–21, 1999

Phase III Rotation Schedule for 1998-1999*

	Begins	Ends	Weeks
June rotation for class of 2000	June 15	July 7	3.5
Clinical skills for class of 2000	July 8, 9, 10, 1998		
July rotation	July 13	August 9	4
August rotation	August 10	September 6	4
September rotation	September 7	October 4	4
October rotation	October 5	November 1	4
November rotation	November 2	November 25	4
Thanksgiving holiday for all students	November 26–29, 1998		
December rotation	November 30	December 20	3
Christmas holiday for all students	December 21, 1998–January 3, 1999		
Return for December rotation	January 4	January 10	1
January rotation	January 11	February 7	4
February rotation	February 8	March 7	4
March rotation	March 8	April 4	4
Spring holiday for all students	April 5–11, 1999		
April rotation	April 12	May 9	4
April rotation for graduating seniors	April 12	May 5	3.5
May rotation	May 10	June 6	4
June rotation	June 7	July 4	4
Step I United States Medical Licensing Exam	June 9–10, 1998 and October 20–21, 1998		
Step II United States Medical Licensing Exam	August 25–26, 1998 and March 2–3, 1999		
Graduation	May 8, 1999		

Six-week Rotation Dates

1. 07/13/98–08/23/98
2. 08/24/98–10/04/98
3. 10/05/98–11/15/98
4. 11/16/98–01/10/99
5. 01/11/99–02/21/99
6. 02/22/99–04/04/99
7. 04/12/99–05/23/99
8. 05/24/99–07/04/99

*This schedule is subject to change.

Last Official Date/Deadline for Dropping* and Adding 1998-99

June ..... Friday, May 22, 1998
July ..... Friday, June 19, 1998
August ..... Friday, July 17, 1998
September ..... Friday, August 14, 1998
October ..... Friday, September 11, 1998
November ..... Friday, October 9, 1998
December ..... Friday, November 6, 1998
January ..... Friday, December 4, 1998
February ..... Monday, January 15, 1999
March ..... Friday, February 12, 1999
April ..... Friday, March 12, 1999
May ..... Friday, April 16, 1999
June ..... Friday, May 14, 1999

*Deadline for dropping is three weeks before the elective begins. All dropping and adding is done through the Curriculum office.

If a student withdraws from a scheduled elective, with special permission after the last scheduled drop date, the elective will appear on their official transcripts with the designation "W" (withdrew). The student will not be allowed to enroll in another elective for credit during this period.

School of Nursing

Fall Semester 1998

Orientation for new RN to BSN students ..... August 19
Registration for new RN to BSN students ..... August 20
Registration for returning students ..... August 21
MCG classes begin ..... August 24
Exemption examination given at MCG for US and Georgia history and Constitution ..... August 24
Augusta State University classes begin ..... August 24
Last day for late registration or schedule changes ..... August 28
Labor Day holiday ..... September 7
Midterm: last day to withdraw from a course without a penalty ..... October 14
Pre-registration for spring semester ..... October 29–November 6
Regents' Test ..... TBA
Thanksgiving recess ..... November 25–27
Last day of classes ..... December 11
Examinations ..... December 14–18
Term ends ..... December 18

Spring Semester 1999

Registration ..... January 4
Exemption examination given at MCG for US and Georgia history and Constitution ..... January 4
MCG classes begin ..... January 5
Augusta State University classes begin ..... January 6
Last day for late registration or schedule changes ..... January 8
Last day to apply for spring graduation ..... January 11

Summer Semester 1999

Fall Semester 1999

Spring Semester 2000

Summer Semester 2000

General Information

Introduction

This edition of the Medical College of Georgia Catalog provides some essential information about Georgia's health sciences university. Designed for those already a part of the MCG academic community as well as new and prospective students and faculty, the descriptive material will help the reader learn more about MCG—its character, heritage, objectives, academic programs, admissions and degree requirements and procedures.

This catalog also contains detailed descriptions of many of the courses of instruction and related information to assist those seeking a program that best meets their needs.

Accreditation

The Medical College of Georgia is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1886 Southern Lane, Decatur, Georgia 30033-4097, telephone number 404/679-4501) to award one-year and advanced certificates and degrees at the associate, baccalaureate, master's, first professional and doctoral level.

Institutional Mission

The Medical College of Georgia, chartered in 1828 as a single academy to provide instruction in "several branches of the healing art," is a major academic health center and a health sciences research university. The institution, consisting of the schools of Allied Health Sciences, Dentistry, Graduate Studies, Medicine and Nursing and the Hospital and Clinics, serves a highly focused and specialized student body. As an academic health center and research university, the Medical College of Georgia is committed to:

- Excellence in academic achievement, which will bring to it national and international recognition
- Development of a fully-integrated and cost efficient health care system that provides leading edge clinical innovation and technology
- A shared responsibility for meeting the health care needs of a widely dispersed and highly diverse population broadly-based research, scholarship and creative endeavors consistent with the highest standards of academic excellence

In view of these commitments, the Medical College of Georgia affirms the following major purposes:

- to provide outstanding educational programs for both health professionals, biomedical scientists and educators at the undergraduate, graduate and postgraduate levels and for lifelong learning through excellence in teaching and the total development of students in response to the health needs of the state of Georgia
- to provide a high quality, state-of-the art health care system, which includes health promotion and disease prevention, and to encourage, test and improve access through the use of innovations in health care delivery responsive to the changing demographics and needs of the people of the state and nation
- to be a leading center of excellence in research through the generation and application of biomedical knowledge and technology to human health and disease and to play an expanding role in the transfer of technology to the health care delivery system

In fulfilling this mission, the Medical College of Georgia aspires to be one of the nation's premier academic health centers for

outstanding education, committed public service and leading-edge research and scholarship. As it pursues this goal, the institution is determined to embody the concept of interactive, ongoing partnerships embracing students, patients and the public across the state and nation in order to effectively serve those who seek a career, those who seek knowledge and those who seek care.

The Medical College of Georgia is a unit of the University System of Georgia and as such is committed to the following:

- a supportive campus climate, necessary services and leadership and development opportunities, all to educate the whole person and meet the needs of students, faculty and staff
- cultural, ethnic, racial and gender diversity in the faculty, staff and student body, supported by practices and programs that embody the ideals of an open democratic and global society
- technology to advance educational purposes, including instructional technology, student support services and distance learning
- collaborative relationships with other System institutions, State agencies, local schools and technical institutes and business and industry, sharing physical, human, information and other resources to expand and enhance programs and services available to the citizens of Georgia

As a University System Research University with a statewide scope of influence, the Medical College of Georgia shares a commitment to:

- excellence and responsiveness in academic achievements that impart national or international status
- a teaching/learning environment, both inside and outside the classroom, that sustains instructional excellence, serves a diverse and well-prepared student body, provides academic assistance and promotes high levels of student achievement
- wide-ranging research, scholarship and creative endeavors that are consistent with the highest standards of academic excellence, that are focused on organized programs to create, maintain and apply new knowledge and theories and that promote instructional effectiveness and enhance institutionally relevant faculty qualifications
- public service, economic development and technical assistance activities designed to address the strategic needs of the State of Georgia along with a comprehensive offering of continuing education programs, including continuing professional education to meet the needs of Georgia's citizens for life-long learning
- a range of disciplinary and interdisciplinary academic programming at the baccalaureate, masters and doctoral levels, as well as a range of professional programs at the baccalaureate and post-baccalaureate level, including the doctoral level

A History of the Medical College of Georgia

Founded in 1828, the Medical College of Georgia in Augusta is the health sciences university of the University System of Georgia. The School of Medicine is among the oldest existing medical schools in the United States. Today, there are four additional schools: Graduate Studies, which awarded its first degrees in 1951, was established as a separate school by the Board of Regents in 1965; Nursing moved to Augusta from Athens in 1956; Dentistry was established by the regents in 1965; and Allied Health Sciences was established as a separate school in 1968, incorporating existing MCG programs, one of which had granted its first degrees in 1964.

The university has experienced rapid growth the past 40 years, during which time the campus physical plant has grown from just three buildings on little more than 45 acres to more than 90 buildings on approximately 100 acres today. And construction or expansion of facilities planned over the next few years will continue that growth trend. Today, approximately 870 faculty and 5,450 staff make MCG the city's largest single employer and student enrollment, including residents and interns, is maintained at about 2,550.

MCG was started in two borrowed rooms at the rear of Augusta's old City Hospital 167

years ago, with its assets consisting of little more than the vision of its founders. It was in those early years that Drs. Milton Antony, Joseph Adams Eve, Lewis D. Ford and later L. A. Dugas and Paul Eve, with the support of many Augusta citizens, began building the rich heritage that MCG now enjoys.

In 1833, members of the first graduating class received their doctor of medicine degrees. Four students were in that graduating class. Today, the university offers programs in more than 50 degree fields and graduates approximately 700 students per year. Additionally, graduate training in 44 specialty areas of medicine and dentistry is offered to more than 440 residents and interns annually.

Even in the early days of MCG, changes came quickly. In 1835, MCG moved into its first permanent home at the corner of Telfair and Sixth streets in Augusta. This building, now called the Old Medical College and recently renovated as an MCG meeting area, was vacated in 1913, when the institution moved to its present midcity campus. Except for a brief interim during the Civil War, MCG has operated continuously since its founding.

From 1913 to 1950, MCG experienced exciting times, celebrating its 100th birthday in 1928. Faculty members as well as students were called to service in World Wars I and II. During this period, in spite of strong efforts to relocate the institution (with both Athens and Atlanta supported as potential new homes), Augusta won out as the university's permanent home. Internally, the faculty moved to dynamically change the curriculum, while at the state level the University System of Georgia was established.

In 1950, MCG's long affiliation with the University of Georgia, begun in 1873, was discontinued. MCG was designated as a separate unit of the University System of Georgia and resumed its historic name, the Medical College of Georgia.

A vital source of MCG's program is its 540-bed teaching hospital and its various clinics. The founders of MCG certainly could not have foreseen the rise of a great teaching hospital as part of the MCG medical complex known today. MCG Hospital and Clinics is the major referral center for the state; patients come to Augusta from throughout Georgia, every other state and numerous foreign countries because of MCG's rising reputation for the care of complex and difficult diseases.

The founders could not have anticipated the honors and recognition that would mark MCG's first century-and-a-half of service to the cause of health care, health education and research on behalf of the people of Georgia. Dr. Virgil Sydenstricker was acclaimed worldwide when he uncovered evidence that identified the specific vitamin deficiencies related to pellagra and other diet-related conditions. Dr. Sydenstricker, along with Dr. W. A. Mulherin, also planted the seed for research on sickle cell anemia. Today MCG's sickle cell research and clinical program is world renowned. Another Medical College of Georgia researcher, Dr. W. F. Hamilton, developed instruments and techniques that were vital forerunners of present-day open-heart surgery. Yet another area where MCG pioneered research that has brought international acclaim is in endocrinology, particularly the work of Dr. Robert Greenblatt.

Other research scientists in recent years have made important contributions to the world's knowledge of cancer, cardiovascular disease, freezing and preserving human organs in surgical techniques and in the use of new dental materials.

MCG's commitment to quality education, research and patient care is even stronger today than in the past. As it has throughout its history, MCG will continue to fulfill its purposes and serve the people of Georgia throughout this century and into the next.

Degrees Offered

The following degrees and certificates are granted by MCG through its schools:

School of Allied Health Sciences

Associated Dental Sciences

—Bachelor of Science in Dental Hygiene

Health Information Management

—Bachelor of Science in Health Information Management

Medical Technology
—Bachelor of Science in Medical Technology
—Certificate in Flow Cytometry
—Certificate in Medical Technology
Occupational Therapy
—Bachelor of Science in Occupational Therapy
—Associate of Science in Occupational Therapy Assistant
Physician Assistant
—Bachelor of Science
Radiologic Technologies
—Bachelor of Science in Radiologic Sciences
—Associate of Science in Nuclear Medicine Technology
—Associate of Science in Radiography
—Associate of Science in Radiation Therapy Technology
—Certificate in Diagnostic Medical Sonography
—Certificate in Nuclear Medicine Technology
—Certificate in Radiation Therapy Technology
Respiratory Therapy
—Bachelor of Science

School of Dentistry
Doctor of Dental Medicine

School of Graduate Studies
Doctor of Philosophy
Master of Science
Master of Health Education
Master of Nursing
Master of Science in Medical Illustration
Master of Science in Nursing
Master of Science in Oral Biology
Master of Physical Therapy

School of Medicine
Doctor of Medicine

School of Nursing
Bachelor of Science in Nursing

Concurrent Degrees
School of Graduate Studies—School of Medicine
Doctor of Philosophy—Doctor of Medicine
Master of Science—Doctor of Medicine
School of Graduate Studies—School of Dentistry
Master of Science—Doctor of Dental Medicine

Accessibility to Handicapped

The Medical College of Georgia's physical facilities and institutional programs have been modified in accordance with federal law and regulations to allow equally effective access by handicapped persons. Structural changes, such as adaptations to public restrooms and construction of ramps and curb cuts, have been made to improve accessibility. Special services may be made available on a reasonable basis in accordance with reported needs of individual handicapped students.

In accordance with Section 504 of the Rehabilitation Act of 1973 and The Americans With Disabilities Act, it is the policy of the Medical College of Georgia to insure that all students with disabilities are afforded equal opportunity and access to programs and facilities. Students are encouraged to identify their disability so that the medical college can determine what reasonable accommodation may be made.

Please contact Ms. Elizabeth Griffin, Director of Academic Admissions or Mr. James McLeod, Registrar, to self-identify.

Admission Requirements

Admission requirements and application procedures, including information pertaining to application forms, personal interviews and pre-entrance testing are listed within each school's section of this catalog. The most up-to-date information can be obtained from the Office of Academic Admissions (programs in allied health sciences, nursing and graduate studies), the School of Medicine-Student Admisssions Office (medicine) or the Office of Student Admissions and Academic Support, School of Dentistry (dentistry).

The university is an affirmative action/equal opportunity educational institution in that no person shall, on the grounds of gender, race, color, creed, religion, age, national origin or handicap, be excluded from

participation in, or be otherwise subjected to discrimination in any educational program, activity or facility.

The Medical College of Georgia is committed to an effective affirmative action policy. MCG strives to recruit, admit and educate a cross-section of qualified men and women representing the socio-economic, racial and cultural diversity of Georgia. This commitment is in keeping with our moral, legal and social responsibility and with the highest ideals and principles of American higher education.

Transfer Credit

Courses and credits transferable to an undergraduate program from other colleges or universities must have a grade point average acceptable to the university, but in no case less than 2.00 overall for courses transferred. Credit will not be granted for remedial courses or other courses that are basically of a secondary-school level. Individual schools/programs may have higher standards for transfer credit, in which case those standards apply.

At the decision of the appropriate academic dean, a student transferring into professional programs from any institution may be required to have professional course work validated by standardized examinations to gain advanced standing and receive college credit for such course work. An application will not be considered from a student who is not in good standing at the institution he/she has attended previously, unless officials at the last institution he/she attended recommend consideration of the application.

An applicant who wishes to transfer to the university must submit official transcripts of all course work attempted from the registrar at every institution of higher education at which he/she has ever enrolled. Transcripts sent by the applicant or transcripts without an official seal and registrar's signature will not be accepted.

The total number of hours that may be earned toward an undergraduate degree by extension or correspondence courses, CLEP or ACT-PEP examinations or any combination of these, shall not exceed one-fourth of the total credit hours required for a degree. Exceptions to this policy may be made for CLEP or ACT-PEP credits when unusual circumstances or hardship so warrant, in the judgment of the dean of the school concerned. Credit from correspondence courses and/or extension courses is subject to validation to the satisfaction of the dean of the school concerned.

Any credit that is more than 10 years old is subject to validation to the satisfaction of the dean of the school concerned. Credits from institutions that are not part of the University System of Georgia or are not accredited by a regional accrediting association are subject to validation to the satisfaction of the dean of the school concerned.

Technical Standards

Qualifications for admission to, and graduation from, any school of the Medical College of Georgia requires satisfaction of the following general technical standards:

1. Sufficient intellectual capacity to fulfill the curricular requirements.
2. Ability to effect multi-modal communication with patients, colleagues, instructors and/or other members of the health-care community.
3. Physical ability to learn and implement the various technical skills required by the faculty.
4. Sufficient emotional stability to withstand the stress, uncertainties and changing circumstances that characterize the respective health-care profession. Standards have been developed for individual programs for evaluation of prospective and enrolled students. These standards are admissions and graduation guidelines and are subject to continuing revision and improvement.

Readmission of Former Students

Former students of the School of Allied Health Sciences or the School of Nursing who wish to return to the same program previously attended may contact the registrar concerning readmission procedures. Other former students seeking readmission should contact the appropriate admissions office.

Transient Students

A student who has taken work in a college or university may apply for temporary registration at the Medical College of Georgia as a transient student. Such a student ordinarily will be one who expects to return to the college or university in which he/she was previously enrolled.

Enrollment of Persons 62 Years of Age or Older

Pursuant to the provisions of an amendment to the Georgia Constitution adopted on Nov. 2, 1976, the Board of Regents has established the following rules with respect to enrollment of persons 62 years of age or older in units of the University System. To be eligible for enrollment under provisions of this amendment such persons:

1. Must be residents of Georgia, 62 years of age or older at the time of registration and must present a birth certificate or other comparable written documentation of age to enable the registrar to determine eligibility.
2. May enroll as regular or auditing students in courses offered for resident credit on a "space available" basis without payment of fees, except for supplies, laboratory or shop fees.
3. Must in general meet all system and institution undergraduate or graduate admission requirements to include high school graduation, SAT scores and Special Studies, if enrolling for credit. Institutions may exercise discretion in exceptional cases where circumstances indicate that certain requirements such as high school graduation and SAT score requirements are inappropriate. In those instances involving discretionary admission, institutions will provide diagnostic methods to determine whether or not participation in Special Studies will be required prior to enrollment in regular credit courses. Reasonable prerequisites may be required in certain courses.
4. Will have all usual student and institutional records maintained; however, institutions will not report such students for budgetary purposes.
5. Must meet all system, institution and legislated degree requirements such as Regents' Test, Major Area Exam and History and Constitution Instruction or Exams, if they are degree-seeking students.
6. May not enroll in dental, medical, veterinary or law schools under the provisions of this policy. (Minutes, 1976–77, pp. 443–444)

Foreign Student Requirements

Before a formal application can be considered, foreign applicants to the Schools of Allied Health Sciences, Nursing and Graduate Studies must provide certain preliminary admissions information including an official evaluation completed by our designated evaluation service. Contact the Office of Academic Admissions for the name and address of this service. Scores on the Test of English as a Foreign Language (TOEFL) and the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board or the ACT (American College Testing Program) scores must be submitted, together with an estimate of the total amount of money which the student can apply toward his education for the upcoming year. Address all inquiries to the Office of Academic Admissions, 170 Kelly Building—Administration, Medical College of Georgia, Augusta, GA 30912.

Academic Regulations

Units of Credit

The unit of credit is the semester hour. A semester hour equals 50 minutes of class work per week for one semester, or its equivalent in other forms of instruction. Credit given for particular courses is as stated in the course listings of this catalog, or as defined at the time of registration by the various schools.

Course Numbering System

The university offers courses numbered 1000 to 2990 to students in the lower division of undergraduate schools and courses numbered 3000 to 4999 to students in the upper division of undergraduate schools. Graduate courses are numbered from 6000 to

9999. Certain courses are offered to undergraduate, graduate and professional students jointly. Such courses are numbered appropriately for each class and degree program.

Courses in the Schools of Medicine and Dentistry are numbered from 5000 to 5990. Developmental and remedial courses, which do not carry academic credit for graduation purposes, have course numbers of 0999 and below.

Classification of Students

The classification under which a student registers at the beginning of each academic semester will continue throughout the academic semester.

Undergraduate students are classified as follows:

Classifications	*Hours Earned*
Freshman	less than 30
Sophomore	at least 30
Junior	at least 60
Senior	at least 90

Grades

The Medical College of Georgia is on the 4.0 grade point average system. The following grades are approved for use in the Medical College of Georgia and are included in the determination of the grade point average:

Grade	*Description*	*Grade Points*
A	excellent	4.0
B	good	3.0
C	satisfactory	2.0
D	passing*	1.0
F	failure	0.0
WF	withdrew, failing	0.0

The following symbols are approved for use in the cases indicated, but will not be included in the determination of the grade point average.

I—This symbol indicates that a student was doing satisfactory work but, for non-academic reasons beyond his control, was unable to meet the full requirements of the course. The requirements for removal of an *I* are left to the respective schools; however, if a school does not designate a shorter time period, an *I* not satisfactorily removed after two semesters in residence will be changed to the grade of F by the registrar.

W—This symbol indicates that a student was permitted to withdraw without penalty. Any student who withdraws on or before midterm will receive a *W*. Withdrawals without penalty will not be permitted after the mid-point of the total grading period (including final examinations) except in cases of hardship as determined by the appropriate academic dean.

S**— This symbol indicates that credit has been given for completion of degree requirements other than academic course work. The use of this symbol is approved only for dissertation and thesis hours, student teaching, clinical practicum, internship and proficiency requirements in graduate programs.

U**—This symbol indicates unsatisfactory performance in an attempt to complete degree requirements other than academic course work. The use of this symbol approved only for dissertation and thesis hours, student teaching, clinical practicum, internship and proficiency requirements in graduate programs.

V—This symbol indicates that a student was given permission to audit this course. After the last day of late registration, students may not transfer from audit to credit status or vice versa.

K—This symbol indicates that a student was given credit for the course via a credit by examination program approved by the respective school's faculty. (CLEP, AP, Proficiency, etc).

IP—At MCG, this symbol designates a course that extends beyond the semester. A grade is not given until the course is completed. This symbol cannot be substituted for an *I* (Incomplete).

Grade Changes

Any grade recorded by the registrar will be changed in accordance with MCG and Regents' grading policies upon receipt from the instructor of a completed Grade Change Report form. Forms are available from the registrar.

Repeated Course Work

By registering for a course for which credit has already been received, a student forfeits credit toward graduation in the previous course. The final grade for graduation purposes will be the grade in the repeated course; however, all hours attempted and grades earned will appear on the transcript and be used in computing the grade point average.

Registration

Registration for courses must be completed on the dates slated in the academic calendar.

Registration procedures are the responsibility of the registrar. Notification of these procedures and any changes in the academic calendars will be sent to students at the appropriate time.

Continuing Enrollment During Breaks in the Academic Calendar

All students are considered to be enrolled and in good standing from the time they register for a semester: (1) until they register for the next semester; or (2) through the last day for late registration for the next semester as shown on the official academic calendar, whichever occurs first.

Adding and Dropping Courses

Additions to a student's course schedule will not be allowed after the deadline for adding courses set forth in the academic calendar of the institution offering the course.

A course may be dropped without penalty up to the midterm date set forth in the academic calendar. Following this deadline, a student dropping a course will receive a *WF* (Withdrew Failing), except in cases of hardship as determined by the appropriate academic dean. *WF* grades will be treated as *F* grades for grade point calculations.

Courses may only be added or dropped by following procedures established by the registrar. The refund of matriculation fees is limited to withdrawal from the institution and not for dropping of individual courses.

Late Registration Policy

1. Students failing to register by the last date of regular registration for their school or program, to include payment of fees, shall be permitted to register during the time designated for late registration. However, a late fee of $25 shall be assessed for any student registering late.
2. In keeping with Board of Regents policy, registration fees are due and payable at the time of registration. The student cannot be enrolled until all registration and other fees are paid in full.
3. No student shall be permitted to register after the last date of late registration, except in cases of unusual circumstances as judged by the dean of the school concerned or by the president of the Medical College of Georgia. In such cases, the student shall be required to pay the late registration fee in addition to the regular registration fees.

While reasonable efforts shall be made to inform students of registration dates and any changes in the dates published in the catalog, ***it is the student's responsibility to keep apprised of such changes.***

Auditors

Regularly enrolled MCG students may register for courses as auditors. No academic credit shall be awarded to students enrolled on this basis. After the last day for registration, no changes from an audit basis to credit or from credit to audit will be permitted. Students auditing courses will be required to pay the regular fees for enrollment. (See the "Fees" section of this catalog.) Courses taken as audits do not count toward financial aid eligibility.

Attendance

Regular, punctual attendance is expected of students in all classes and is counted from the first class meeting each term. Students who incur an excessive number of absences are subject to academic penalty.

Specific attendance requirements may be established by individual schools/programs.

Professional Liability Insurance

Students in the health professions are required to participate in various clinical learning experiences as a prerequisite to suc-

cessful completion of programs of study. Many of the clinical facilities where these learning experiences take place will only accept students who are covered by professional liability insurance. Students may contact the office of the dean of the MCG school in which they expect to enroll for information on the availability and cost of such coverage.

Academic Honesty

The university recognizes honesty and integrity as being necessary to the academic function of the institution. Regulations promulgated in the interest of protecting the equity and validity of the university's grades and degrees and to help students develop standards and attitudes appropriate to academic life are contained in the Student Handbook or in school honor codes.

Dean's List

To recognize superior academic performance among undergraduates, a Dean's List is compiled quarterly. The achievement of each student who qualifies is acknowledged and noted on the student's permanent record. To qualify for the Dean's List, a student must have attempted 12 or more hours of graded academic work in a semester and have achieved a grade point average of at least 3.50. For students with Incompletes, Dean's List computations will not be made until a grade is determined.

Dean's List qualifications for the School of Dentistry are stated in the school's section of this catalog.

Graduation with Honors

Baccalaureate or Associates Degrees

MCG awards undergraduate degrees with honors to candidates who meet specific standards of academic excellence as measured by the grade point average. In order to be considered for a degree with honors, a student must have completed a minimum of 90 quarter hours (60 semester hours) in residence for a baccalaureate degree and 45 hours (30 semester hours) in residence for an associate degree, and only work taken in residence* will be considered. The honors grade point average is computed beginning with the quarter or semester of initial enrollment or with enrollment in the School of Nursing or current program for students in the School of Allied Health Sciences. The standards are as follows:

Summa cum laude	3.90
Magna cum laude	3.70
Cum laude	3.50

Certificates MCG Awards honors to students who successfully complete a program of study in a certificate program. In order to be considered for a certificate with honors, a student must have completed a minimum of 45 quarter hours (30 semester hours) in residence, and only work taken in residence* will be considered. The honors grade point average is computed beginning with the quarter or semester of initial enrollment or current program for students in the School of Allied Health Sciences. The standards are as follows:

Highest Honors	3.90
High Honors	3.70
Honors	3.50

For baccalaureate and associate degrees and certificates, grade point averages will be rounded to the nearest hundredth to determine eligibility. This distinction of high academic achievement is placed on the student's diploma or certificate and is noted on the permanent record.

*Residence credit is defined as "course taken for which matriculation/tuition fees are paid to the Medical College of Georgia."

Normal Course Load

The normal course load may vary with the degree program. Students may be required to register for a course load less than the normal course load if this action is determined to be advisable in the light of the student's academic standing or for other reasons. An undergraduate student who in any semester registers for less than 12 semester hours and a graduate studies student who registers for less than 12 semester hours, is considered a part-time student; a student who registers for more hours than these is considered a full-time student. No student of the Schools of Allied Health Sciences, Graduate Studies or

Nursing may register without special approval from his/her dean for any hours above the norm (including audit courses) in any given academic semester.

The School of Medicine does not admit students on a part-time basis. Students may, with appropriate approval, carry lesser academic loads than other students because of academic or scheduling problems. However, these students are considered to be committed to full-time pursuit of the M.D. degree.

The School of Dentistry. All D.M.D. degree-seeking students are considered to be full-time and are expected to devote full-time efforts toward completing requirements for the degree. Most students complete the program in four calendar years and take a uniform semester course schedule. Other students may, with special permission, complete the degree program in more than four years and take a variable semester course load designed to meet their academic or scheduling circumstances.

The only exception to this rule is for part-time faculty who may be allowed to register as part-time students in order to complete the D.M.D. degree. A limited number of special students, who are not degree-seeking, may also be permitted to enroll part-time.

Planning the Academic Program

The academic program of each student should be planned in consultation with the academic adviser, major professor or other person as designated by the dean of the school concerned; however, the student is ultimately responsible for meeting all graduation requirements for the degree sought.

Withdrawal from the University

A student who wishes to withdraw must report to the registrar to obtain and complete procedures outlined in the Withdrawal Form.

A student who is not enrolled for three consecutive semesters will be administratively withdrawn from the college. *(See Section of "Refund of Fees.")*

Examinations

A student may be required to perform acceptably on any examination before graduation as deemed appropriate by the academic deans, president and/or Board of Regents.

Academic Probation, Dismissal and Suspension

The following policy applies to all undergraduate programs. Policies for graduate-level programs are stated under the appropriate school section of this catalog.

Academic Probation. Any undergraduate student whose grade point average (GPA) for any semester is below 2.0 (on a 4.0 scale) or whose cumulative MCG GPA is below 2.0 at the end of any semester shall be considered on academic probation (subject to the provisions of the following dismissal and suspension policies). More stringent departmental probation standards may be applied.

Academic dismissal is the involuntary separation from the university of a student who fails to maintain academic standards. Any undergraduate student shall be dismissed whenever he/she:

1. Receives a failing grade in all academic courses in any semester in which the student attempts more than one academic course;
2. Fails to achieve and maintain at least a 1.80 cumulative GPA for all resident work after 30 hours and a 2.0 for all resident work at the end of any academic year thereafter;
3. Fails to achieve a semester GPA of at least 2.0 in the semester immediately following his/her placement on probation.

Any student dismissed for academic reasons and seeking to be readmitted may reapply for the next regular admission date following standard application procedures. Where circumstances warrant, a student dismissed under the provisions of this policy may be reinstated as a student on probation upon written authorization of the dean and subject to conditions of continuation established by the dean at the time of reinstatement.

Academic suspension differs from academic dismissal in that a time period may be stated after which return to the program may be permitted. A student who has been suspended may be advised of any conditions nec-

essary for reinstatement and may be permitted to re-enroll at the appropriate time after meeting these conditions.

Individual school/department policy may be established which dictates that an undergraduate student who fails to make at least a *C* in any course which is essential to further study in the curriculum of the program in which he/she is enrolled may be suspended. Where the course is essential to some but not all further study, the department may choose to offer the student a reduced academic load over an increased number of semesters to assist the student in completing the program of study.

Courses considered to be essential to further study should be identified for the student by the school/ department at the time the student enters the program.

Good Standing and Satisfactory Progress

A student is considered to be in good standing and making satisfactory progress each semester he/she is permitted to enroll as a degree-seeking student.

Regents Testing Program Examination

An examination (the Regents' Test) to assess the competency level in reading and writing of all students enrolled in undergraduate degree programs leading to the baccalaureate degree in University System institutions shall be administered. The following statement shall be the policy of the Board of Regents of the University System of Georgia on this examination.

The formulation and administration of the Regents' Test shall be as determined by the Chancellor.

Each institution of the University System of Georgia shall assure the other institutions, and the System as a whole, that students obtaining a degree from that institution possess certain minimum skills of reading and writing. The Regents' Testing Program has been developed to help in the attainment of this goal. The objectives of the Testing Program are:

(1) to provide System-wide information on the status of student competence in the areas of reading and writing; and (2) to provide a uniform means of identifying those students who fail to attain the minimum levels of competence in the areas of reading and writing.

Students enrolled in undergraduate degree programs leading to the baccalaureate degree shall pass the Regents' Test as a requirement for graduation. Students must take the test in their first semester of enrollment after earning 30 credit hours if they have not taken it previously. (Institutions may not prohibit students who have earned at least 30 credit hours from taking the test for the first time.) At an institution's discretion, students may be permitted to take the test during a semester in which they are not enrolled.

Each institution shall provide an appropriate program of remediation and shall require students who have not passed both parts of the test by the time they have earned 45 credit hours to take the appropriate remedial course or courses each semester of enrollment until they have passed both parts.

Students with 30 or more semester credit hours transferring from outside of the System or from a System program that does not require the Regents' Test should take the test during their first semester of enrollment in a program leading to the baccalaureate degree. Those who have not passed before their third semester of enrollment are subject to the remediation requirement.

The Regents' Test is not a requirement for an Associate of Applied Science degree or an Associate of Science degree in an allied health field, although institutions may choose to require the Test for these degrees.

A student holding a baccalaureate or higher degree from a regionally accredited institution of higher education will not be required to complete the Regents' Test in order to receive a degree from a University System institution.

The Chancellor will issue administrative procedures for the operation of the Regents' Testing Program.

In order to effectively achieve the goals of the testing program, the following MCG policy has been adopted:

1. Initially taking the test:
   A. Students seeking the baccalaureate degree initially must take the exam not

later than the semester after they complete 30 hours of degree credit. Transfer students entering bachelor-degree programs with 30 hours or more of credit shall take the test no later than their second semester of enrollment at MCG.

B. Students who fail to take the test by the time specified in this policy must take the test the next semester they are enrolled or they will be suspended.

2. Required remedial course work:
   A. Students must have passed the Regents' Test before or during the semester in which they will have earned 45 hours of degree credit, or they must take the appropriate non-degree credit course or courses in remedial reading and/or remedial writing in each semester of attendance thereafter until they have passed all components of the test.
   B. Students must take the Regents' Test each semester they take required remediation until all components of the test are passed.
   C. Students enrolled in Regents' Test remedial courses are required to attend. Failure to attend the course will result in suspension from MCG under these conditions:
      1) if the student receives more than two unexcused absences in the course and
      2) if the student subsequently fails either or both parts of the Regents' Test, then:
         a. the student will be placed on probation and enrolled the next semester in the appropriate remedial course.
         b. the student will be suspended if he or she receives more than two unexcused absences during this second remedial course, and again fails either or both parts of the test.
3. Students suspended under this policy may appeal or be reinstated in accordance with the same procedures applicable to academically suspended students *(See Academic Probation, Dismissal and Suspension and Appeals sections of the MCG Catalog.)*
4. Having passed the Regents' Test shall not be a condition of transfer into a MCG school or department; however, all transferring bachelor's degree-seeking students shall be subject to all provisions of this policy.
5. Students whose native language is not English will satisfy the Regents' Test requirement by the following:
   A. Reading Portion–All international students whose native language is not English admitted to an undergraduate program must make a minimum of 550 on the Test of English as a Foreign Language (TOEFL). Such a score would satisfy the reading portion of the Regents' Test.
   B. Essay Portion–All students whose native language is not English will be required to demonstrate competency in composing an essay.
      1) The hour requirements for taking the essay will be the same for international students as it is for all other students. For example, students must take the test the semester after which they complete 30 hours, and must have remediation the semester after which they complete 45 hours.
      2) The three graders of the essay will be the same as the Essay Review Committee. The graders also will approve the topics to be used on the essay.
      3) Remediation for the essay will consist of the course offered all other students on the MCG campus, as well as the course English as a Foreign Language taught at Augusta State University.
6. For extraordinary situations, the institution shall develop special procedures for certifying the literacy competence of students. A written description of those procedures shall be submitted to the chancellor for approval. A record of the action shall be reported by the chancellor to the Education Committee of the Board of Regents. Such procedures shall include provision for remediation if needed and formal examination prior to certifying competency. Such examination shall equal or exceed the standards of the Regents' Testing Program.
7. Students with a documented learning disability and/or severe test anxiety may

request a special administration of the Regents' Test. Documentation must include an evaluation by a team associated with the Medical College of Georgia. Additional information may be obtained from the Registrar's Office. In order for a student to receive special accommodations because of test anxiety, the student must have enrolled in Regents' Test remediation at least two semesters. In addition, there must be substantial evidence that the student has the skills required for passing the test but because of severe anxiety is unable to display the skills during a regular test administration.

8. A student may request a formal review of his/her failure on the essay component of the Regents' Test if that student's essay received at least one passing score among the three scores awarded and if the student has successfully completed the courses in English composition required by MCG. This review will be conducted in accordance with board-approved procedures.
9. A student who fails both parts of the Regents' Test and who is required to participate in remediation shall be allowed to take the reading and essay portions of the test in separate quarters.

Procedures for the Review Process—Regents' Testing Program

A student may request a formal review of his or her failure on the essay component of the Regents' Test if that student's essay received at least one passing score among the three scores awarded. The review procedures shall be as follows:

A. A student must initiate the review procedure by mid-term of his/her first quarter of enrollment after the quarter in which the essay was failed. The review must be initiated, however, within one calendar year from the quarter in which the failure occurred.
B. All applicable regulations of the Regents' Test Policy remain in effect for those students whose essays are under review, including those regulations relating to remediation and to retaking the Test.
C. The review will be initiated at the campus level, with procedural matters to be determined by the institution. The on-campus review, however, will be conducted by the three faculty members designated by the institution as a review panel. The on-campus review panel may (1) sustain, by majority opinion, the essay's failing score, thus terminating the review process, or (2) recommend, by majority opinion, the re-scoring of the essay by the Regents' Testing Program central office. The student will be notified concerning the results of the on-campus review. A decision by the on-campus review panel to terminate the review process is final.
D. If the on-campus panel recommends re-scoring of the essay, that recommendation will be transmitted in writing, along with the essay, to the office of the System Director of the Regents' Testing Program. The Director will utilize the services of three experienced Regents' essay scorers other than those involved in the original scoring of the essay to review the essay, following normal scoring procedures for the essay component of the Regents' Test. The decision of the panel on the merits of the essay will be final, thus terminating the review process. The student will be notified through the institution concerning the results of the review.

Educational Records

Official academic records are maintained by the registrar. Access to these records is governed by the Family Educational Rights and Privacy Act of 1974, as amended. A listing of all students' educational records maintained by the institution is contained in the Student Handbook, which is available from the Division of Student Affairs.

Curriculum Changes

The new knowledge continually emerging in the health sciences, changing concepts in the delivery of health care and consideration of certification and licensure requirements may necessitate changes in the curriculum of a given school. However, when such changes

are anticipated or made after careful review and evaluation, full consideration will have been given to the impact these changes might have on the student's overall academic program during his/her period of matriculation. Consideration will also be given to the impact of any changes on the faculty and the institution as a whole.

Changes in Catalog Requirements

The statements set forth in this catalog are for informational purposes only and should not be construed as the basis of a contract between a student and this institution.

While the provisions of the catalog will ordinarily be applied as stated, the Medical College of Georgia reserves the right to change any provision listed in this catalog, including but not limited to academic requirements for graduation, without actual notice to individual students. Reasonable effort will be made to keep students advised of any such changes. Information on changes will be available in the offices of the president, academic deans, registrar and student affairs. It is especially important that students note that it is their responsibility to keep themselves apprised of current graduation requirements for their particular degree program.

Limitation on Institutional Liability

In the event that an administrative hearing officer or a court of record determines that "publications" issued by the institution create a contractual or quasi-contractual relationship with any person, the amount of damages recoverable by the parties shall be limited to the amount of consideration paid by the person for the privilege of admission, enrollment, continued enrollment or other service rendered by the institution to such person. As used herein, the term "publications" (without limiting the generality of the normal meaning of the term) shall be deemed to include any and all written forms or other documents issued by the institution concerning applications for admission, enrollment or continued enrollment, waivers of liability, consents to medical treatment, dormitory occupancy and any and all other written forms, documents, letters or other materials issued by the university in furtherance of its educational mission.

Requirements for Graduation

All financial obligations to the institution must be met prior to graduation.

Requirements for Graduate, Medical and Dental Degrees

Requirements for graduate, medical and dental degrees are stated in this catalog under the sections for the School of Medicine, School of Dentistry and School of Graduate Studies.

Requirements for Associate and Baccalaureate Degrees

Requirements in addition to those listed below for associate and baccalaureate degrees may be stated in this catalog under the sections for the School of Allied Health Sciences and the School of Nursing.

1. **Recommendation by Faculty.** It is implicit in the requirements for all degrees conferred by the university that the faculty of each school recommend each candidate for a degree as having met all requirements for the degree to be conferred.
2. **Residence Requirements.** Every candidate for a baccalaureate or associate degree at the Medical College of Georgia must earn a minimum of 30 semester hours in residence.
3. **Total Credit Requirements.** A minimum of 120 semester hours (excluding physical education) is required for a baccalaureate degree and a minimum of 60 semester hours (excluding physical education) is required for an associate degree.
4. **Regents' Testing Program Examination Requirement.** The University System of Georgia requires that each student receiving a bachelor's degree from a state-supported college must have successfully completed this examination *(See the section on the Regents Testing Program Examination in this catalog.)*
5. **Examinations on the History and**

Constitutions of the United States and Georgia. Examinations on these subjects are required of all baccalaureate and associate-degree students unless exempted by presentation of course credit dealing with these constitutions and histories. The examination will be given once each semester on the dates listed in the latest academic calendar for the appropriate school. Students are advised to meet this requirement early in their academic career.

6. **Scholarship.** An undergraduate degree shall not be conferred on any person whose overall grade point average (for courses in residence) is less than 2.0. Credit hours in courses with the grade of D shall not exceed 20 percent of the total hours (including transfer hours) used as credits for a degree. Individual curricula may establish higher standards for achievement, in which case, the higher standards shall apply.

Application for Graduation

Application for graduation must be made by each candidate on a form obtainable from the following offices:

Allied Health Sciences—Departments
Dentistry—Associate Dean for Academic Affairs
Graduate Studies—Dean
Medicine—Curriculum
Nursing—Advisement and Records

The application form should be completed at least one and a half semester before graduation. The candidate for a degree from the university must attend the commencement exercise at which the degree is to be conferred, unless he/she is officially excused in writing by the appropriate academic dean.

Only those students who have completed requirements for the degree by the date of graduation will be allowed to participate in commencement exercises and to have their names listed in the program. Exceptions to this policy may be made for:

1. Students who are expected to complete requirements within a few weeks following commencement either at an affiliated college or at MCG. In the case of those at MCG, this is permitted only upon the recommendation of the dean and the president and the actual date of completion of requirements must appear on the diploma. These exceptions apply only to students scheduled for completion of requirements prior to the end of summer semester. The student will receive a mock diploma in the ceremony.
2. Students enrolled in an academic program with a restrictive curriculum which provides completion of requirements only after the normal graduation time but before Dec. 31. All academic major areas under these guidelines must be approved for special graduation participation by the academic dean and the president. Only an academic major area can be approved, not an individual. The allowance will be restricted to undergraduate majors. The student will receive a mock diploma in the ceremony. The student's name in the program will be footnoted explaining the special circumstances of his/her participation.

Housing

The Medical College of Georgia has limited residence hall and apartment accommodations on the campus for single undergraduates, single graduates, professional students and married students. All accommodations are air conditioned. In most residence halls, rent includes all utilities.

The housing contracts for Residences III, IV and the Alumni Center stipulate students pay rent for a specified contract period. Payments are made in semester installments: two for the academic year and one for summer semester. Separate housing contracts for the academic year and summer semester are offered. Semester installment payments are shown below.

An activity fee of $2 per semester is assessed for all residence halls.

Residence III and the Alumni Center

Single Room:	$975 per semester
Double Room:	$585 per semester
Suite Single:	$1,305 per semester
Suite Double:	$855 per semester

Residence IV
Single Room: $975 per semester
Double Room: $585 per semester

Residence V
One Bedroom: $1,467 per semester
Two Bedroom: $1,600 per semester
Utilities are included in the rental rate.

Residence VI
One Bedroom: $1,113 per semester
Two Bedroom: $1,213 per semester
Utilities are not included in the rental rate.

Application Procedures and Information
Students accepted for admission to MCG and interested in applying for housing should contact the Housing Office, Medical College of Georgia, DA-205, Augusta, Georgia 30912–7304.

Off-Campus Housing

Students interested in viewing off-campus housing listings in the Augusta area may contact the Housing Office, Medical College of Georgia, DA-205, Augusta Georgia 30912–7304.

Fees

Costs of materials, books, deposits, uniforms, instruments and/or personal expenses are estimated in each school's section of the catalog.

The following general fees must be *received* by the cashier's office on or before registration day to avoid paying a $25 late registration fee. Payments can be personally delivered to the cashier's office, room 224 of the Administration Building, or mailed to Medical College of Georgia, Cashier's Office, Augusta, Georgia 30912.

The late registration policy is published in the Academic Regulations Section of this catalog.

Part-Time Students
(Graduate and undergraduate students taking less than 12 credit hours)
Graduate Programs
Matriculation Fee—$111 per credit hour
Non-Resident Fee—$334 per credit hour
(In addition to the matriculation fee.)
Student Health—$105 per semester
Student Activity—$38 per semester
Undergraduate Programs
Matriculation Fee—$96 per credit hour
Non-Resident Fee—$289 per credit hour
(In addition to the matriculation fee.)
Student Health—$105 per semester
Student Activity—$38 per semester
Student Health and Student Activity fees are optional if taking five credit hours or less.

Medical and Dental Students Taking Variable Course Loads
Medical students enrolled in a special curriculum or for clinical rotations and dental students enrolled for a schedule that varies from the prescribed four-year curricular schedule shall pay fees at the time of registration each semester in accordance with a fee schedule available in the registrar's office and cashier's office.

General Tuition and Fees Due Each Semester
Full-time Students

	Tuition	*Non-Resident*	*Student Health*	*Student Activity*	*Total*
Medical and Dental					
Georgia Residents	$2,431	—	105	38	$2,574
Non-Residents	$2,431	7,293	105	38	$9,867
Graduate Program					
Georgia Residents	$1,335	—	105	38	$1,478
Non-Residents	$1,335	4,005	105	38	$5,483
Undergraduate Programs					
Georgia Residents	$1,155	—	105	38	$1,298
Non-Residents	$1,155	3,465	105	38	$4,763

Audit Fees

Fees for auditing a course are the same as the fees for regular enrollment. *(See the Academic Regulations section for policy regulating course audits.)*

Acceptance Deposits

All schools of the Medical College of Georgia require a $50 acceptance deposit which will be credited toward first-semester matriculation fees. Those accepted applicants who fail to notify the appropriate admissions office of their withdrawal in writing not later than the last day of regular registration of their entering class shall forfeit their acceptance deposit.

Refund of Fees

Unless otherwise mandated by federal or state regulation, students who officially withdraw from school will receive a refund of matriculation, student health and activity fees at the end of the quarter or semester in which the withdrawal is made. Students who officially withdraw from school with a clean record within the time specified after the scheduled registration date may receive refunds of matriculation, student health and activity fees as listed:

Formal Withdrawal	Refund
On or before the first day of class	100%
Withdrawal after the first day of class but before the end of the first 10% (in time) of the period of enrollment	90%
Withdrawal after the first 10% (in time) of the period of enrollment but before the end of the first 25% (in time) of the period of enrollment	50%
Withdrawal after the first 25% (in time) of the period of enrollment but before the end of the first 50% (in time) of the period of enrollment	25%
Withdrawal after the first 50% (in time) of the period of enrollment	0

The refund of fees is limited to withdrawal from the institution and not for dropping of individual courses. Details concerning the refund or repayment of financial aid due to withdrawal are available from the Office of Student Financial Aid.

Changes in Fees and Other Charges

All matriculation charges, board, room rent or other charges listed in this catalog are subject to change at the end of any quarter or semester.

Regents' Policies Governing the Classification of Students for Tuition Purposes

The following policies have been adopted by the Board of Regents to determine the tuition status of students:

1. (a) If a person is 18 years of age or older, he/she may register as an in-state student only upon a showing that he/she has been a legal resident of Georgia for at least 12 months immediately preceding the date of registration.
   (b) No emancipated minor or other person 18 years of age or older shall be deemed to have gained or acquired in-state status for tuition purposes while attending any educational institution in this state, in the absence of a clear demonstration that he/she has in fact established legal residence in this state.
2. If a person is under 18 years of age, he or she may register as an in-state student only upon a showing that his or her supporting parent or guardian has been a legal resident of Georgia for a period of at least 12 months immediately preceding the date of registration.
3. If a parent or legal guardian of a minor changes his or her legal residence to another state following a period of legal residence in Georgia, the minor may continue to take courses for a period of 12 consecutive months on the payment of in-state tuition. After the expiration of the 12-month period, the student may continue his or her registration only upon the payment of fees at the out-of-state rate.
4. In the event that a legal resident of Georgia is appointed as guardian of a non-resident minor, such minor will not be permitted to register as an in-state student until the expiration of one year from the date of court appointment and then only upon a

proper showing that such appointment was not made to avoid payment of the out-of-state fees.

5. Aliens shall be classified as non-resident students; provided, however, that an alien who is living in this country under an immigration document permitting indefinite or permanent residence shall have the same privilege of qualifying for the in-state tuition as a citizen of the United States.
6. Waivers: An institution may waive out-of-state tuition for:
   (a) non-resident students who are financially dependent upon a parent or spouse who has been a legal resident of Georgia for at least 12 consecutive months immediately preceding the date of registration; provided, however, that such financial dependence shall have existed for at least 12 consecutive months immediately preceding the date of registration;
   (b) international students who are on a student visa, and:
      1) are sponsored by a recognized non-profit U.S. organization and at least 50 percent of the student's cost of attending MCG is paid by the organization. (Cost of attending includes all expenses as determined by the Office of Student Financial Aid for a typical student budget); or
      2) are recommended by their school dean and approved by the president, based upon the president's judgment that the international students' circumstances and/or the best interest of MCG warrant a non-resident fee waiver. Each case is considered on its merit. Financial need and other hardship factors will be considered.

      The number of international student waivers cannot exceed the quota approved by the Board of Regents, which is 1 percent of the fall quarter enrollments for the academic year concerned.
   (c) full-time employees of the University System, their spouses and their dependent children;
   (d) non-resident graduate students who hold teaching or research assistantships requiring at least one-third time service at MCG;
   (e) full-time teachers in the public schools of Georgia and their dependent children. Teachers employed full-time on military bases in Georgia shall also qualify for this waiver;
   (f) career consular officers and their dependents who are citizens of the foreign nation their consular office represents and who are stationed and living in Georgia under orders of their respective governments. This waiver shall apply only to those consular officers whose nations operate on the principle of educational reciprocity with the United States;
   (g) military personnel and their dependents stationed in Georgia and on active duty unless such military personnel are assigned as students to system institutions for educational purposes;
   (h) enrolled Medical College of Georgia students who are legal residents of out-of-state counties bordering on Georgia counties where a Medical College of Georgia campus is located.

In addition to the above, students in certain degree programs may qualify for a non-resident fee waiver under the academic common market. Information on these waivers is available through the admissions office of application or the registrar.

A student is responsible for registering under the proper residency classification. A student classified as a non-resident who believes that he/she is entitled to be reclassified as a legal resident and those who believe they qualify for a fee waiver may petition the registrar for a change in status. The petition must be filed no later than 60 days after the quarter in order for the student to be considered for reclassification or the waiver for that quarter. If the petition is granted, reclassification will not, and a non-resident fee waiver may not, be retroactive to prior quarters. The necessary forms for this purpose are available in the registrar's office.

Financial Assistance for Students

The Office of Student Financial Aid administers financial aid programs and provides assistance in financial planning for attendance at the Medical College of Georgia. Students who are concerned about financing their education should contact the Office of Student Financial Aid, 2013 Administration Building, Medical College of Georgia, Augusta, Georgia 30912–7320.

Student Discipline, Grievances and Appeals

Students are expected to act in a manner which will be a credit to themselves and to the institution. Additional information regarding student responsibilities and the judicial system is contained in the *Student Handbook* under "Student Conduct Code." Also, individual schools with honor codes provide copies at the respective dean's office.

Grievances

For a student who reasonably believes he has been discriminated against on the basis of race, gender, handicap or religion or who has been subjected to sexual harassment, the *Student Handbook* outlines grievance procedures he must follow in seeking redress.

Appeals

Students subjected to disciplinary action by the institution shall have the appeal rights published in the *Student Handbook* or in the school honor codes distributed to each enrolled student.

Students dismissed or suspended for academic reasons, and applicants for admission who feel their applications have not been given due consideration, should first appeal to the department and/or school concerned and follow their established appeal procedures.

After the above channels have been followed, any applicant who feels his application was not given due consideration, and any expelled, dismissed or suspended students, shall have the right to appeal in accordance with the following procedures as specified by the Board of Regents:

1. The person aggrieved shall appeal in writing to the president within five days of the action of which he complains. The president shall within five days appoint a committee composed of three members of the faculty of the institution or shall utilize the services of an appropriate existing committee. This committee shall review all facts and circumstances connected with the case and shall within five days make its findings and report thereon to the president. After consideration of the committee's report, the president shall within five days make a decision that shall be final so far as the institution is concerned.
2. Should the aggrieved person be dissatisfied with the decision, application may be made to the Board of Regents, without prejudice, for a review of the decision. The application for review shall be submitted in writing to the executive secretary of the board within 20 days, following the decision of the president. This application for review shall state the decision complained of and the redress desired. A review by the board is not a matter of right, but is within the sound discretion of the board. If the application for review is granted, the board, or a committee of the board or a hearing officer appointed by the board shall investigate the matter thoroughly and report their findings and recommendations to the board. The board shall render its decision within 60 days of the filing date of the application for review or from the date of any hearing which may be held thereon. The decision of the board shall be final and binding for all purposes.

School of Allied Health Sciences

Dean—Dr. Biagio J. Vericella
Associate Dean for Academic Affairs
—Dr. Nancy D. Prendergast
Assistant Dean for Clinical Affairs
—Peter J. Kendall

School of Allied Health Sciences

The School of Allied Health Sciences at the Medical College of Georgia was established as an administrative entity in 1968. Prior to this date, a master of science program in medical illustration and bachelor of science programs in health information management, medical technology and radiography had been active; in 1967, the dental hygiene program was initiated. Since then, programs in occupational therapy, physician assistant, nuclear medicine technology, respiratory therapy, diagnostic medical sonography and radiation therapy technology have been added. In addition, the associate of science degree is awarded in occupational therapy assistant. Professional certificate programs are offered in diagnostic medical sonography, nuclear medicine technology, radiation therapy technology, medical technology and flow cytometry. The master of health education (M.H.E.) degree program is available in dental hygiene, health information management, medical technology, occupational therapy and physical therapy; the M.H.E. will be available in physician assistant, radiologic sciences and respiratory therapy pending Board of Regents approval. A Master of Science interdisciplinary degree program is open to all allied health practitioners. See School of Graduate Studies. The Masters of Physical Therapy degree program was approved in 1996, replacing the B.S. In 1997, 294 degrees were awarded in all areas and at all levels in allied health disciplines.

Information pertaining to application, admission, fees and expenses, loans and scholarships can be found in each department's section of this book or in the General Information section of the catalog.

Orientation

Consistent with the purposes of the Medical College of Georgia, the purposes and goals of the School of Allied Health Sciences are based on the belief that an atmosphere of academic scholarship and investigation results in:

1. Faculty who can be facilitators, mentors, fellow learners and role models for students;
2. An educational process which is responsive to variability in student aptitude, interest and motivation;
3. Students who can develop the ability to make decisions and become more independent in seeking higher levels of excellence in their personal and professional lives; and
4. Dissemination of advanced knowledge and discovered information through publications and other avenues of communication.

Purpose and Goals

—Preparation of qualified allied health practitioners;
—development and implementation of educational curricula that will meet the needs of students;
—provision of continuing education programs for allied health practitioners;
—promotion of cooperation among the departments and schools of the Medical College of Georgia to provide interdisciplinary educational programs;
—collaboration with the people of Georgia in surveying health-care needs and helping

resolve these through allied health education programs and research;
—creation of public awareness of allied health practitioners and their roles in the delivery of health care; and
—generation and application of new knowledge for the betterment of health care services.

Application Procedures

Application forms with instructions for completing the admission procedure may be obtained from the Office of Academic Admissions.

Early application is recommended. An application fee of $25 is required.

Admission Criteria

Departments in the School of Allied Health Sciences use basically the same criteria for admission. Some departments pay particular attention to grades in specific prerequisite courses; some are more concerned with overall grade point average. The importance of previous health-care experience varies from program to program. Each department has its own philosophy as to the weight to be assigned to each criterion. But generally, the selection criteria are as follows:

a. Cumulative grade point average
b. Grade point average in sciences and math
c. Scholastic Aptitude Test (SAT)—verbal and math scores or American College Testing (ACT) scores
d. References
e. Personal interview
f. Knowledge of the field
g. Completion of prerequisite general education coursework

Preference will be given the applicant who has demonstrated superior academic ability. The applicant must present evidence of graduation from an accredited high school or its equivalent. Preference will be given the applicant who has emphasized high school subjects in the sciences (mathematics, chemistry, physics, biology) and the liberal arts.

Non-academic Exclusion

Any student may be denied permission to continue enrollment in the School of Allied Health Sciences if, in the opinion of the faculty, the student's knowledge, character, or mental or physical fitness cast grave doubts upon his potential capabilities as a practitioner in the field of training.

Associated Dental Sciences

General

In cooperation with the School of Dentistry, this department offers programs leading to the bachelor of science degree in dental hygiene.

A baccalaureate program for practicing dental hygienists who are graduates of an accredited dental hygiene program is offered with emphasis on education administration and/or advanced clinical skills. Prospective candidates should write the department chairman for further information.

Objectives

The baccalaureate degree program in dental hygiene has been designed to prepare graduates for clinical practice under the supervision of a licensed dentist.

The graduate will have developed knowledge and skills in the prevention of dental disease which is the primary duty of the dental hygienist. Other skills developed during the education program include taking and recording medical and dental histories, performing an oral inspection, exposing and processing dental radiographs, removing deposits and stains from teeth, polishing teeth, applying preventive agents, preparing diagnostic casts and other duties that may be assigned by the dentist.

Graduates are eligible to take the National Board Dental Hygiene Examination and State Board Examinations for Dental Hygiene.

Additional clinical experiences are afforded baccalaureate-degree students in a variety of

clinical settings during the second year of the program.

Accreditation

The program in dental hygiene is accredited by the Commission on Dental Accreditation of the American Dental Association.

Admission Requirements

1. Two years of study at an accredited college of the student's choice precede admission to the baccalaureate program. A balanced program of studies in the liberal arts and sciences is preferred. The curriculum for the freshman and sophomore years must show a minimum of 60 semester hours or 90 quarter hours of acceptable work. Students must complete the core curriculum below prior to entering MCG.

Area of the Core	*Semester Hours*
A. Essential Skills	*9*
English Composition I	3
English Composition II	3
College algebra, mathematical modeling, trigonometry, pre-calculus or calculus	3
*B. Institutional Options**	*4–5*
Introduction to Computers	
Critical Thinking	
Creative Writing	
Ethics	
Health and Wellness	
Statistics	
Economics	
Speech	
Technical/Scientific Writing	
Any approved guided elective from Area F	
*C. Humanities and Fine Arts**	*6*
Ethics	
Fine and Applied Arts	
Foreign Language	
Speech, Oral communications	
World literature	
Philosophy	
Drama, Art or Music Appreciation	
Logic	
Electives in Humanities and Fine Arts	
D. Science, Mathematics and Technology	*10-11*

(1) One four-hour laboratory science course, one three-hour non-laboratory sciences course and an additional three-hour course in science, mathematics or technology or (2) two four-hour laboratory science courses and an additional three-hour course in science, mathematics or technology.

*E. Social Sciences**	*12*
United States History	
United States government	
Psychology	
Sociology	
Anthropology	
Group Process	
Human Development	
Social Problems	
Racial and Ethnic Minorities	
F. Courses Appropriate to the Major	*18*

This area consists of 18 hours of lower-division (1000- and 2000-level) courses related to the program of study or prerequisite to courses required in the major.

Speech (Required)**	3
Anatomy and Physiology (Required)**	8
Sociology (Required)**	3
Psychology (Required)**	3

Guided approved electives: Statistics, Educational Psychology, Child Psychology, Health Psychology, Consumer Behavior, Economics, Computer Science, Social Problems, Sociology of Aging, Gerontology, Racial and Ethnic Minority Groups, Methods in Social Research, Abnormal Psychology, Chemistry.

*If a student planning to transfer to MCG from another school in the University System of Georgia has completed this area with courses taken at that USG institution or at another institution from which MCG accepts transfer credit, MCG will accept the area as satisfied. A student planning to transfer from a school not in the University System of Georgia should choose courses from those listed.

** If this course is taken in another area of the core, the hours would be available to

be taken in guided electives.
2. The cumulative grade point average of all transfer credit must be a minimum of 2.0 (on a 4.0 system).
3. SAT or ACT scores.
4. A campus visit is advised prior to admission.
5. Three letters of reference are required.
6. Preference is given to Georgia residents.

Application Procedures

The Admissions Committee selects the applicants who seem best qualified for dental hygiene from among those who apply. Application forms are available from the Office of Academic Admissions. Early application is recommended. All completed applications received by Aug. 1 of the year of matriculation will be considered for the Augusta programs.

Estimated Fees and Expenses

Matriculation and other fees common to all programs are stated in the General Information section of the catalog. Estimated additional expenses specific to dental hygiene are shown below. These figures are based upon the normal experience of our students. In some cases, costs may be higher.

	First Year	*Second Year*
Books and supplies	$ 528	$ 177
Instruments/equipment	570	570
Uniforms	140	35
Liability insurance	15	15
Other (travel, graduation, etc.)	90	60
Total	*$1,343*	*$ 857*

Financial Aid

Refer to the General Information section of this catalog.

Curriculum

Baccalaureate Degree Program

Junior Year

Fall Semester		*Credit Hours*
BCM 3130	Biochemistry	3
DHY 3100	Clinic I	4
DHY 3110	Theory and Practice I	3
DHY 3120	Dental Anatomy	2
AHS 3610	Ethics for Health Professionals	1
ANMD 3140	Oral Anatomy and Physiology	4
	Total	*17*

Spring Semester		*Credit Hours*
DHY 3200	Clinic II	4
DHY 3210	Theory and Practice II	3
RADD 3290	Dental Radiology	2
MIBD 3230	Dental Microbiology	2
PER 3260	Periodontics	1
DHY 3240	Dental Health and Wellness	1
AHS 3640	Introduction to Statistics	1
AHS 3650	Intro. to Research Design	1
	Total	*15*

Summer Semester		*Credit Hours*
DHY 4300	Patient Care I	3
DHY 4310	Seminar I	2
DHY 4320	Research Design and Critical Thinking	2
PATH 4330	Pathology	3
AHS 3660	U. S. Health Care	1
OBI 3133	Nutrition	2
	Total	*13*
	First-Year Total	**45**

Fall Semester		*Credit Hours*
DHY 4420	Dental Materials	2
DHY 4400	Patient Care II	4
DHY 4410	Seminar II	2
PHM 4430	Pharmacology	3
RADD 4490	Radiologic Technique I	1
DHY 4440	Community Health	2
DHY 4450	Dental Speciality Clinic I	1
	Total	*15*

Spring Semester		*Credit Hours*
DHY 4500	Patient Care III	3-4
DHY 4510	Seminar III	2
RADD 4590	Radiologic Technique II	1
OMD 4520	Oral Medicine	2
DHY 4530	Externship	2
PER 4570	Periodontal Seminar	2
DHY 4550	Dental Specialty Clinic II	1
DHY 4540	Practice Administration	2
	Total	*15-16*
	Second-Year Total	**30–31**
	Program Total	**75–76**

Academic Standards

Refer to the General Information section of this catalog.

Student Evaluation

The Student Evaluation Committee

Academic progress of students is monitored by the Student Evaluation Committee. At the end of each quarter, and at any other time deemed appropriate by the committee, the Student Evaluation Committee reviews and evaluates each student's performance and recommends one of the following to the chairman of the DADS:

1. continued enrollment as a regular student, special student or student on academic probation;
2. repeating of course work or a portion of the curriculum in any deficient areas, as appropriate; or
3. dismissal.

Failing Grades

When a student fails, the course must be repeated. However, only those students who have demonstrated satisfactory attendance and academic/clinical efforts as defined at the beginning of the course by the course director may repeat a course. Students may be required to repeat an entire course, selected courses, a complete academic year or withdraw from the program.

Special Students

Any student who, as a result of academic deficiencies, is required to study in an altered curriculum (e.g., more courses, fewer courses or different courses than the student's class would normally be taking) will be considered a special student. All F and D grades must be repeated.

Academic Probation

Any student whose GPA for any semester is below 2.0 (on a 4.0 scale) or whose cumulative MCG GPA is below 2.0 at the end of the semester will be on academic probation subject to the provisions of the following dismissal policies.

Academic Dismissal

A. Automatic academic dismissals

1. The following conditions will result in dismissal:
   a. A cumulative GPA below 1.2 at the end of the first semester;
   b. cumulative GPA below 1.6 at the end of the second semester;
   c. cumulative GPA below 2.0 at the end of the second, third and fourth semesters;
   d. Earning 5 semester hours of F during a single semester the first year or earning 12 semester hours of F during the first year of the curriculum
   e. Academic probation for two of five consecutive semesters;
   f. Two failures of a required course.

Students dismissed under the provisions of the automatic academic dismissal policy may appeal to the dean. The dean may uphold the dismissal or reinstate the student as a regular student, or a special student on an altered curriculum, or as a student on academic probation. The dean's decision is final for the School of Allied Health Sciences.

Any first-year student subject to dismissal under the provisions of the automatic dismissal policy may petition the Student Evaluation Committee to repeat the first year of the curriculum during the next regularly scheduled academic year. The Student Evaluation Committee will recommend to the DADS chairman whether the student should be allowed to repeat the first year. The chairman's recommendation will be communicated to the dean.

B. Other conditions for dismissal

1. Any student on academic probation may be considered by the Student Evaluation Committee for dismissal.

Students being considered for dismissal under the provisions of Section B.1., above, have the right to a hearing before the Student Evaluation Committee prior to a final recommendation. The dean may rescind, alter or uphold the recommendation. The dean's decision is final for the School of Allied Health Sciences.

Appeal of Dismissal

Any student may appeal a dismissal decision to the dean of the School of Allied Health Sciences. The dean's decision may be appealed to the president in accordance with MCG policy (see Student Handbook).

Readmission

Students dismissed from the Department of Associated Dental Sciences may apply for admission to the next regularly scheduled entering class by submitting the standard application for admission and following normal admissions procedures.

Graduation Requirements

Refer to the General Information section of this catalog.

Master of Health Education and Master of Science

The Department of Associated Dental Sciences offers educational programs at the graduate level to prepare dental hygienists for careers in dental hygiene education and administration. Upon completion of requirements, candidates are awarded the master of health education or the master of science degree. For details, refer to the School of Graduate Studies section.

Health Information Management

General

This department offers the bachelor of science degree in health information management. Graduates are eligible to write a national examination given by the American Health Information Management Association. Upon passing the appropriate exam, the bachelor of science graduate is awarded the credentials R.R.A. (Registered Record Administrator). The department also provides a master's degree program. For details refer to the School of Graduate Studies section of this catalog.

Accreditation

The health information management program is accredited by the Commission on the Accreditation of Allied Health Educational Programs (CAAHEP) in cooperation with the American Health Information Management Association's Council on Accreditation.

Application Procedures

Application materials may be obtained from the Office of Academic Admissions. An application fee of $25 is required.

Early application is strongly recommended but applications will be accepted until July 1 for classes beginning fall semester.

A personal interview on the MCG campus with faculty members is required.

Applicants will be notified of final action on their application by the Office of Academic Admissions after completion of all procedures and departmental review of application materials.

Financial Aid

Information on financial aid can be found in the General Information section of this catalog.

The American Health Information Management Association has limited funds for loans to senior students in this program. Additional sources of support would be scholarships from professional organizations and financial aid, in various forms, from local hospitals in need of personnel with special expertise in health information management. Information regarding these loans and scholarships may be secured from the Department of Health Information Management.

Academic Promotion and Graduation

Students must make a C or better in all professional courses to continue in the program.

Non-academic Exclusion

A student may be denied permission to continue enrollment if, in the opinion of the faculty, the student's knowledge, character, mental or physical fitness cast grave doubts upon his competence as a health care professional.

Bachelor of Science—Health Information Management

The health information manager is responsible for planning and managing the medical information devel-oped during the diagnosis, treatment and rehabilitation of patients in all types of health care settings.

The academic program includes study and experience in management techniques, medical terminology, medical science, systems analysis, computer applications and techniques related specifically to medical and health information management.

Objectives

To provide courses of study and experience which lead students to develop the following competencies:

1. Planning and developing medical and health record systems appropriate for varying sizes and types of health care facilities, organizations and agencies.
2. Managing clerical and technical personnel.
3. Space planning, budgetary control, selection of equipment and supplies.
4. Evaluating the effectiveness of departmental services.
5. Designing systems to assure the privacy and confidentiality of health information.
6. Developing systems for information retention and retrieval.
7. Collecting and analyzing patient-care data.
8. Providing administrative and clinical information for institutional management and the evaluation of patient care.
9. Assisting the development and coordination of programs to assess the quality of care and the utilization of services.
10. Developing in-service educational materials.
11. Participating in hospital and medical staff committee functions.

Opportunities

The health information manager is typically employed in a hospital as a departmental manager, having both clerical and technical employees under his/her direction. Current developments in the medical world are shifting the work environment to include extended-care facilities, governmental agencies, health insurance companies, ambulatory care and mental health facilities, health data organizations and information systems vendors.

Nationally there is a demand for health information managers. Every geographic region, including the southeastern United States, exhibits an overall shortage of health information managers. Because the average-sized hospital typically employs only two to three professional health information managers, the person defining his employment market narrowly cannot always exercise his first choice in a specific hospital or city.

Experienced health information professionals have readily available opportunities to advance to higher level management and consulting positions within the health care industry.

Admission Requirements

Applicants may attend any accredited college or university for the freshman and sophomore years; however, all MCG admission requirements must be met. Applicants must satisfy the U.S. and Georgia history and constitution requirements by course work or examination.

Specific Requirements for Health Information Management

1. A minimum grade point average of 2.5 on a 4.0 scale and a combined score of 750 on the original Scholastic Aptitude Test, or its equivalent ACT or SAT recentered score,are required. Students having a GPA or SAT score less than the required minimum who believe there are extenuating circumstances

which should be considered may submit a letter of appeal to the department chairman. This letter should be sent at the time the application is mailed.

2. An onsite interview, with two faculty members, which indicates a strong probability of successful completion of the program, is required of each candidate.
3. Candidates must have 90 quarter hours of transferable credit with an overall C average.
4. The 90 quarter hours must include the courses listed below. All students must complete the core curriculum prior to entering MCG.

Area of the Core	*Semester Hours*
A. Essential Skills	*9*
English Composition I	3
English Composition II (Literature based)	3
College algebra, mathematical modeling, trigonometry, pre-calculus or calculus	3
*B. Institutional Options**	*4-5*
Introduction to Computers	
Critical Thinking	
Creative Writing	
Ethics	
Health and Wellness	
Statistics	
Economics	
Speech	
Technical/Scientific Writing	
Any approved guided elective from Area F	
*C. Humanities and Fine Arts**	*6*
Ethics	
Fine and Applied Arts	
Foreign Language	
Speech, Oral communications	
World literature	
Philosophy	
Drama, Art or Music Appreciation	
Logic	
Electives in Humanities and Fine Arts	
D. Science, Mathematics and Technology	*10-11*
(1) One four-hour laboratory science course, one three-hour non-laboratory science course and an additional three-hour course in science, mathematics or technology or (2) two four-hour laboratory science courses and an additional three-hour course in science, mathematics or technology.	
*E. Social Sciences**	*12*
United States History	
United States Government	
Psychology	
Sociology	
Anthropology	
Group Process	
Human Development	
Social Problems	
Racial and Ethnic Minorities	
F. Courses Appropriate to the Major	*18*
Area F consists of 18 hours of lower-division (1000- and 2000-level) courses related to the program of study or prerequisite to courses required in the major.	
Anatomy and Physiology (Two-course sequence with lab, required)	8
Accounting (Required)	3
Management Information Systems/ Computer Application (with lab, including word processing and spreadsheets, required)	3-4
Guided approved electives: Basic computer science, accounting, management, biological or social sciences.	3-4

*If a student planning to transfer to MCG from another school in the University System of Georgia has completed this area with courses taken at that USG institution or at another institution from which MCG accepts transfer credit, MCG will accept the area as satisfied. A student planning to transfer from a school not in the University System of Georgia should choose courses from those listed.

Curriculum

The curriculum is four semesters long and includes practice in hospitals in addition to the lectures and laboratory experiences which take place on the MCG campus.

The curriculum which follows is representative of the course distribution. Because professional needs are changing with new developments in health care delivery, the curriculum is constantly under evaluation for revision. The departmental faculty reserves the right to make adjustments in the curriculum as necessary to assure the development of required competencies.

In addition, the curriculum is offered on a

part-time basis in the evening at DeKalb College South campus in the Atlanta area. The part-time curriculum is eight semesters long and includes practice in Atlanta area hospitals. Instruction in the part-time curriculum is transmitted using multi-media delivery systems, including the Georgia Statewide Academic and Medical System (GSAMS), a video conferencing network.

Junior Year

Fall Semester	*Credit Hours*
HIM 3101 Management Principles	4
HIM 3206 Introduction to Health Information Management	3
HIM 3207 Healthcare Statistics and Data Management	2
HIM 3208 Record Processing Practicum	1
HIM 3312 Medical Terminology	2
HIM 3516 Computer Fundamentals for Healthcare	4
Total	*16*

Spring Semester	*Credit Hours*
HIM 3102 Human Resource Management	4
HIM 3103 Managerial Practicum	1
HIM 3313 Pathophysiology	5
HIM 3414 Health Data Classification	3
HIM 3517 Introduction to Database Design and Health Information Systems	4
Total	*17*
First-Year Total	33

Senior Year

Fall Semester	*Credit Hours*
HIM 4104 Budget and Finance	2
HIM 4209 Legal Aspects and Ethics	3
HIM 4210 Quality Management	3
HIM 4415 Reimbursement and Case Mix Analysis	2
HIM 4518 Advanced Database Design and Health Information Systems Analysis	4
HIM 4620 Health Statistics for Research	3
Total	*17*

Spring Semester	*Credit Hours*
HIM 4105 Management Capstone	2
HIM 4211 Health Care Delivery Systems	4
HIM 4519 Systems Design Implementation	3
HIM 4621 Research Design Methodology	3
HIM 4722 Administrative Practicum	5
Total	*17*
Second-Year Total	34
Program Total	67

Estimated Additional Expenses Specific to Health Information Management

These figures are based on the normal experience of our students. In some cases, costs may be higher.

	Junior Year	*Senior Year*
Books and supplies	$ 850	$ 400
Professional insurance	15	15
Other (supplies, travel, graduation, etc.)	235	450
Post Graduation Registry Exam fee	—	175
Total	*$1,100*	*$1,040*

*During the spring quarter of the senior year, students leave the Augusta area for a six-week administrative affiliation. Living expenses and travel costs incurred during affiliation are the responsibility of the student. These costs vary according to location. (Matriculation and other fees and expenses are listed in the General Information section of this catalog.)

Medical Illustration

Medical illustrators are highly trained specialized artists who create visuals which communicate complex scientific ideas and make them understandable. Their work is seen in a variety of media including print publications, slides, computer graphics, TV and film, exhibits, three-dimensional models and prosthetic devices. Medical illustrators must not only be able to create extremely realistic drawings, but at times depict concepts and relationships that even the camera cannot see—thereby graphically clarifying information for the learner.

Because the medical illustrator relies on his understanding of anatomical and medical sub-

ject matter, he must have a love of art and science as well. The curriculum provides instruction in basic medical sciences, advanced art skills, visual problem-solving and production of instructional visuals for the major communication media.

The medical illustration program is under the School of Graduate Studies and offers a master of science degree in medical illustration. Please check the Graduate Studies section for detailed information and course descriptions.

Medical Technology

Medical technologists' primary responsibilities are to help diagnose and treat disease by reliable performance and interpretation of clinical laboratory tests. Their skills involve the complex analysis of blood or other patient specimens, problem identification and solution and confirmation of results. They also establish and monitor quality-control programs and may design and modify procedures.

Basic knowledge of test procedures for blood banking, chemistry, hematology, immunology and microbiology is required. Medical technologists also have administrative and educational duties. They must have the capability and resourcefulness to assume responsibility and accountability for accurate results and to supervise and educate others. In any case, the technologist must have a knowledge of both normal and disease states and recognize interdependency of tests to evaluate a patient's test results.

Numerous and varied opportunities for employment exist. Medical laboratories range from those that are large, highly complex, high-volume, automated and computerized to small, compact settings using a larger proportion of manual tests. Technologists also find work in industry, sales, consulting, research and education.

Objectives

The primary objectives of the Department of Medical Technology are to help students achieve entry-level competency in the profession, to provide appropriate educational experiences and to help meet the manpower needs for laboratory professionals.

A graduated educational experience allows the student to gain increasing confidence and competence in the variety of subjects which are to be mastered. Several curriculum options are available to students who are at different levels of experience or education. These are a two-year program that begins in the junior year (2+2 program), a program for certified laboratory technicians (MLT articulation) and a post-baccalaureate one-year program for science majors (4+1). Each of these options qualifies the graduate for national certification examinations. Curriculum content is continually reviewed and revised to reflect state-of-the-art technology and knowledge in the field.

Accreditation

The MCG curriculum in medical technology is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Admission Requirements

There are three types of admission requirements depending on the type of curriculum to be followed. Applicants may be: (1) freshman or sophomore college students applying for junior-year transfer into the 2+2 curriculum; (2) certified medical laboratory technicians for the one-year MLT articulation; (3) science majors with baccalaureate degrees for the one-year (4+1) bachelor's degree or certificate program.

Factors considered in selection of applicants in the first three categories above include academic achievement, SAT scores or other placement exam scores, recommendations and evaluation of a personal interview. The minimum acceptable math science grade point average depends on the program (see

following information). Preference will be given to applicants who have demonstrated superior ability in all academic areas. Faculty reserve the right to reject applicants who, based on supporting data, show questionable potential for the profession.

All bachelor's degree program applicants must satisfy the U.S. and Georgia history and constitution requirements by course work or examination. All science prerequisite courses must be acceptable toward a science major. Pass/fail courses, survey courses or courses with D or F grades will not be accepted as prerequisites. **A math, organic chemistry and microbiology course must have been taken within the last ten years.** Other requirements are:

1. 2+2 transfer applicants (deadline June 1): All bachelor's degree candidates must complete the core curriculum prior to entering MCG. The minimum acceptable math science grade point average is 2.5 (scale of 4.0).

Area of the Core (60 hours) *Semester Hours*

A. Essential Skills *9*
English Composition I 3
English Composition II 3
College algebra, mathematical modeling, trigonometry, pre-calculus or calculus 3

*B. Institutional Options** *4-5*
Introduction to Computers
Critical Thinking
Creative Writing
Ethics
Health and Wellness
Statistics
Economics
Speech
Technical/Scientific Writing
Any approved guided elective from Area F

*C. Humanities and Fine Arts** *6*
Ethics
Fine and Applied Arts
Foreign Language
Speech, Oral communications
World literature
Philosophy
Drama, Art or Music Appreciation
Logic
Electives in Humanities and Fine Arts

D. Science, Mathematics and Technology *10-11*
One eight-hour laboratory course sequence in chemistry and an additional course in science, mathematics or technology.

*E. Social Sciences** *12*
United States History
United States Government
Psychology
Sociology
Anthropology
Group Process
Human Development
Social Problems
Racial and Ethnic Minorities

*F. Courses Appropriate to the Major*** *18*
Area F consists of 18 hours of lower-division (1000- and 2000-level) courses related to the program of study or prerequisite to courses required in the major.
Anatomy and/or Physiology 4
Microbiology with Lab 4
Biology with Lab 4
Organic Chemistry 4
Guided Electives: Chemistry sequence with lab if not taken in Area D. Courses or additional hours from Area B or D to complete 18 hours.

*If a student planning to transfer to MCG from another school in the University System of Georgia has completed this area with courses taken at that USG institution or at another institution from which MCG accepts transfer credit, MCG will accept the area as satisfied. A student planning to transfer from a school not in the University System of Georgia should choose courses from those listed.

**If courses are taken in another area of the core, the hours would be available to be taken in guided electives.

2. Associate degree MLT or CLT articulation applicants (deadline March 1): Applicants must be certified by a nationally recog-

nized agency. Core prerequisites as listed above are the same as those for the 2+2 transfer students. Articulation students begin summer semester and complete the last three semesters of the senior year.

3. Post-baccalaureate one-year (4+1) applicants (deadline March 1): Applicants must have a degree in biology, chemistry, microbiology or a related science field. This must include 15 semester hours of biological science that include immunology and microbiology; 12 semester hours of chemistry that includes biochemistry; and three semester hours of mathematics. A math science grade point average of 2.75 is required. Other prerequisites depend upon whether the applicant chooses the certificate or baccalaureate degree option. Degree option candidates must meet all the core requirements as described above for the 2+2 applicants. 4+1 students begin summer semester and complete a three-semester senior year. This highly competitive program has limited space.

Application Procedures

Application forms with instructions may be obtained from the Office of Academic Admissions. Deadline for applications is March 1 for Summer and June 1 for Fall, but early application is encouraged for these competitive programs. Applications submitted after that date will be considered on a space-available basis.

Estimated Fees and Expenses Specific to Medical Technology

These figures are based upon the normal experience of our 2+2 transfer students. In some cases, costs may be higher.

	First Year	*Second Year*
Books and supplies*	$ 659	$ 82
Uniforms, lab coats**	48	48
Other (memberships, graduation, etc.)***	90	243
Total	$ 797	$373

*Matriculation and other fees are stated in the General Information section of this catalog.

**Lab coats are to be worn in the student laboratories at all times. During clinical internships, students dress according to the laboratory's dress code.

***Student membership in national and state professional organizations encouraged but not required.

Financial Aid

Refer to General Information section of this catalog.

Curriculum

Classroom and laboratory experiences are provided on the MCG campus. Clinical experiences are planned at hospitals throughout the state. Students obtain a broad base of experience in a variety of practical settings.

Two-year curriculum, 2+2 transfer students.

The two-year bachelor of science program covers the junior and senior years. The five-semester course of study begins fall semester.

Junior Year

Fall Semester		*Credit Hours*
MTCC 3240	Basic Professional Concepts	5
AHS 3620	Education	1
MTCC 3180	Venipuncture	1
BMB 3450	Biochemistry	3
HIM 3312	Medical Terminology	2
	Total	*12*

Spring Semester		*Credit Hours*
MTCC 3840	Clinical Hematology/ Fluid Analysis	2
MTCC 3640	Clinical Chemistry I	2
MTCC 3440	Clinical Microbiology I	2
MTCC 3200	Library Research	1
MTCC 3540	Immunology	4
MTCC 3280	Junior Clinical Practice	1
	Total	*12*
	First-Year Total	***24***

Senior Year

Summer Semester		*Credit Hours*
MTCC 4740	Immunohematology	6
MTCC 4420	Microbiology II (Lecture)	3
MTCC 4430	Microbiology II (Lab)	3
	Total	*12*

Fall Semester		*Credit Hours*
MTCC 4620	Clinical Chemistry II (Lecture)	3
MTCC 4630	Clinical Chemistry II (Lab)	3
MTCC 4840	Advanced Hematology	6
Begin Internship, choose from MTCC 4485 through 4885*. Begin management.		0
	Total	*12*

Spring Semester		*Credit Hours*
Complete first Internship (4485- 4885)		2
Choose remaining four from MTCC 4480-4880*		8
MTCC 4320	Laboratory Management	1
MTCC 4380	Management Project	1
	Total	*12*
	Second-Year Total	*36*
	Program Total	60

*MTCC 4480, 4485 Microbiology; MTCC 4580, 4585 Immunology; MTCC 4680, 4685 Chemistry; MTCC 4780, 4785 Blood Bank; MTCC 4880, 4885 Hematology

One-Year Curriculum, MLT Articulation and One-Year Post-Baccalaureate (4+1)

Certified clinical laboratory technicians who are accepted into the program will be awarded 30 semester hours of experiential credit and begin Summer semester, Senior year. Post baccalaureate 4+1 students also begin Summer semester. The curriculum is identical except that MLT ariticulation students may exempt Venipuncture practice if they can demonstrate competency. All one-year students must attend venipuncture theory lectures. For administrative purposes, MLT articulation students' courses are designated MTCM, 4+1 students' courses MTCP.

Senior Year

Summer Semester		*Credit Hours*
MTCM/P 4740	Immunohematology	6
MTCM/P 4420	Microbiology II (Lecture)	3
MTCM/P 4430	Microbiology II (Lab)	3
MTCM/P 4400	Microbiology Review	2
MTCM/P 4500	Immunology Review	2
Begin Venipuncture MTCM/P 4185		0
	Total	*16*

Fall Semester		*Credit Hours*
Complete Venipuncture MTCM/P 4185		1
AHS 3620	Principles of Education	1
MTCM/P 4600	Lab Math/QC	1
MTCM/P 4800	Basic Hematology/ Fluid Analysis	2
MTCM/P 4620	Clinical Chemistry II (Lecture)	3
MTCM/P 4630	Clinical Chemistry II (Lab)	3
MTCM/P 4840	Advanced Hematology	6
Begin Internship, choose from MTCM/P 4485 though 4885*. Begin management.		0
	Total	*17*

Spring Semester		*Credit Hours*
Complete first internship (4485-4885)		2
Choose remaining four from MTCM/P 4480-4880*		8
MTCM/P 4320	Laboratory Management	1
MTCM/P 4380	Management Project	1
	Total	*12*
	Senior Year Total	45

*MTCM/P 4480, 4485 Microbiology; MTCM/P 4580, 4585 Immunology; MTCM/P 4680, 4685 Chemistry; MTCM/P 4780, 4785 Blood Bank; MTCM/P 4880, 4885 Hematology.

Academic Promotion and Graduation

Refer to the General Information section for further policies and procedures concerning academic probation and academic suspension.

Promotion from one year to the next in the program depends on satisfactory completion of each year's work. Promotions are considered on the basis of recommendation by individual instructors or departmental evalua-

tions, and on the student's total record.

Students must earn a C or better in each course, unless otherwise indicated, to continue in the program.

The faculty determines the methods of evaluation, and evaluates each student individually in compliance with MCG and departmental guidelines. The student must pass a comprehensive examination in the senior year to graduate.

Master of Health Education and Master of Science

The Department of Medical Technology provides an educational program offering courses at the graduate level to prepare participants for careers in more highly skilled clinical practice, teaching, and administration. Upon completion of requirements, candidates are awarded the degree of master of health education or master of science. (For details refer to School of Graduate Studies section of this catalog.)

Flow Cytometry Certificate

Program Objectives

The primary objectives of the flow cytometry program are to prepare medical technologists to operate flow cytometers in general hospital laboratories, transplantation programs, genetics studies, cancer and HIV research, and industry. Graduates of the flow cytometry certificate program may look forward to advancement to administrative, management, and educational positions, depending upon capability and experience.

Program Description

Flow cytometry is a new health laboratory profession that uses instrumentation and data analysis for research and clinical applications. Flow cytometry instruments are used to detect cancer cells; perform compatibility testing for transplant screening; monitor AIDS patients; perform AIDS research; isolate chromosomes; and do a wide variety of genetic tests and cell marker classification. Flow cytometry operators are responsible for equipment calibration, operation and maintenance, sample preparation, data analysis and clinical interpretation.

Admission Requirements

Admissions decisions are based upon grade point average, personal interviews, recommendations and assessment of the applicant's motivation and personal qualities needed for successful completion of the program. In general, applicants should meet minimum GPAs, but work experience will also be considered. All applicants must hold a bachelor's degree in medical technology and have national certification in medical technology, either MT (ASCP) or CLS (NCA), or be eligible to take these exams. Work experience in immunology or hematology is desired but not required.

Application Procedures

Application forms may be obtained from the Office of Academic Admissions, Medical College of Georgia, Augusta, Georgia 30912. For the best chance of acceptance, application should be made by March 1. Earlier application is strongly advised.

Curriculum

Students are accepted for admission fall semester. Classroom and laboratory experiences are included to ensure the graduate is well-prepared to succeed as a flow cytometry operator. The graduate will receive a certificate of completion of the flow cytometry program.

Fall Quarter		*Credit Hours*
MTCF 4130	Introductory Flow Cytometry	2
MTCF 4160	Intro Flow Cytometry Lab	5
MTCF 4100	Lab Conference I	1
MTCF 4901	Directed Individual Study	4
	Total	*12*

Spring Semester		*Credit Hours*
MTCF 4140	Intermediate Flow Cytometry	1
MTCF 4170	Inter. Flow Cytometry Lab	5
MTCF 4110	Lab Confernce II	1
MTCF 4150	Advanced Flow Cytometry	1
MTCF 4180	Adv. Flow Cytometry Lab	5
MTCF 4120	Lab Conference III	1
	Total	*14*
	Program Total	26

Academic Standards

Refer to the General Information section of the catalog.

Certificate Requirements

The faculty of the flow cytometry program makes recommendations for awarding the certificate based on a student's ability to develop qualities considered essential for the profession

Occupational Therapy

General

Occupational therapy is a health profession which contributes to the physical and emotional independence and well-being of an individual through the use of selected activities. The focus of occupational therapy is meaningful involvement in problem-solving tasks and productive performance to promote and maintain health, evaluate behavior, diminish dysfunction and pathology, and enhance the capacity to function with satisfaction to self and others.

The frame of reference of occupational therapy is derived from the biological and behavioral sciences with particular emphasis on those aspects related to man's acquisition and integration of behavior necessary for self-care, productivity and social development.

Objectives

In agreement with the mission of the Medical College of Georgia, the Department of Occupational Therapy provides health education and training, participates in the generation and application of research, provides health-care services and collaborates with organizations which influence health care education and delivery.

Education

The Department of Occupational Therapy provides educational programs at the technical, professional and post-professional levels. The programs emphasize the value of the theory and application of purposeful activity and the concept of adaptation, appreciation of diversity, and development of the values and ethics of the profession.

The technical program prepares occupational therapy assistants to work in community and institutional settings which provide direct services to individuals with limitations in occupational performance. They are prepared to perform all tasks in the current entry-level role delineation of the American Occupational Therapy Association, with special emphasis on tasks preparing them to practice in Georgia.

The professional program prepares occupational therapists to practice as generalists in community and institutional settings. They can perform the services included in the current entry-level role delineation of the American Occupational Therapy Association. The department's philosophical approach to education and occupational therapy enables graduates to describe the theory and apply the techniques and skills of the profession in any environment; to interact with others in a manner which promotes collaboration, consultation, and cooperation; and to be self-directed in increasing their knowledge and skills to keep abreast of a dynamic profession. They are encouraged to maintain a critical attitude toward the theory and application of the knowledge of the profession and to participate in the development of this knowledge.

The post-professional programs emphasize the preparation of occupational therapists to assume the roles of educator, master clinician and researcher in academic or clinical settings. Students acquire knowledge of the theories of occupational therapy and those theories related to their interest area, and develop instruction and research skills.

The department also provides continuing education opportunities for therapists to maintain and update their knowledge of the profession needed for the roles of clinician, researcher and educator.

Research

The department is committed to generating and applying new knowledge of human occupation and education. It fosters an atmosphere supportive of collaborative research which uses a variety of research methods. Communication of knowledge regarding edu-

cation and the profession is facilitated through publications and presentations.

Service

The department faculty provides service to the community and to professional organizations. These services include providing direct or consultative services and active participation in local, state and national professional organizations. The goal of these services is to demonstrate the effectiveness of multiple approaches to identifying and resolving problems, as well as to demonstrate responsible action toward accommodating and influencing the changing systems of health-care delivery.

Opportunities

The registered occupational therapist works in neighborhood health centers, special schools, public health and other community agencies, nursing homes, general and special hospitals, clinics and rehabilitation centers as well as in private practice and in colleges and universities.

There is an acute shortage of registered occupational therapists. Positions at all levels are waiting to be filled and new positions are being created.

Occupational therapy assistants work in many of the same settings as occupational therapists, but employment opportunities are particularly prevalent in nursing homes, mental retardation and mental health facilities. Public school systems, rehabilitation centers and hospitals are also seeking occupational therapy assistants.

The need for qualified occupational therapy assistants exists throughout Georgia and the neighboring states.

Accreditation

The professional curriculum in occupational therapy at MCG is accredited by the Accreditation Council for Occupational Therapy Education, located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. The telephone number is 301/652-AOTA.

A bachelor of science degree is awarded upon successful completion of the curriculum including fulfillment of fieldwork requirements.

The associate of science degree program for the preparation of occupational therapy assistants is also accredited by the Accreditation Council for Occupational Therapy Education.

Graduates are recommended to sit for the national certification examinations administered by the National Board for Certification in Occupational Therapy, Inc., 800 S. Frederick Ave., Suite 200, Gaithersburg, MD 20877-4150.

Graduates are eligible to apply for licensure which is required in Georgia and other states.

Occupational Therapy Assistant Program*

*The Medical College of Georgia, pending Board of Regents' approval, plans to suspend the Occupational Therapy Assistant Program, beginning with academic year 1999-2000.

Admission Requirements

Applicants may attend any accredited college or university for the freshman year; however all requirements of the Medical College of Georgia must be met. To be considered for admission to the program the applicant must meet the minimum requirements of a 2.3 grade point average and a minimum score of 400 math and 400 verbal on the original Scholastic Aptitude Test or its equivalent on another standardized test or recentered SAT of 400 math, 480 verbal. **Preference is given to residents of Georgia and to those applicants with demonstrated superior academic ability.**

Prospective applicants are encouraged to contact the Office of Academic Admissions early in their academic careers to ensure completing the necessary prerequisites. It is strongly suggested that applicants obtain some knowledge of the field of occupational therapy through practical experience before applying. All students must complete the core curriculum below. Students are admitted to the program at the beginning of each fall semester.

Prerequisite Courses *30 semester hours*
English Composition I
English Composition II
Algebra or higher level math
Anatomy and Physiology sequence
History
American Government
General Psychology
Introductory Sociology
Electives: Basic Computer Science, Abnormal Psychology

A minimum grade point average of 2.3 in the prerequisite course of study is required. For further information contact the Department of Occupational Therapy or the Office of Academic Admissions.

CPR certification and completion of a first aid course are required prior to enrollment in the occupational therapy assistant program. Computer literacy is recommended for all students, particularly for word processing.

Application Procedures

Applications should be submitted between Jan. 1 and April 1 of the year of anticipated enrollment. Early application is recommended.

1. Application forms with instructions and "Tips for Prospective OT Students" may be obtained from the Office of Academic Admissions
2. Applications must be filed no later than April 1 of the year in which one is applying for admission. Application packet must be complete by May 1.
3. Applicants must have completed or submitted a plan to complete all prerequisites before initial enrollment.
4. A self-report of grades should be sent at the end of each quarter as completed.
5. A minimum grade of C (on a 4.0 system) must be made in each of the prerequisite courses. Class size is limited and not all applicants who meet minimum requirements may be selected. Selection of applicants begins in May of each year.
6. The Department of Occupational Therapy hosts an open house each summer for accepted students and select alternates. Attendance is recommended but not required.

Estimated Additional Expenses Specific to Occupational Therapy Assistant

These figures are based on the normal experience of our students. In some cases, costs may be higher. Travel expenses may be as much as $1,500 higher or more, depending on the number and location of clinical placements.

Books and supplies	$ 600
Uniforms	48
Professional liability insurance	15
Other (travel, graduation, etc.)	500
Total	*$ 1,163*

Curriculum

At MCG, occupational therapy assistant education involves a two-semester course of study after completion of one year of study at an accredited college or university of the student's choice. The MCG curriculum covers the sophomore year. Occupational therapy assistant classroom, laboratory and clinical experiences are included.

The entry-level occupational therapy assistant will be able to:

1. Perform and analyze daily living skills and activities related to self-care, work, play and leisure.
2. Help assess patient's/client's occupational performance capacities and limitations.
3. Help plan and provide occupational therapy services.
4. Plan and provide activities to improve functional performance, prevent disability and promote healthy environments in long-term care settings.
5. Provide activities to promote normal growth and development.
6. Teach patients/clients adapted methods for self-care, work and leisure activities so they can cope in the community.
7. Communicate and interact effectively with patients/clients, health care professionals and the community.
8. Participate in a supervisory relationship as indicated by the requirements of the setting.
9. Provide support services for the maintenance, routine management and evaluation of the occupational therapy department.

10. Demonstrate attitudes and behavior congruent with the values of the profession.

Fall Semester		*Credit Hours*
OTA 2250	OTA Practice	2
OTA 2370	Practice Skills for Psychosocial Dysfunction	4
OTA 2300	Developmental Tasks	4
OTA 2400	Treatment Methods (IP)	4
OTA 2350	Practice Skills for Physical Disabilities (IP)	
	Total	*14*

Spring Semester		*Credit Hours*
OTA 2350	Practice Skills for Physical Disabilities (IP)	4
OTA 2360	Practice Skills for Pediatrics	4
OTA 2400	Treatment Methods (IP)	
OTA 2500	Fieldwork Experience	8
or		
OTA 2510	Fieldwork Experience	4
OTA 2520	Fieldwork Experience	4
	Total	*16*

Occupational Therapist Program

Admission Requirements

Applicants may attend any accredited college or university for the freshman and sophomore years; however, all requirements of the Medical College must be met.

To be considered for admission to the program the applicant must meet the minimum requirements of a 2.5 overall grade point average, a 2.5 math/science grade point average and a minimum score of 400 math and 400 verbal on the original Scholastic Aptitude Test or its equivalent on another standardized test or recentered SAT. Admission is limited to residents of Georgia.

Prospective applicants are encouraged to contact the Office of Academic Admissions early in their academic careers to ensure completing the necessary prerequisites. It is strongly suggested that applicants obtain some knowledge of the field of occupational therapy through practical experience before applying. All students must complete the core curriculum below:

Areas of the Core

A. Essential Skills *9*
English Composition I 3
English Composition II 3
College algebra, mathematical modeling, trigonometry, pre-calculus or calculus 3

*B. Institutional Options** *4–5*
Introduction to Computers
Critical Thinking
Creative Writing
Ethics
Health and Wellness
Statistics
Economics
Speech
Technical/Scientific Writing
Any approved guided elective from Area F

*C. Humanities and Fine Arts** *6*
Ethics
Fine and Applied Arts
Foreign Language
Speech, Oral communications
World literature
Philosophy
Drama, Art or Music Appreciation
Logic
Electives in Humanities and Fine Arts

D. Science, Mathematics and Technology *10–11*
One eight-hour laboratory course sequence in either chemistry or physics and an additional course in science, mathematics or technology.

*E. Social Sciences** *12*
United States History
United States Government
Psychology
Sociology
Anthropology
Group Process
Human Development
Social Problems
Racial and Ethnic Minorities

F. Courses Appropriate to the Major *18*
Area F consists of 18 hours of lower-division (1000- and 2000-level) courses related to the program of study or prerequisite to courses required in the major.

Anatomy or Anatomy and Physiology (Required)	4
Chemistry and Physics with lab (one to be completed in Area D, required) **	4
Abnormal Psychology (Required)	3
Psychology (Required)**	3
Sociology (Required)**	3
Guided electives: Human Development, Communication, Group Process, Ethics, Fine or Manual Arts	1-7

*If a student planning to transfer to MCG from another school in the University System of Georgia has completed this area with courses taken at that USG institution or at another institution from which MCG accepts transfer credit, MCG will accept the area as satisfied. A student planning to transfer from a school not in the University System of Georgia should choose courses from those listed.

**If this is taken in another area of the core, the hours would be available to be taken in guided electives.

CPR certification and completion of a first-aid course are required prior to enrollment in the occupational therapy program. Computer literacy is expected of all students, particularly for word processing.

Interested applicants should contact the Office of Academic Admissions as early in their academic program as possible.

Application Procedures

Applications should be submitted before Dec. 1 of the year of anticipated enrollment. Early application is recommended.

1. Applications forms with instructions and "Tips for Prospective OT Students" may be obtained from the Office of Undergraduate Admissions.
2. Applications must be filed no later than Dec. 1 of the year in which one is applying for admission. Application packet must be complete by Jan. 5.
3. Applicants must have completed or submitted a plan to complete all prerequisites before initial enrollment.
4. A self-report of grades should be sent at the end of each quarter as completed.
5. A minimum grade of C (on a 4.0 system) must be made in each of the prerequisite courses. If course work is 10 years or olders, some math/science course work may need to be repeated. Class size is limited and not all applicants who meet minimum requirements may be selected. Selection of highly qualified applicants may begin as early as February of each year, but will not be completed until late March.
6. Departmental interviews are conducted by invitation only. Due to the large number of qualified applicants, not all applicants are invited to interview. Interviews will be scheduled in January.

Estimated Additional Expenses Specific to Occupational Therapy

Students accepted into the program must be prepared to travel throughout the southeastern United States to complete the fieldwork requirements during the senior (second) year of study. Some travel also will be required in the Central Savannah River Area during the junior (first) year. These figures are based upon the normal experience of our students. In some cases, costs can be $1,500 higher or more, depending on the senior year fieldwork sites. (Financial assistance for these additional expenses cannot be guaranteed although every effort will be made to assist students with major financial problems.)

	First (Junior) Year	*Second (Senior) Year*
Books and Supplies	$ 900	$ 600
Uniforms	48	48
Professional Liability Insurance	15	15
Instruments/Equipment	25	—
Other (fieldwork travel graduation, etc.)	600	1,500
Total	*$1,588*	*$ 2,163*

Curriculum

The occupational therapy curriculum is designed as a continuum of learning experiences organized to facilitate personal and professional growth of the student. It includes the opportunity for the student to select a

special fieldwork setting. The main objective of the program is to prepare the student as a generalist clinician.

The curriculum has three major components: human biology, the developmental process and interruptions to the process, and alternatives to dysfunction. The human biology component is the basic structure from which the student derives knowledge and understanding of the body and its systems. The human development component serves to identify those aspects of most concern to occupational therapy and as a vehicle for analysis of activities in which man engages at various ages and stages of life. Concurrently, disease and dysfunction in man are studied with the major emphasis on contemporary health problems and issues.

Laboratory, clinical, and community experiences are used extensively to provide active involvement of the student. Major emphases are on the social-cultural milieu of the community and examination of the development of the individual's capacities and roles in the family, school and community. The adaptation and modification of activities, design of adaptive equipment and devices, prosthetics and orthotics are included in laboratory and field experiences. A minimum of six months of full-time fieldwork experience is required.

The entry-level occupational therapist will be able to:

1. Demonstrate ability to assess an individual's function in relation to life space influence, including strengths and weaknesses related to occupational performance and performance components.
2. Provide occupational therapy services, including assessment, intervention, program planning and implementation and discharge planning.
3. Provide services to promote normal growth and development, prevent deficits, and maintain, restore or enhance function.
4. Initiate and participate in collaborative and cooperative interactions with others (including intra- and inter-disciplinary professionals, individuals, family members or care givers) to achieve desired goals in occupational therapy and health care.
5. Demonstrate the ability to manage and evaluate occupational therapy services including patient care, departmental operations, documentation and the supervision of COTA's aides, volunteers and students.
6. Demonstrate professional behavior which incorporates values and attitudes congruent with the current AOTA *Code of Ethics* and *Standards of Practice* of the profession.
7. Demonstrate beginning competencies in scientific inquiry, research methodology and scholarly writing which will contribute to the validation and development of occupational therapy theory and practice.
8. Demonstrate the ability to identify, approach and pursue issues in occupational therapy and health care which will contribute to the profession and to society.
9. Participate in the promotion of occupational therapy through professional organizations, government bodies and human service organizations.
10. Demonstrate ability to initiate and direct one's own personal and professional growth and to provide leadership in the profession.

Summer Semester		*Credit Hours*
ANM 3500	Musculoskeletal Anatomy	4
OCC 3100	Professional Foundations in Occupational Therapy	3
OCC 3150	Movement Analysis(IP)	3
OCC 3170	Activity Analysis	3
	Total	*13*

Fall Semester		*Credit Hours*
PHY 3110	Prinicples of Human Physiology	5
ITD 7003	Applied Neuroscience	3
OCC 3200	Clinical Reasoning	3
OCC 3150	Movement Analysis (IP)	
OCC 3270	Therapeutic Adaptation	3
	Total	*14*

Spring Semester		*Credit Hours*
OCC 4300	Development and Dysfunction of Child and Adolescent	3
OCC 4310	Mental Health Programming	4
OCC 4340	Adult Role Development	3
OCC 4370	Therapeutic Activity	3
AHS 3640	Intro to Statistics	1
AHS 3650	Intro Research Design	1
	Total	*15*

Summer Semester		*Credit Hours*
OCC 4400	Treatment Methods in Adult Dysfunction	4
OCC 4450	Clinical Conditions	3
OCC 4470	Practice Skills	3
OCC 4480	Occupational Therapy Research	2
	Total	*12*

Fall Semester		*Credit Hours*
OCC 4500	Advanced Clinical Reasoning	3
OCC 4700	Fieldwork Experience A	9
OCC 4580	OT Service Management (IP)	
	Total	*12*

Spring Semester		*Credit Hours*
OCC 4580	OT Service Management (IP)	2
OCC 4800	Fieldwork Experience B	9
	Elective Options (variable)	
	Total	*12*

Summer Semester		*Credit Hours*
OCC 4900	Elective Fieldwork	(variable)
	Program Total	**83**

Academic Promotion and Graduation

See the General Information section of this catalog for academic probation and suspension policies.

A student who earns less than a C in any course may be suspended. A student suspended for academic reasons may reapply following standard admission procedures.

Non-academic Exclusion

A student may be denied permission to continue enrollment in the Department of Occupational Therapy if, in the opinion of the faculty, the student's knowledge, character or mental or physical fitness casts grave doubts upon potential capacities as a student or practitioner in the field of occupational therapy.

Financial Aid

In addition to the sources of financial aid available to all MCG students, some sources are available specifically for students enrolled in occupational therapy curricula. For information on these sources contact: Chairman, Department of Occupational Therapy, Medical College of Georgia.

Master of Health Education

The Department of Occupational Therapy provides an educational program at the graduate level to prepare occupational therapists for careers as an academic or clinical educator and more highly skilled practitioner. The applicant must have at least one year of experience as a practicing occupational therapist and a minimum total score of 1000 on the Aptitude Test of the Graduate Record Examination. Upon completion of requirements candidates are awarded the degree of master of health education.

For details refer to School of Graduate Studies section of this catalog.

Master of Science

The Department of Occupational Therapy participates in the interdisciplinary Master of Science degree program for allied health professionals. This is a research degree program. For details refer to the School of Graduate Studies section of the catalog.

Physician Assistant

The physician assistant is a skilled professional qualified by academic and clinical training to provide medical and health-care services under the supervision of a licensed physician. In most settings physician assistants obtain medical histories, perform physical examinations, order and interpret laboratory and other diagnostic studies and assess and manage common illnesses. Disease prevention and health-promotion activities, counseling and patient education are other important services provided by physician assistants.

Practice options for the certified physician assistant are as varied as the many disciplines within the field of medicine. The Medical

College of Georgia physician assistant program offers a comprehensive (generalist) education which allows graduates to become employed in many specialty areas. Individually negotiated roles are determined by the needs of the medical practice and community, interests and training of the supervising physician and the physician assistant and state regulations.

Physician assistants in the state of Georgia practice under the provisions of the Physician Assistant Act, the Rules of the Composite State Board of Medical Examiners and an approved job description. Successful completion of the National Certifying Examination for Physician Assistants is required.

Accreditation

The Physician Assistant Program is fully accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

Admission Requirements Policy

Applicants may attend any accredited college or university for the freshman and sophomore years; however, all requirements of the Medical College of Georgia must be met. The physician assistant admissions committee selects those judged to have the greatest potential for success in the program and profession.

Consideration is given to the totality of all credentials including: (1) the demonstrated level and pattern of academic achievement, (2) SAT or ACT scores, (3) recommendations provided by individuals of the applicant's choosing, (4) assessment of the less tangible qualities of personality, maturity, knowledge of physician assistant profession and motivation. These latter qualifications are assessed by means of personal interview conducted by invitation only. Previous health-care experience is desirable but not required.

Academic Requirements

Consideration for admission is given to all applicants who can meet the following specific criteria by the time of enrollment:

1. A minimum combined score of 800 on the original Scholastic Aptitude Test (or comparable ACT scores or recentered SAT scores). This requirement is waived for candidates who hold a bachelor's degree.
2. A minimum cumulative overall undergraduate grade point average of 3.0 (4.0 scale) and a math/science GPA of 2.8 or better. Graduate work is not a prerequisite for our program and is not evaluated or considered in the application process.
3. Sixty semester hours of transferable credit from an accredited institution. All students must complete the core curriculum below prior to entering MCG.
4. Students for whom English is a second language must achieve a minimum score of 600 on the Test of English as a Foreign Language (TOEFL) and TSE-P or 50.

Area of the Core	*Semester Hours*
A. Essential Skills	***9***
English Composition I	3
English Composition II	3
College algebra, mathematical modeling, trigonometry, pre-calculus or calculus	3
B. Institutional Options*	***4–5***
Introduction to Computers	
Critical Thinking	
Creative Writing	
Ethics	
Health and Wellness	
Statistics	
Economics	
Speech	
Technical/Scientific Writing	
Any approved guided elective from Area F	
C. Humanities and Fine Arts*	***6***
Ethics	
Fine and Applied Arts	
Foreign Language	
Speech, Oral communications	
World literature	
Philosophy	
Drama, Art or Music Appreciation	
Logic	
Electives in Humanities and fine Arts	

D. Science, Mathematics and Technology *10-11*
One eight-hour laboratory course sequence in either chemistry or physics and an additional course in science, mathematics or technology.

*E. Social Sciences** *12*
United States History
United State government
Psychology
Sociology
Anthropology
Group Process
Human Development
Social Problems
Racial and Ethnic Minorities

F. Courses Appropriate to the Major *18*
Area F consists of 18 hours of lower-division (1000- and 2000-level) courses related to the program of study or prerequisite to courses required in the major.

Microbiology (Required)	4
General Chemistry two-course sequence with lab (Required)**	8
Organic Chemistry (Required)	4
Guided electives: Histology, Genetics, Embryology, Comparative Vertebrate Anatomy, Physics	2-10

*If a student planning to transfer to MCG from another school in the University System of Georgia has completed this area with courses taken at that USG institution or at another institution from which MCG accepts transfer credit, MCG will accept the area as satisfied. A student planning to transfer from a school not in the University System of Georgia should choose courses from those listed.

**If this is taken in another area of the core, the hours would be available to be taken in guided electives.

Technical Standards for Admission

Qualification for admission to, and graduation from, the Medical College of Georgia School of Allied Health Sciences requires satisfaction of the following technical standards:

1. Sufficient intellectual capacity to fulfill the curricular requirements of the various basic medical science and clinical courses.
2. Ability to effect multimodal communication with patients, colleagues, instructors and other members of the health care community. Ability to project a neat, well-groomed physical appearance. Computer literacy: demonstrate ability to use word processor spreadsheet and database programs.
3. The physical ability to learn and implement the various technical skills required by the faculty to facilitate preparation for the dependent practice of medicine and the provision of health care.
4. Sufficient emotional stability to withstand the stress, uncertainties and changing circumstances that characterize the dependent practice of medicine. Technical standards have been developed by the Physician Assistant Department for use in evaluation of prospective students. These standards are admissions guidelines and are subject to continuing revision and improvement.

Application Procedures

Information and application forms may be obtained from the Office of Academic Admissions, Medical College of Georgia, Augusta, GA 30912.

Applicants are encouraged to contact the Physician Assistant Department for information regarding the program and assistance in the application process.

The application deadline is Oct. 15. Applications or parts of applications received after this date will not be considered. Because applications are reviewed continuously beginning in the fall, early application is encouraged. Applicants who are not selected may reapply for future consideration. Preference is given to Georgia residents.

Personal interviews are required and will be scheduled by the Physician Assistant Department.

Estimated Additional Expenses Specific to the Physician Assistant Department

These figures are based on the normal experience of our students. In some cases, costs may be higher.

	First Year	*Second Year*
Books and supplies	$ 555	$ 194
Instruments	729	—
Uniforms	48	48
Other (travel, graduation, etc.)	175	243
Professional liability insurance	61	61
Certifying examination fee	—	410
Total	$1,568	$956

Financial Aid

See General Information section of this catalog.

Curriculum

The curriculum of the Department of Physician Assistant as presented below can be completed during 24 consecutive months. Due to the dynamic nature of the profession, required courses and clinical rotations may change. Curricular changes may result in additional requirements. Students are responsible for completion of all requirements deemed appropriate by the faculty. The program is conducted as a sequence of three phases; Phase I is the only period of training which is completed entirely on the MCG campus. (See Special Needs below)

Phase I consists of both basic science and clinically related didactic courses. It is provided during the fall and spring semesters of the first year. All courses are required and must be successfully completed prior to beginning Phase II.

Summer Semester		*Credit Hours*
ANM 3320	Systemic Anatomy	5
PAD 3080	Physical Diagnosis	4
PAD 3470	Medical Communication Skills and Terminology for PAs	1
	Elective	2
	Total	*12*

Fall Semester		*Credit Hours*
PAD 3280	Clinical Medicine I	9
PAD 3480	Psychosocial Issues	1
CMB 3110	Physiology	5
ITD 7003	Applied Neuroscience	3
	Total	*18*

Spring Semester		*Credit Hours*
PAD 3290	Clinical Medicine II	12
PAD 3490	Psychosocial Issues II	1
PHM 3010	Pharmacology	3
PAD 3430	Surgical and Acute Care	3
PAD 3990	Independent Study (optional)	
	Total	*19*

Summer Semester		*Credit Hours*
PAD 4040	Internal Medicine Rotation	6
PAD 4180	Surgery Rotation6	
PAD 4030	Family Practice Rotation	6
	Total	*18*

Fall Semester		*Credit Hours*
PAD 4200	Emergency Medicine Rotation	6
PAD 4050	Pediatrics Rotation	6
PAD 4070	Mental Health Rotation	6
	Total	*18*

Spring Semester		*Credit Hours*
PAD 4060	OB/GYN Rotation	6
PAD 4900	Independent Study (Optional)	-
PAD 4010	Preceptorship	6
	Total	*12*

Phase III is the final phase of training prior to graduation. It consists of a seven- to eight-week clinical preceptorship (PAD 401) during which the student is expected to integrate the knowledge, skills and experience gained during his/her formal training. The preceptorship site is selected by the student and is served during either the summer or fall quarter following completion of Phase II. The scheduling of the preceptorship is dependent on the number and duration of electives. It is ideal for this required experience to be completed in the practice with which the student anticipates employment immediately following graduation.

Academic Promotion and Graduation

Graduation and uninterrupted progress

through the curriculum requires that the student obtain a grade of C or higher in each required course. Continued enrollment may be denied for failure to successfully complete any required course at the time it is offered.

After successful completion of the program, the student is awarded a bachelor of science degree as a physician assistant and is eligible to sit for the National Certifying Examination offered by the National Commission on Certification of Physician's Assistants. Students and PA graduates with a bachelor of science degree will be eligible to apply to the School of Allied Health Sciences master of science program.

Special Needs

All students must be prepared to travel to facilities in Georgia and South Carolina during Phases II and III. Financial assistance for these additional expenses cannot be guaranteed.

Radiologic Sciences

General

Radiologic sciences is a comprehensive term that applies to the science of administering ionizing radiation and other forms of energy to provide technical information and assistance to the physician for the diagnosis and treatment of diseases and injuries. This field offers four specific career paths: radiography (X-ray), nuclear medicine technology, radiation therapy technology and diagnostic medical sonography. Most of these careers are among imaging modalities, producing film products of human anatomy and/or physiology. Computer tomography (CT) and magnetic resonance imaging (MRI) are among the newest imaging technologies in these radiologic sciences. Although they are closely related, each involves special instrumentation, techniques of application, safety practices and patient services.

The *radiographer* examines the patient for broken bones, ulcers, tumors, diseases or malfunctions of various organs by producing diagnostic images, ready for the physician's interpretation. In many instances, the radiographer works independently, while for some advanced procedures the radiologist and radiographer work together as a team. Responsibilities include: image production through positioning of patients and operation of clinical instrumentation, radiation safety, patient care, quality control and image manipulation and processing.

Employment opportunities are abundant and varied for qualified radiographers, including work in hospitals, physician's offices, public health projects, industrial medical clinics and industrial radiography.

The *nuclear medicine technologist* aids in the diagnostic process by producing images or dynamic studies of the function and structure of the patient's body organs through the use of radioactive pharmaceuticals. Responsibilities include: radiation safety, quality control, radiopharmaceutical preparation and administration, performance of clinical diagnostic studies, collection and preparation of biologic specimens, conduction of laboratory studies and operation of computers for data analysis.

Nuclear medicine technologists find numerous job opportunities in hospitals, outpatient clinics, cardiology clinics, public health institutions, research institutions and in the sales and installation of new equipment and products.

The *radiation therapist* is a professional with the knowledge and skills to accurately administer high-energy X-rays for therapeutic purposes. Responsibilities of the therapist may include: delivering a planned course of radiotherapy with minimum supervision, assurance of the safety of patients and other personnel, quality control, maintenance of treatment records and assisting with patient treatment planning.

Employment opportunities abound for the certified radiation therapist who is qualified to work in major cancer treatment centers, hospitals having high-energy radiation units for therapy and research facilities.

The *medical dosimetrist* designs and imple-

ments customized radiation therapy treatment plans for cancer patients under the care of a radiation oncologist. It is the dosimetrist's task to optimize the parameters of a patient's setup to achieve the best possible distribution of radiation dose for the eradication of the disease. Medical dosimetry students are certified radiation therapists receiving advanced classroom and clinical education.

The *diagnostic medical sonographer* provides the supervising physician (sonologist) with medical images and physiologic data by use of diagnostic sound waves. The sonographer applies a knowledge of human anatomy and patho-physiology to the production of images that are individualized to meet specific patient situations and needs.

Sonographer responsibilities include: image production through patient positioning and operation of clinical instrumentation, patient care, quality control, technical assistance with interventional procedures, image manipulation and processing and the preliminary interpretation of the ultrasound examination for the sonologist.

Increasing demand for sonographic services has provided sonographers with job opportunities in various service divisions of hospitals and medical clinics, physician's offices, public health institutions and research facilities.

Objectives

The Department of Radiologic Sciences offers education in the four modalities in a variety of formats that provide multiple career pathways for radiologic professionals.

Certificate curricula provide intense specialized education in nuclear medicine, diagnostic medical sonography or radiation therapy for select individuals with previous medical certification. Individuals with a baccalaureate degree, which includes credits in certain math/science requirements, may also be eligible to matriculate in programs leading to certification in nuclear medicine or sonography. Multi-competency technologists serve in expanded roles with such dual-service capabilities.

Baccalaureate curricula provide dynamic programs of advanced specialty education for certified technologists who seek the concepts and skills of the administrative, educational, technical or scientific professional. Selected study in these topics allows technologists to fill expanded roles within the system of radiologic service.

The faculty of the department strives to promote public awareness of the professions and to meet the needs of the professions and the community through education, research and service.

Accreditation

Programs offered through radiologic sciences are approved by the Board of Regents of the University System of Georgia and are accredited by the appropriate professional review committees, where applicable.

Admission Requirements

Entering class size is limited, so early application is advised. Applicants who meet minimum qualifications are scheduled for a personal interview. Factors considered in selection include academic record and achievement, knowledge of the career(s), SAT/ACT or placement exam scores where applicable, recommendations and evaluations from the personal interview.

The department has developed technical standards for the psychomotor capabilities required for each career area. Individuals will be evaluated according to the standards, which are available upon written request.

Specific admissions requirements and course prerequisites for individual programs can be obtained from the program director of the division for which application is sought.

Application Procedures

Application must be made though the Office of Academic Admissions. All programs begin with fall semester.

Estimated Fees and Expenses

Information regarding tuition and fees for

residents and non-residents is found in the General Information section of the catalog. Generally, uniforms are required as a one-time program expense; and annual fees such as professional dues, liability insurance and campus parking should be anticipated in addition to textbook expenses. Information on financial aid is in the General Information section of the catalog.

Academic Standards

Refer to the General Information section for institutional academic standards.

Students in all departmental programs must earn a grade of C or better in required major area courses to receive program credit. (Major area courses are 1) all professional courses, 2) math/science courses in the core area and 3) area IV courses in programs where applicable. Additionally, certain moral, ethical and behavioral standards are expected of students aspiring to careers in health science. The department therefore requires compliance with policies and procedures which govern conduct both as a student in the university and as a student in a professional program. These regulations are considered academic standards within the scope of clinical practicum courses in the curriculum. Specific policies and procedures are given to the student upon matriculation.

The student who receives a D or F in clinical practicum may be denied permission to continue in subsequent clinical practicum. The department promotions committee will review the student's performance and will make an appropriate recommendation.

Graduation Requirements

The General Information section contains institutional graduation requirements for all degree candidates. Each program has an identified curriculum which must be successfully completed, which includes a designated number of clinical experience hours, as well as competency assessments. Specific data is given to each student upon enrollment. Due to the dynamic nature of these technological services, periodic revision of curricula is performed. In the event necessary curricular/graduation requirement changes are applied to enrolled students, such changes will be made known to the students. It is then the responsibility of each student to meet the specified requirements. In such circumstances every effort will be made to minimize possible negative impact on a student's curricular plans, especially as pertains to anticipated time of program completion.

Baccalaureate Curricula

The Department of Radiologic Sciences offers a baccalaureate program with concentrations (majors) in radiography, nuclear medicine technology, radiation therapy technology and diagnostic medical sonography that provide education and experience for the expanded roles of technologists in specialized technology positions and in career advancement. A multicredential (double) major can be obtained by combining any two of the above majors. Radiation therapists may add a concentration in medical dosimetry to obtain a major. In all programs, the student is exposed to advanced science and instrumentation associated with the modality and advanced patient care and clinical roles. Courses in management, education, cross-sectional anatomy, statistics, research, computers and/or medical ethics expand the job performance capabilities and upward mobility potential of the baccalaureate technologist.

The curricular plans and entry pathways to the four programs vary to accommodate the most typical applicants to the programs. The 2 + 2 programs leading to professional certification are open to qualified college juniors who have completed 60 semester hours of transferable core courses at a regionally accredited college. See the program section(s) and/or contact the program director(s) for specific information. The baccalaureate degree is also designed to accommodate certified technologists in their respective modalities who wish to obtain post-certification bachelor's degrees.

The curriculum provides opportunity for study of a second discipline or to advance skills in the current discipline. The curricular

plan for each student depends on educational and professional background, and on selected options for professional development.

The Department offers the advanced level curriculum as a part-time evening curriculum on the MCG campus and via GSAMS at the Columbus State University Campus at Columbus, Georgia. See the Department for specific information.

Certificate Curricula

The Department offers certificates in three specific career paths: nuclear medicine technology, radiation therapy technology and diagnostic medical sonography. These 12-month curricula prepare the student for entry level certification in the field. Although certain college level competencies are required prior to entry, completion of the entire core curriculum is not required. See the Certificate Program section or contact the Department for specific information.

Master of Science

The Department offers the Master of Science with majors in the specific disciplines for individuals who are certified technologists in one of the radiologic sciences disciplines. Refer to the Graduate School section of the catalog or contact the Department for specific information.

Core Curriculum

All students must complete the following core curriculum before entering MCG.

Area of the Core	*Semester Hours*
A. Essential Skills	*9*
English Composition I	3
English Composition II	3
College algebra, mathematical modeling, trigonometry, pre-calculus or calculus	3
*B. Institutional Options**	*4-5*
Introduction to Computers	
Critical Thinking	
Creative Writing	
Ethics	
Health and Wellness	
Statistics	
Economics	
Speech	
Technical/Scientific Writing	
Any approved guided elective from Area F	
*C. Humanities and Fine Arts**	*6*
Ethics	
Fine and Applied Arts	
Foreign Language	
Speech, Oral communications	
World literature	
Philosophy	
Drama, Art or Music Appreciation	
Logic	
Electives in Humanities and fine Arts	
D. Science, Mathematics and Technology	*10-11*
One eight-hour laboratory course sequence in either chemistry or physics and an additional course in science, mathematics or technology.	
*E. Social Sciences**	*12*
United States History	
United States Government	
Psychology	
Sociology	
Anthropology	
Group Process	
Human Development	
Social Problems	
Racial and Ethnic Minorities	
F. Courses Appropriate to the Major	*18*
Area F consists of 18 hours of lower-division (1000- and 2000-level) courses related to the program of study or prerequisite to courses required in the major.	
Anatomy and Physiology with lab (Required)	
Statistics (Required)**	
Physical Science/Physics with lab (Required)**	
(Students who plan to major in Nuclear Medicine Technology and take physics in Area D are required to take 4 hours of inorganic chemistry in this area.)	
Pre-calculus (Required)**	
Guided electives: Math, Science, Computers, Business/Management, Education, Health	

Professions, Developmental Psychology, Speech.

Note: For multicredential technology track, where applicable, student must meet physics/chemistry requirements for both disciplines. Extra hours will be counted toward the major.

*If a student planning to transfer to MCG from another school in the University System of Georgia has completed this area with courses taken at that USG institution or at another institution from which MCG accepts transfer credit, MCG will accept the area as satisfied. A student planning to transfer from a school not in the University System of Georgia should choose courses from those listed.

**If this is taken in another area of the core, the hours would be available to be taken in guided electives.

Bachelor of Science with concentration in Nuclear Medicine Technology

Fall Semester		*Credit Hours*
NMT 3611	Principles of Nuclear Medicine I	4
PCS 3631	Physics of Diagnostic Imaging	4
RSC 3611	Introduction to Patient Care	2
NMT 3641	Clinical Internship	3
	Total	*13*

Spring Semester		*Credit Hours*
NMT 3612	Principles of Nuclear Medicine II	4
PCS 3632	Physics of Nuclear Medicine	4
NMT 3642	Clinical Internship	3
AHS 3610	Allied Health Ethics and Law	1
	Total	*12*

Summer Semester		*Credit Hours*
RSC 3633	Radiation Protection and Biology	3
NMT 3623	Clinical Correlation Seminar	1
RSC 3613	Professional-Patient Interactions	1
RSC 3602	PBL in Radiology Patient Management	1
NMT 3643	Clinical Internship	5
	Total	*11*

Fall Semester		*Credit Hours*
RSC 4602	Sectional Anatomy	2
RSC 4653	Statistical Methods and Research Design in Radiologic Sciences	3
PCS 4635	Advanced Physics of Nuclear Medicine	4
NMT 4641	Clinical Practicuum	2
NMT 4602	Independent Study/ Research (Elective)	3
or		
RTR 4633	MRI Principles & Instrumentation (Elective)	3
	Total	*14*

Spring Semester		*Credit Hours*
RSC 4610	Advanced Radiologic Patient Care	2
RSC 4621	Pathology for Radiologic Sciences	2
NMT 4623	Radiochemistry	4
NMT 4642	Clinical Practicuum	2
RSM 4632	Management of the Rad. Dept. (Elective)	2
or		
NMT 4602	Independent Study/ Research (Elective)	3
	or	
	Elective from AHS ID Courses	
	Total	*12-15*

Bachelor of Science with concentration in Radiation Therapy Technology

Fall Semester		*Credit Hours*
PCS 3631	Physics of Diagnostic Imaging	4
RSC 3611	Introduction to Patient Care	2
RTT 4601	Principles of Radiation Oncology	4
RTT 3641	Radiation Oncology Clinical Internship	4
	Total	*14*

Spring Semester		*Credit Hours*
RSC 4621	Pathology	2
AHS 3610	Allied Health Ethics and Law	1
RTT 4613	Quality Assurance for Radiation Oncology	2
RTT 3642	Radiation Oncology Clinical Internship	4
	Total	*9*

Summer Semester		*Credit Hours*
RSC 3633	Radiation Protection and Biology	3
RSC 3602	PBL in Radiology Patient Management	1
RTT 3543	Radiation Oncology Clinical Internship	6
	Total	*10*

Fall Semester		*Credit Hours*
RSC 4602	Sectional Anatomy	2
RSC 4653	Statistical Methods and Research Design in Radiologic Sciences	3
PCS 4631	Physics of Radiation Oncology	4
RTT 4640	Radiation Oncology Clinical Internship	4
	Total	*13*

Spring Semester		*Credit Hours*
RTT 4621	Cancer Management in Radiation Oncology	3
RTT 4614	Radiation Oncology Simulation Procedures	2
RTT 4632	Radiation Oncology Dosimetry	3
RTT 4615	Radiation Oncology Seminar	3
RTT 4642	Radiation Oncology Clinical Internship	4
	Total	*15*

Bachelor of Science with concentration in Medical Dosimetry (for certified radiation therapists only)

Fall Semester		*Credit Hours*
RTR 4635	Fundamentals of CT	3
RSC 4602	Sectional Anatomy	2
RSC 4653	Statistical Methods and Research Design in Radiologic Sciences	3
RTT 4644	Medical Dosimetry Clinical Internship	5
	Total	*13*

Spring Semester		*Credit Hours*
PCS 4636	Advanced Medical Dosimetry and Treatment Planning	3
RTT 4645	Medical Dosimetry Clinical Internship	6
	Total	*9*

Summer Semester		*Credit Hours*
RTT 4647	Medical Dosimetry Special Topics	3
RTT 4646	Medical Dosimetry Clinical Internship	6
	Total	*9*

Bachelor of Science with concentration in Diagnostic Medical Sonography

Fall Semester		*Credit Hours*
RSC 3611	Introduction to Patient Care	2
RSC 4602	Sectional Anatomy	2
DMS 3611	Sono. Applic. I: Abd/OB/GYN	3
DMS 3610	Sonographic Instrumentation	1
DMS 3641	Clinical Internship I	4
	Total	*12*

Spring Semester		*Credit Hours*
AHS 3610	Allied Health Ethics and Law	1
DMS 3612	Sono. Applic. II: Abd/OB/GYN	4
PCS 3650	Sonologic Physics	3
DMS 3642	Clinical Internship II	4
RSC 4621	Pathology for Radiologic Sciences	2
	Total	*14*

Summer Semester		*Credit Hours*
RSC 3602	PBL in Radiology Patient Management	1
RSC 3613	Professional-Patient Interaction	1
DMS 3613	Sono. Applic. III: Abd/OB/GYN	2
ANM 3320	Systemic Anatomy	5
DMS 3643	Clinical Internship III	4
	Total	*13*

Fall Semester		*Credit Hours*
RSC 4653	Statistical Methods and Research Design in Radiologic Sciences	3
AHS 3620	Principles of Education	1
DMS 4621	Sono. Applic. IV: Echo/Vasc.	2
DMS 4641	Clinical Internship IV	4
DMS 4620	Independent Study	3
	Total	*13*

Spring Semester		*Credit Hours*
RSM 4632	Management of Radiologic Department	2
AHS 3660	U.S. Health Care Delivery Systems	1
DMS 4622	Sono. Applic. V: Echo/Vasc.	5
DMS 4642	Clinical Internship V	4
RSC 4610	Advanced Radiologic Patient Care	2
	Total	*14*

Bachelor of Science with concentration in Radiologic Technology

Fall Semester		*Credit Hours*
PCS 3631	Physics of Diagnostic Imaging	4
RSC 3611	Introduction to Patient Care	2
RTR 3611	Radiographic Procedures I	6
RTR 3641	Clinical Internship	4
	Total	*16*

Spring Semester		*Credit Hours*
RTR 3621	Radiographic Technique I	3
RTR 3612	Radiographic Procedures II	4
RTR 3631	Radiologic Science	2
RTR 3642	Clinical Internship	4
	Total	*13*

Summer Semester		*Credit Hours*
RSC 3633	Radiation Protection and Biology	3
RSC 3602	PBL in Radiology Patient Management	1
RSC 3613	Professional-Patient Interaction	1
RTR 3622	Radiographic Technique II	2
RTR 3643	Clinical Internship	5
	Total	*12*

Fall Semester		*Credit Hours*
RSC 4602	Sectional Anatomy	2
RSC 4653	Statistical Methods and Research Design in Radiologic Sciences	3
RTR 4651	Seminar	1
RTR 4641	Clinical Internship	2
RTR 4631	Principles and Instru of CT	3
	and	
RTR 4661	CT Clinical Practicuum	3
	or	
RTR 4633	Principles and Instru of MRI	3
	and	
RTR 4663	MRI Clinical Practicuum	3
	or	
	Elective	
	Total	*14*

Spring Semester		*Credit Hours*
RSC 4610	Advanced Radiation Patient Care	2
RSC 4621	Pathology for Rad Sciences	2
RTR 4632	Principles and Instru of Mammo	3
	and	
RTR 4663	Mammo Clinical Practicuum	3
	or	
RTR 4661	CT Clinical Practicuum	3
	or	
	Elective	
	Total	*13*

Certificate Curricula

Certificate—Nuclear Medicine Technology

The 12-month curriculum in nuclear medicine technology is open to registered radiographers, registered medical technologists, registered nurses or suitably prepared persons with bachelor's degrees. Applicants should present credits in college algebra, physical science or physics, general chemistry and human anatomy and physiology. This program is designed for the technologist who primarily performs imaging procedures. Graduates are eligible to sit for the certification exams given by the American Registry of Radiologic Technologists and the Nuclear Medicine Technology Certification Board.

Curriculum

Fall Semester		*Credit Hours*
NMT 3611	Principles of Nuclear Medicine I	4
PCS 3631	Physics of Diagnostic Imaging	4
RSC 3611	Introduction to Patient Care	2
NMT 3641	Clinical Internship	3
	Total	*13*

Spring Semester		*Credit Hours*
NMT 3612	Principles of Nuclear Medicine II	4
PCS 3632	Physics of Nuclear Medicine	4

NMT 3642	Clinical Internship	3
AHS 3610	Allied Health Ethics and Law	1
	Total	*12*

Summer Semester		*Credit Hours*
RSC 3633	Radiation Protection and Biology	3
NMT 3623	Clinical Correlation Seminar	1
RSC 3613	Professional-Patient Interactions	1
RSC 3602	PBL in Radiology Patient Management	1
NMT 3643	Clinical Internship	5
	Total	*11*

Certificate—Radiation Therapy Technology

The 12-month curriculum in radiation therapy technology is open to certified radiologic technologists or, in limited circumstances, other suitably prepared health professionals. Graduates are eligible to sit for the certification examination offered by the American Registry of Radiologic Technologists.

Curriculum

Fall Semester		*Credit Hours*
RTT 4601	Principles of Radiation Oncology	4
RTT 4641	Radiation Oncology Clinical Internship	3
RSC 4602	Sectional Anatomy	2
RSC 4653	Statistical Methods and Research Design in Radiologic Sciences	3
PCS 4631	Physics of Radiation Oncology	4
	Total	*16*

Spring Semester		*Credit Hours*
RSC 4621	Pathology	2
AHS 3610	Allied Health Ethics and Law	1
RTT 4613	Quality Assurance for Radiation Oncology	2
RTT 4642	Radiation Oncology Clinical Internship	4
RTT 4621	Cancer Management in Radiation Oncology	3
RTT 4614	Radiation Oncology Simulation Procedures	2
	Total	*14*

Summer Semester		*Credit Hours*
RSC 3633	Radiation Protection and Biology	3
RTT 4615	Radiation Oncology Seminar	3
RTT 4643	Radiation Oncology Clinical Internship	6
	Total	*12*

Certificate—Diagnostic Medical Sonography

The 12-month curriculum is designed for those previously qualified in a clinically related health profession. It provides professionals with the educational requirements and clinical experience to sit for the ARDMS certification examination in physics/general medicine and the imaging specialties of abdomen and obstetrics/gynecology. Observation (eight to 16 hours) in a sonology lab prior to consideration for acceptance may be required.

Academic Requirements

Applicants for admission must have a high school diploma or equivalent and have qualification in a clinically related health profession, with a minimum of two years of education in an accredited educational program. Examples of such professions are radiography, nuclear medicine technology, medical technology, nursing, etc. Due to limited space for students, admission is highly competitive. Therefore, a composite of an applicant's academic record, references, motivation and a personal interview is the major criteria for admission.

Specific Academic Requirements

1. Applicants must have a minimum of 800 on the original Scholastic Aptitude Test, or comparable ACTs or recentered SAT scores. This requirement may be waived if the applicant has demonstrated an exceptional history of academic achievement.
2. Applicants must have completed college education in general anatomy and physiology (10 quarter hours), college English grammar and composition (10 quarter hours) and college algebra. Introductory physics and pre-calculus mathematics are

highly recommended.
3. A minimum grade point average, for all post-secondary course work, of 2.5 is required with a preferred math and science GPA of 3.0. Preference is given to those individuals with high scholastic abilities.
4. Certification in CPR is required before matriculation in the program.
5. Observation (eight to 16 hours) in a sonology lab may be required.

Curriculum

Fall Semester		*Credit Hours*
RSC 3611	Introduction to Patient Care	2
RSC 4602	Sectional Anatomy	2
DMS 3611	Sono. Applic. I: Abd/OB/GYN	3
DMS 3610	Sonographic Instrumentation	1
DMS 3641	Clinical Internship I	4
	Total	*12*

Spring Semester		*Credit Hours*
AHS 3610	Allied Health Ethics and Law	1
DMS 3612	Sono. Applic. II: Abd/OB/GYN	4
PCS 3650	Sonologic Physics	3
DMS 3642	Clinical Internship II	4
RSC 4621	Pathology for Radiologic Sciences	2
	Total	*14*

Spring Semester		*Credit Hours*
RSC 3602	PBL in Radiology Patient Management	1
RSC 3613	Professional-Patient Interaction	1
DMS 3613	Sono. Applic. III: Abd/OB/GYN	2
ANM 3320	Systemic Anatomy	5
DMS 3643	Clinical Internship III	4
	Total	*13*

Respiratory Therapy

Objectives

Respiratory therapy is an allied health specialty employed in the diagnosis, treatment and management of patients with cardiopulmonary disease.

This includes the therapeutic use of medical gases, air and oxygen-administering apparatus, environmental control systems, humidification and aerosols, drugs and medication, ventilatory assistance and ventilatory control, postural drainage, chest physiotherapy, breathing exercises, respiratory rehabilitation, air and ground transport, cardiopulmonary resuscitation and maintenance of natural and prosthetic airways and home care.

Specific techniques can be used in respiratory therapy to help diagnose, monitor, treat and research cardiopulmonary disease. These techniques include measurement of ventilatory volumes, pressures and flow rates and blood gas analyses.

Since respiratory therapy as a special health area is broadly defined and parallels closely to other professional areas, note that such therapy interrelates with patient care performed by nurses, physical therapists and physician assistants.

The promotion, planning and implementation of varied types of research for the benefit of the public and the patient, as well as the growth of the profession, is often performed by respiratory therapists.

Opportunities

The registered respiratory therapist (R.R.T.) works in hospitals, clinics, extended care facilities, physicians' offices, laboratories, home care, colleges and universities and pulmonary rehabilitation. Jobs also exist within commercial companies in sales and contract service. The registered therapist may work strictly as a clinician, or in other areas of management, education or research.

There is currently an acute shortage of registered therapists. These individuals assume the majority of critical respiratory care and have increased responsibility and salary.

Accreditation

The respiratory therapy programs are accredited by the Committee on Accreditation for Respiratory Care. This body

is sponsored by the American Association for Respiratory Care and the Committee on Allied Health Education and Accreditation.

Academic Promotion and Graduation

Refer to the General Information section of this catalog.

Final grades for academic courses and modules taught by the respiratory therapy faculty are given on an A, B, C, or F scale. The grade of D is not acceptable in any course taught by MCG faculty.

Students must meet the minimum level of proficiency established for each course or module. Minimal level of proficiency is set at 75 percent level of correct responses in written, oral and/or practical examination plus satisfactory completion of other course requirements. This applies to courses taught by the respiratory therapy faculty.

Satisfactory progress through the curriculum depends on satisfactory completion of each course/module at the time the course/module is offered.

Incomplete (I) may be given in any course or module under extenuating circumstances at the discretion of the instructor(s). These must be made up in accordance with MCG policy.

A students who earns a grade of F in any course or module is subject to dismissal from the program.

Admission Requirements

Bachelor of Science

Traditional Program

Applicants may apply to transfer to the Medical College of Georgia following completion of the required 60 semester hours of prerequisites with a C or better. The respiratory therapy program begins in the summer of each year; therefore, applicants are encouraged to apply during the year their 60 semester hours will be completed.

A minimum grade point average of 2.5 (C+) overall and a 2.5 (C+) in math and science is required for consideration for admission. All students must complete the core curriculum below prior to entering MCG.

Upon successful completion of the program, graduates are eligible to sit for the exam offered by the National Board for Respiratory Care for the registered respiratory therapy (RRT) credential.

Nontraditional Program

An accelerated bachelor of science degree program in respiratory therapy is available for certified respiratory therapy technicians (CRTTs) or registered respiratory therapist (RRTs). Graduates of an associate-degree program who wish to pursue a baccalaureate degree may apply for admission to the nontraditional bachelor-degree program. The program consists of general educational core (see below), residency, and professional core requirements. Selected applicants can pursue individualized tracks which emphasize management, education, or research, depending upon their area of interest.

All students must complete the core curriculum below prior to entering MCG.

Area of the Core	*Semester Hours*
A. Essential Skills	*9*
English Composition I	3
English Composition II	3
College algebra, mathematical modeling, trigonometry, pre-calculus or calculus	3
*B. Institutional Options**	*4–5*
Introduction to Computers	
Critical Thinking	
Creative Writing	
Ethics	
Health and Wellness	
Statistics	
Economics	
Speech	
Technical/Scientific Writing	
Any approved guided elective from Area F	
*C. Humanities and Fine Arts**	*6*
Ethics	
Fine and Applied Arts	
Foreign Language	
Speech, Oral communications	
World literature	
Philosophy	
Drama, Art or Music Appreciation	
Logic	

Electives in Humanities and fine Arts

D. Science, Mathematics and Technology *10–11*
One eight-hour laboratory course sequence in either chemistry or physics and an additional course in science, mathematics or technology.

*E. Social Sciences** *12*
United States History
United States Government
Psychology
Sociology
Anthropology
Group Process
Human Development
Social Problems
Racial and Ethnic Minorities

F. Courses Appropriate to the Major *18*
Area F consists of 18 hours of lower-division (1000- and 2000-level) courses related to the program of study or prerequisite to courses required in the major.

Anatomy and Physiology (Two-course sequence, required)	8
Microbiology (Required)	4
Physics** (Required)	3
Statistics** (Required)	3

Guided electives: Chemistry, Psychology, Biology, Research Methods

*If a student planning to transfer to MCG from another school in the University System of Georgia has completed this area with courses taken at that USG institution or at another institution from which MCG accepts transfer credit, MCG will accept the area as satisfied. A student planning to transfer from a school not in the University System of Georgia should choose courses from those listed.

**If this course is taken in another area of the core, the remaining hours in Area F would be taken from the guided electives.

Application Procedures

Application forms may be obtained from the Office of Academic Admissions, Medical College of Georgia, Augusta, GA 30912. Applicants are responsible for gathering necessary information to complete the application. A personal interview is required and should be scheduled after the initial application and transcript have been filed.

Estimated Expenses Specific to Respiratory Therapy

These figures are based upon the normal experience of our students. In some cases, costs may be higher, especially for travel.

Bachelor's degree students	*Junior*	*Senior*
Books/supplies	$ 500	$ 225
Instruments	25–100	0
Uniforms	130	60
Affiliation/Field Trips	0–up to 1,000	
Professional liability insurance	15	15
Comprehensive exams	—	appx. 200

Financial Aid

In addition to the sources of financial aid available to all MCG students, there are some sources available specifically for students enrolled in a respiratory therapy curriculum. For information on these sources contact: Department of Respiratory Therapy, Medical College of Georgia.

Special Needs

Students accepted must be prepared to travel to facilities throughout the southeastern United States to complete clinical practice requirements in the senior year. Travel may also be required to facilities in Georgia and South Carolina during the junior year. Financial assistance for these additional expenses cannot be guaranteed, although every effort is made to assist students with major financial problems.

Curriculum

The respiratory therapy curriculum involves a two-year (six-semester) course of

study. Upon successful completion of the curriculum, the graduate is eligible to sit for the National Registration Exam offered by the National Board for Respiratory Care.

The respiratory therapy curriculum is designed as a continuum of learning experiences organized to promote the personal and professional growth of the student. The main objective of the program is to prepare the student to function as a clinician. However, the diversity of the profession warrants exposure of the student to education, research methodology and management practices.

The curriculum is divided into three components: the basic sciences, professional didactic concepts and methodology and practical clinical experiences.

The basic sciences include human anatomy, physiology, medical terminology, pharmacology and a study of diseases of the heart and lungs.

The professional course work is a structured study of the principles and practices of respiratory care. The course of study progresses to instruction in advanced techniques used to detect and treat respiratory disorders.

The clinical practicum portion of the curriculum consists of the actual application of the various techniques used to evaluate and treat the patient. The relationship of the therapist to the patient and other health-care workers is also stressed.

During the fall semester of the senior year of the bachelor's-degree program, opportunities exist to study the principles of management, education and research. The last semester of the senior year offers the chance for additional clinical experience in any area in the profession of special interest to the student.

Bachelor's Degree

Summer Semester		*Credit Hours*
ANM 3320	Systemic Anatomy	5
RTH 3101	Essentials of Respiratory Care I	4
RTH 3199	Medical Terminology	1
	Total	*10*

Fall Semester		*Credit Hours*
PHY 3110	Principles of Human Physiology	6
RTH 3202	Essentials of Respiratory Care II	5
RTH 3203	Essentials of Respiratory Care II Lab	2
	Total	*13*

Spring Semester		*Credit Hours*
RT 340GS	Respiratory Care Pharmacology	3
RTH 3320	Clinical I	2
RTH 3310	Cardiopulmonary Pathophysiology	5
RTH 3209	Pulmonary Rehabilitation	3
	Total	*13*

Summer Semester		*Credit Hours*
RTH 4412	Clinical Presentations	3
RTH 4407	Management of the Mechanical Ventilator Patient	3
RTH 4410	Advanced Respiratory Care	3
RTH 4417	Newborn and Pediatric Respiratory Care	3
	Total	*12*

Fall Semester		*Credit Hours*
RTH 4521	Clinical 2	5
AHS 3610	Ethics for Health Professionals	1
RTH 4515	Adv. Ventilator Mgmt. and Pulmonary Diagnostics	4
AHS 3640	Introduction to Statistics (Elective)	1
AHS 3650	Introduction to Research Design (Elective)	1
	Total	*10–12*

Spring Semester		*Credit Hours*
RTH 4622	Clinical 3	2
RTH 4650	Respiratory Care Seminar	1
AHS 3660	The U. S. Health Care Delivery System	1
RTH 4623	Clinical 4	5
RTH 4303	Independent Study (Elective)	3
	Total	*9–12*

Academic Standards

Refer to the General Information section of this catalog. The Department of Respiratory Therapy reserves the right to place a student on departmental probation and to deny permission to continue enrollment in the Department of Respiratory Therapy if, in the opinion of the faculty, the student's knowledge, clinical performance, character or

mental or physical fitness cast grave doubts upon his potential capacities as a respiratory therapist.

Graduation Requirements

The General Information section contains requirements for graduation. The faculty of the Department of Respiratory Therapy make recommendations for graduation based on a student's ability to develop qualities considered essential for the profession. In addition, the student must pass comprehensive written examinations.

Course Descriptions

Note: Course hours are designated as lecture-lab-clinic-credit hours, e.g. (3-2-1-4)

AHS 3610. Ethics for Health Professionals(3-0-0-1)
Prevailing philosophies, basic ethical principles and legal issues common to allied health professionals. Clinical application of ethical theory and ethico-legal decision-making emphasized. Each department provides profession-specific content for discussion and application.

AHS 3620. Principles of Education (3-0-0-1)
Introduces basic principles of educational design with application to patient education, staff development, continuing education and clinical education.

AHS 3630. Principles of Management (3-0-0-1)
Introduces management, focusing on basic principles and concepts applicable to all types of organizations. Course is structured as applied study of managerial functions of planning, organizing, leading and controlling.

AHS 3640. Introduction to Statistics (3-0-0-1)
Introduction to basic statistics. Knowledge of computer science reinforced by processing statistical data.

AHS 3650. Introduction to Research Design (3-0-0-1)
Introduction to fundamentals of research design.

AHS 3660. The U.S. Health Care Delivery System (3-0-0-1)
Covers organization and structure of health care industry and health care facilities comprising the industry. Health care delivery systems in ambulatory care, home health and long-term care are rapidly increasing in addition to the increasing demand for allied health professionals. The health care delivery systems in the 21st century will be faced with increased regulations and standards, with focus on cost containment, accessibility and quality.

AHS 3670. Elementary Health Care Statistics (2-0-0-2)
Introduction to descriptive statistics and inferential statistical analysis techniques for health care-related data, including parametric and some non-parametric methods.

AHS 3680. Basic Research Methodology (3-1-0-3)
Introduction to research methodology and scientific methods in a health care-related context. Students plan and write a research proposal and critique health-related research literature.

AHS 4451. Child Life Clinic (0-27-0-9)
Covers children's and families' responses to illness and hospitalization, injury, stress and coping, therapeutic and medical play, activity planning/coordination/implementation, psychological preparation for health care experiences and associated coping processes, parental interactions and children's understanding of illness/death.

AHS 4452. Child Life Clinic Intern (0-26-0-13)
Offers students an independent Child Life specialist role with an in-depth understanding and practice of skills covered in Child Life Clinic. Documentation and advanced assessment skills utilized.

The following course is taught in cooperation with the School of Graduate Studies.

ITD 7003. Applied Neuroscience (2-2-0-3)
Introduction to the physiology and anatomy of the human nervouse system incorporating problem-based applications to clinical neurology.

Associated Dental Sciences

ANMD 3140. Oral Anatomy and Physiology (6-0-0-4)
Prerequisite: Admission to the program.
Gross anatomy of head and neck, microcirculation of oral tissues, embryological development of orofacial complex, homeostatic functions of organ systems and those alterations which affect dental treatment.

BCM 3130. Biochemistry (3-0-0-3)
Prerequisite: Admission to program.
Chemistry of living cells with correlations between biochemistry, nutrition, and dental clinical sciences

DHY 3100. Clinic I (1-0-11-4)
Prerequisite: Admission to program.
Delivery of optimum patient care by dental hygienists. Emphasizes infection control, techniques of instrumentation, clinical policies and professional development.

DHY 3110. Dental Hygiene Theory and Practice I (2-0-0-3)
Prerequisite: Admission to program.
Concepts, principles, and skills essential for rendering comprehensive oral health care. Emphasizes infection control, patient assessment, and preventive therapy.

DHY 3120. Dental Anatomy (1-2-0-2)
Prerequisite: Admission to program.
Primary and permanent dentitions, including root morphology, tooth function, anomalies and comparative dental anatomy and their relationship to treatment.

DHY 3200. Clinic II (1-0-7-4)
Prerequisite: DHY 3100 and DHY 3110.
Delivery of comprehensive patient care.

DHY 3210. Dental Hygiene Theory and Practice II (3-0-0-3)
Prerequisite: DHY 3100 and DHY 3110.
Essentials needed to provide comprehensive care to a diverse population, emphasizing medically compromised patients and possible treatment modifications.

DHY 3240. Dental Health and Wellness (1-1-0-1)
Prerequisite: Concurrent with DHY 3200 AND DHY 3210.
Wellness and the hygienist's role promoting health. Emphasizes communication styles and techniques critical in treating, educating and communicating with a diverse population.

DHY 4300. Patient Care I (0-0-12-3)
Prerequisite: DHY 3200 and DHY 3210
Opportunity to strengthen basic clinical skills in treating and preventing oral disease.

DHY 4310 . Dental Hygiene Seminar I (2-4-0-2)
Prerequisite: DHY 3210
Patient and practice management, treatment planning and techniques to treat and prevent oral disease.

DHY 4320. Research Design and Critical Thinking (2-4-0-2)
Prerequisite: AHS (Intro to Statistics) and AHS (Intro to Research Methods)
Research methods and changing issues and trends in dental hygiene.

DHY 4400. Patient Care II (0-0-8-4)
Prerequisite: DHY 4300 and DHY 4310.
Opportunity to expand knowledge and technique necessary to treat and prevent oral disease.

DHY 4410. Dental Hygiene Seminar II (2-1-0-2)
Prerequisite: DHY 4300 and DHY 4310
Aspects of patient and practice management, treatment planning, advanced assessment and providing optimum treatment within the scope of dental hygiene care.

DHY 4420. Dental Materials (1-2-0-2)
Prerequisite: DHY 4310
Scientific principles and manipulation of dental materials.

DHY 4440. Community Health (1-1-0-2)
Prerequisite: DHY 3240 AND AHS (U.S. Health Care)
History, philosophy and organization of public health and its relationship to dentistry.

DHY 4450. Dental Specialty Clinic II (0-0-2-1)
Prerequisite: DHY 4300 AND DHY 4310
Opportunity to observe, assist and provide dental hygiene care for patients in specialty clinics.

DHY 4500. Patient Care III (0-0-8-3-4)
Prerequisite: DHY 4400 and DHY 4410
Clinical experience and practical application of dental hygiene skills.

DHY 4510. Dental Hygiene Seminar III (2-0-0-2)
Prerequisite: DHY 4410 and DHY 4400
Current clinical concepts and practice information related to dental hygiene patient care.

DHY 4530. Externship (0-0-40-2)
Prerequisite: Permission of Department Chairman
Dental hygiene students interact with and receive guidance from practicing licensed dentists in an office setting.

DHY 4540. Practice Administration (2-0-0-2)
Prerequisite: DHY 4400 AND DHY 4410
Business and operational aspects of dental practice emphasizing ethical and legal issues.

DHY 4550. Dental Specialty Clinic II (0-2-0-1)
Prerequisite: DHY 4450
Expanded opportunities to observe, assist and provide care to patients in specialty clinics.

DHY 4610. Fundamentals of Dental Hygiene Education (2-2-0-3)
Prerequisite: Permission of the Department Chairman.
Overview of educational process including objectives, lesson plans, methodology and evaluation.

DHY 4620. Clinical Dental Hygiene Education I (2-8-0-6)
Prerequisite: Permission of Department Chairman.
Critical components of clinical dental hygiene instruction (task analysis, teaching modalities and learning styles) are discussed, observed and evaluated.

DHY 4630. Advanced Community Health (1-2-0-2)
Prerequisite: Permission of Department Chairman.
History, philosophy and organization of public health emphasizing epidemiology, sociological determinants and dental relevance.

DHY 4640. Dental Literature Evaluation (1-2-0-2)
Prerequisite: Permission of Department Chairman

Introduction to scientific writing culminating in the preparation of a manuscript of publishable quality.

DHY 4710. Dental Hygiene Education: Principles and Practice (1-4-0-3)
Prerequisite: DHY 4610
Practical, supervised teaching experience in classroom and/or laboratory.

DHY 4720. Clinical Dental Hygiene Education II (2-0-8-6)
Prerequisite: DHY 4620
Supervised dental hygiene education experiences with discussion and analysis of clinical instruction.

DHY 4750. Dental Hygiene Seminar: Current Concepts and Technology (2-0-0-2)
Prerequisite: Permission of Department Chairman.
Focuses on current philosophies, techniques and equipment impacting dental hygiene.

DHY 4900. Independent Study (0-0-0-1-4)
Prerequisite: Permission of Department Chairman
Opportunity to systematically investigate a topic of interest in dental hygiene or a related discipline.

DHY 4910. Studies in Patient Management (0-0-1-4)
Prerequisite: Permission of Department Chairman.
In-depth review of current patient management recommendations and rationale for special-needs populations.

DHY 4930. Independent Study: Community Health (0-0-1-5)
Prerequisite: DHY 4630
Health delivery systems emphasizing dental public health leadership and community education

MIBD 3230. Dental Microbiology (2-0-0-2)
Prerequisite: DHY 3130 and DHY 3140
Pathogenesis of bacteria, fungi and viruses; infectious disease process; and oral and systemic diseases.

OBI 3133. Nutrition (4-0-0-2)
Prerequisite: DHY 3130.
Scientific basis of present nutrition recommendations for normal, healthy adults with application to dental patients.

OMD 4520. Oral Medicine Dental Hygiene (2-0-0-2)
Prerequisite: DHY 3210 AND PHM 4430.
Common systemic diseases, major complications of systemic disease and their effect on providing oral health care.

PATH 4330. Pathology (6-0-0-3)
Prerequisite: DHY 3140 AND PER 3260.
Principles and mechanisms of disease emphasizing clinical aspects of oral disease.

PER 3260. Periodontics (1-0-0-1)
Prerequisite: DHY 3120 AND DHY 3140.
Periodontal anatomy, classifications of gingival and periodontal diseases, clinical assessment and treatment of various periodontal conditions.

PER 4570. Periodontal Seminar (2-0-0-2)
Prerequisite: PER 3260.
Clinical examples of periodontal disease and conservative treatment discussions with reviews of current literature on various topics.

PHM 4430. Pharmacology (3-0-0-3)
Prerequisite: DHY 3130, DHY 3200, AND DHY 4300.
Drugs to treat diseases and disorders emphasizing those used in dentistry.

RADD 3290. Dental Radiology (2-1-0-2)
Prerequisite: Concurrent with DHY 3200 and DHY 3210.
Introduces radiation physics, biology and hygiene. Radiographic techniques, film processing, darkroom maintenance, error recognition and basic interpretation presented.

RADD 4490. Radiology Technique I (0-2-0-1)
Prerequisite: RADD 3290.
Experiences in basic dental intraoral radiographic technique, error recognition/correction and interpretation.

RADD 4590. Radiology Technique II (0-0-2-1)
Prerequisite: RADD 4490.
Advanced experiences in radiographic technique, error recognition/correction and interpretation.

Health Information Management

HIM 3101. Management Principles (3-2-0-4)
Prerequisite: Admission to program.
Applied study of the managerial functions of planning, organizing, leading and controlling. Students work through specific issues related to operational and strategic planning, organizational structures and relationships, motivation, leadership theories and application, fiscal and non-fiscal control processes, work standards, work measurement and productivity. Emphasizes systems management and techniques of systems analysis. Includes office ergonomics, information management and equipment procurement.

HIM 3102. Human Resource Management(3-2-0-4)
Prerequisite: HIM 3101
Comprehensive human resource management course covering employer-employee relationship. Includes major human resource management functions. Topics include job analysis, job descriptions, employee recruitment, selection and training; salary administration, performance appraisals and collective bargaining; related laws and regulations.

HIM 3103. Managerial Practicum (0-6-0-1)
Prerequisite: HIM 3101, HIM 3208
Students work in designated health record department to complete assigned management projects related to basic functions of a health record department.

HIM 3206. Introduction to Health Information Management (2-2-0-3)
Prerequisite: Admission to program.
Principles of gathering, manipulating, classifying, storing and retrieving health data.

HIM 3207. Health Care Statistics and Data Management (2-0-0-2)
Prerequisite: Admission to program.
Methods to transform health data into information. Fundamental procedures in collecting, summarizing, analyzing, presenting and interpreting data . Includes acceptable terminology, definitions and formulas necessary to compute common health care statistical reports.

HIM 3208. Record Processing Practicum (0-6-0-1)
Prerequisite: Admission to program.
Structured environment to gain practical experience in designated health record departments. Supports technical and conceptual skill development by enabling students to observe and perform functions common to health record departments.

HIM 3312. Medical Terminology (2-0-0-2)
Prerequisite: Anatomy and Physiology
Introduction to language used in health care. Emphasizes word components (combining forms, prefixes and suffixes), pronunciation and writing exercises.

HIM 3313. Pathophysiology (4-2-0-5)
Prerequisite: Anatomy and Physiology, HIM 3312.
Introduces study of disease, abnormal body functions and pharmocological aspects in treating disease. Contemporary views of how the human body functions on a cellular level in relation to the whole individual discussed. Student develops a working understanding of concepts of diagnostic and treatment methods and an appreciation for the roles of health care professionals who provide direct patient care.

HIM 3414. Health Data Classification (2-2-0-3)
Prerequisite: HIM 3206, HIM 3207
ICD-9-CM and CPT coding. ICD-9-CM coding is used for vital statistics reporting, third-party reimbursement systems including Medicare, and is a statistical classification system. Diagnosis Related Groups (DRGs) and their relationship to ICD-9-CM discussed. Includes ICD-9-CM, CPT and HCPCS coding.

HIM 3516. Computer Fundamentals for Health Care (3-2-0-4)
Prerequisite: Admission to program.
Introduces computer concepts of hardware, software, networks and communication, the Internet and uses of computers in health care. Students demonstrate proficiency in word processing, spreadsheet, graphics application software and the Internet through lab exercises and assignments.

HIM 3517. Introduction to Database Design and Health Information Systems (3-2-0-4)
Prerequisite: HIM 3516
Introduces databases and allows students to demonstrate proficiency through hands-on database design. Introduces health information systems including history of systems, the system life cycle and current applications and trends in health care. Components of computerized patient record discussed and reinforced through research.

HIM 4104. Budget and Finance (1-2-0-2)
Prerequisite: Principles of Accounting I.
Basic hospital financial principles and tools. Fundamentals of hospital financial decision-making and the budgeting process.

HIM 4105. Management Capstone (0-4-0-2)
Prerequisite: HIM 3101, HIM 3102
Applications course guiding students through independent and group activities designed to reinforce management skills developed in prerequisite courses. Emphasizes leadership skills and creative problem-solving in a health care setting.

HIM 4209. Legal Aspects and Ethics (3-0-0-3)
Prerequisite: HIM 3206
Overview of the law and its administration as it applies to questions of policy and procedure development for health data requirements in a health care setting. Includes basic ethical principles and situations of ethical dilemma, and ethical decision-making processes.

HIM 4210. Quality Management (2-2-0-3)
Prerequisite: HIM 3206, HIM 3207, HIM 3313, HIM 3414, HIM 4209 (co-requisite).
Introduces concepts in quality management. Includes total quality management, continuous quality improvement, utilization and risk management and accrediting functions.

HIM 4211. Health Care Delivery Systems (2-0-0-2)
Prerequisite: HIM 3206, HIM 3207, HIM 4209
Familiarizes student with non-traditional health care settings to develop knowledge and skills necessary to help develop and evaluate health information practice in those settings.

HIM 4415. Reimbursement and Case Mix Analysis (2-0-0-2)
Prerequisite: HIM 3206, HIM 3207, HIM 3414.
Examines health information functions relating to reimbursement and billing office procedures, case management relationships to reimbursement methodologies and outcomes management. Examines defini-

tion, purpose and use of case mix classifications.

HIM 4518. Advanced Database Design and Health Information Systems Analysis (3-2-0-4)
Prerequisite: HIM 3517
Advanced principles of database design and data manipulation discussed and demonstrated. Systems analysis emphasized through study and projects. Requests for proposals discussed as an essential part of the systems evaluation process. Development of implementation and computer security plans for health information systems examined.

HIM 4519. Systems Design Implementation (1-4-0-3)
Prerequisite: HIM 4518
Demonstration of systems design and implementation principles. Students design and develop a health information system using database application software. Additionally, students provide system development documentation, an implementation plan and a computer security plan for the health information system they develop.

HIM 4620. Health Statistics for Research (3-0-0-3)
Prerequisite: Senior status
Introduction to research methodology including basic methods of statistical analysis. Students collect, analyze and display data and use microcomputer applications for data analysis.

HIM 4621. Research Design Methodology (1-4-0-3)
Prerequisite: Senior status, HIM 4620.
Demonstration of research principles using a management or clinical study. Uses statistical analysis of data and microcomputers for data analysis and/or word processing.

HIM 4722. Administrative Practicum (0-30-0-5)
Prerequisite: All professional courses in the HIM curriculum.
A six-week administrative affiliation in selected hospitals. Students "shadow" the department director and participate in projects using the skills they have developed through the curriculum.

Medical Technology

Note: Course designations for administrative purposes: MTCC=2+2, MTCM=MLT Articulation, MTCP=4+4, MTCD=Distance Program

MTCC 3180/MTCP 4185. Venipuncture (0-0-5-1)
Prerequisite: None.
Demonstration sessions covering safety and professionalism, venipuncture, capillary stick procedure, blood culture collection, isolation/ universal precautions, patient relations, pediatric patient and blood donor policies/ procedure. Clinical experience in inpatient, outpatient and donor areas.

MTCC 3200. Library Research (0-0-5-1)
Prerequisite: Immunology course
Introduces the use of a medical library through preparation and oral presentation of immunological topics.

MTCC 3240. Basic Professional Concepts (2-9-0-5)
Provides basic and technical skills necessary for student laboratory exercises and clinical experience. Lab exercises develop manual dexterity, integrate basic concepts of laboratory testing. Covers basic hematology, immunology, chemistry, immunohematology and microbiology testing. Educational concepts and principles of management introduced.

MTCC 3280. Junior Clinical Practice (0-0-5-1)
Prerequisite: Satisfactory completion of junior courses, fall semester (C grade or better) and passing grade in all courses spring semester through week 11.
Students gain experience in a clinical laboratory setting, apply theory and skills acquired during two semesters of the junior year in a work environment, create a daily journal and present a final report.

MTCC 3440. Clinical Microbiology I (Jr) (1-3-0-2)
Prerequisite: Successful completion of MTCC 3240 and all fall semester courses.
Introduction to clinically relevant microorganisms through lecture and laboratory studies, written assignments and library projects.

MTCC 3540. Immunology (3-3-0-4)
Prerequisite: MTCC 3240, Basic Laboratory Concepts.
Study of cells and organs of immune system, humoral response, cell-mediated immunity, immuno pathologies of hypersensitivity, auto immunity. Application to transplantation and tumor immunology. Lab exercises emphasize antigen/antibody reactions to clinical diagnostic testing.

MTCC 3640. Clinical Chemistry I (Jr) (1-3-0-2)
Prerequisite: Students enrolled in Medical Technology Program or with permission of instructor.
Basic laboratory principles, chemical hygiene plan; laboratory mathematics, statistics, quality assurance, method evaluation, establishing reference ranges and calculating diagnostic sensitivity and specificity of a laboratory test.

MTCC 3840. Clinical Hematology Fluid Analysis (1-3-0-2)
Prerequisite: Biochemistry; admission into program or permission of instructor
Study of blood cell derivation, maturation, variation, physiology, and function with related laboratory experiences in hematology. Studies diagnostic value of urine and body fluids other than blood using basic chemical analysis and microscopic examination, with related laboratory exercises.

MTCC/M/P 4320. Laboratory Management (0-0-5-1)

Prerequisite: Admission to the program, senior year.

Overview of management theory, management of human and financial resources and management of laboratory operations. Communication skills using a variety of methods, including the World Wide Web, practiced. Provides background theory for Laboratory Management Project Course.

MTCC/M/P 4380. Lab Management Project (0-0-5-1)

Prerequisite: Satisfactory completion of Laboratory Management or permission of instructor.

Enables students to apply management theory, management of human and financial resources and management of laboratory operations to a laboratory situation and practice communication skills using various methods, including the Internet, and a final written project.

MTCC/M/P 4420. Clinical Microbiology II Lecture (4-0-0-3)

Prerequisite: MTCC 3440 or admission to Senior year

Emphasizes microbial diseases, identification procedures and epidemiological significance.

MTCC/M/P 4430. Clinical Microbiology II Laboratory (0-9-0-3)

Prerequisite: Completion of MTCC 3440 or admission to Senior year.

Emphasizes procedures and techniques used to isolate and identify clinically important microorganisms.

MTCC/M/P 4480/4485. Clinical Practice Microbiology (0-0-10-2)

Prerequisite: Successful completion of MTCC4420 and MTCC4430.

Practical application of clinical microbiology techniques including areas of quality assurance, safety practices, data interpretation, instrumentation, library research, professional behavior and introduction to management practices. Fall/Spring.

MTCC/M/P 4580/4585. Senior Clinical Practice Immunology (0-0-10-2)

Prerequisite: MTCC 3540, Immunology or admission to Senior year.

Clinical application and practice of immunological testing. Theory, instrumentation, quality control, work organization and data interpretation presented in context of actual patient sample testing observed and/or conducted by students supervised by qualified clinical instructors. Fall/Spring.

MTCC/M/P 4620. Clinical Chemistry II (Lecture) (3-0-0-3)

Prerequisite: MTCC 3640 or equivalent course or permission of instructor.

Theoretical knowledge of principles of analytical techniques and procedures used in a clinical chemistry laboratory. Emphasizes biochemical aspects, clinical correlation and significance of biochemical testing.

MTCC/M/P 4630. Clinical Chemistry II (Lab) (0-9-0-3)

Prerequisite: MTCC 3640 with C or better grade or permission of instructor.

Practical experience with analytical techniques used in clinical chemistry laboratory, including major analytical techniques covered in spectrophotometric analysis of various analytes in blood. Students prepare reagents, buffer solutions and standards for chemical analysis. Students perform electrophoretic and chromatographic techniques and learn point of care testing and cholesterol screening on patient samples.

MTCC/M/P 4680/4685. Clinical Practice Chemistry (0-0-10-2)

Prerequisite: MTCC, MTCP, MTCM, MTCD: 4620 and MTCM, MTCP, MTCC: 4630 or permission of instructor.

Practical experience in clinical chemistry laboratory supervised by medical technologist: specimen processing, analysis and reporting of patient test results; operation and problem-solving of chemical analyzers, application of quality control, lab safety and method evaluation principles. Fall/Spring

MTCC/M/P 4740. Immunohematology (3-9-0-6)

Prerequisite: Immunology course

Application of basic immunological concepts to study of red cell antigens and antibodies in relation to compatibility testing for transfusion of blood products. Discussions and laboratory exercises on blood bank organizations and regulations, genetic inheritance of blood groups, special techniques, AIHA, HDN, blood components, donors and blood collection, quality control, serological testing of blood products and future trends in blood banking.

MTCC/M/P 4780/4785. Clinical Practice Blood Bank (0-0-10-2)

Prerequisite: Completion of MTCC(P,M) Immunohematology

Clinical course puts theory to continued practice performing tests on patient specimens and reporting results, completing crossmatches, preparing components for issue, identifying multiple antibodies, processing blood components, and interviewing and drawing donors. Fall/Spring

MTCC/M/P 4840. Advanced Hematology (3-9-0-6)

Prerequisite: Biochemistry, MTCC 3840 Clinical Hematology and Fluid Analysis, or permission of instructor.

Discusses correlation of hematological and tests hemostasis with other clinical findings in diagnosing various blood dyscrasias and hemostatic disorders. Case study materials and laboratory experiences.

MTCC/M/P 4880/4585. Clinical Practice Hematology (0-0-10-2)

Prerequisite: MTCC 3840 or MTCP / MTCM 4800,

and MTCC / MTCP / MTCM 4840, or permission of instructor.

Practical application in techniques utilized in a clinical hematology, fluids and hemostasis laboratory, including quality assurance issues, problem-solving skills, phlebotomy and relative management issues. Fall/Spring

MTCD 4200. Library Research/Case Presentation (0-0-5-1)

*Prerequisite: I*mmunology course.

Introduces the use of a medical library through preparation and oral presentation of library research paper on an immunological topic.

MTCD 4320. Laboratory Management (0-0-5-1)

Prerequisite: Admission to program.

Overview of management theory, management of human and financial resources and management of laboratory operations. Communication skills practiced using various methods, including the Internet. Background theory for Lab Management Project, MTC 4380.

MTCD 4380. Laboratory Management Project (0-0-5-1)

Prerequisite: Concurrent enrollment in MTCD4320, Laboratory Management or permission of instructor.

Students apply management theory, management of human and financial resources and management of laboratory operations to laboratory and practice communication skills using various methods, including the Internet, and a final written project.

MTCD 4405. Microbiology Review (2-0-0-2)

Prerequisite: Microbiology.

Reviews basic techniques used in clinical microbiology and the clinically significant bacteria, fungi and parasites.

MTCD 4425. Clinic Microbiology II Lecture (3-0-0-3)

Prerequisite: Admission to program.

Emphasizes microbial diseases, identification procedures and epidemiological significance.

MTCD 4480/4485. Clinical Practice Microbiology (0-0-10-2)

Prerequisite: MLT certification and/or completion of MTCD 4425.

Practical application of clinical microbiology techniques including areas of quality assurance, safety practices, data interpretation, instrumentation, library research, professional behavior and introduction to management practices.

MTCD 4500. Immunology Review (2-0-0-2)

Prerequisite: MLT certification and/or Immunology course

Review of immunological concepts, procedures and methods in the context of medical laboratory testing.

MTCD 4509. Introduction to Immunology(1-0-0-1)

Prerequisite: Acceptance into 4+1 program, without immunology prerequisite. (Optional)

Directed independent study course for students with no immunology prerequisite. Covers structure and function of human immune system. Includes cells and organs of immune system, cytokine functions, humoral response, cell-mediated immunity, basic immunological testing techniques and principles.

MTCD 4586. Immunology in Clinical Practice I (0-0-5-1)

Prerequisite: MLT national certification and acceptance into distance degree program. To be taken concurrently with MTCD 4720/4780 and MTCD 4500 during summer semester.

Clinical application and practice of immunological testing as related to immunohematology and chemistry. Theory, instrumentation, quality control, work organization and data interpretation presented in context of actual patient sample testing observed and/or conducted by students supervised by qualified clinical instructors.

MTCD 4587. Immunology in Clinical Practice II (0-0-5-1)

Prerequisite: MLT national certification and acceptance into distance degree program. To be taken concurrently with MTCD 4425.

Clinical application and practice of immunological testing as related to microbiology and hematology. Theory, instrumentation, quality control, work organization and data interpretation presented in context of actual patient sample testing observed and/or conducted by students supervised by qualified clinical instructors.

MTCD 4600. Laboratory Math and Quality Control (1-0-0-1)

*Prerequisite: S*tudents enrolled in Medical Technology Program or with permission of instructor.

Practical application of laboratory mathematics and its application in reagent preparation, dilution and calculating the concentration of analyte, etc., basic statistics, quality assurance, method evaluation, reference ranges and diagnostic sensitivity and specificity of a laboratory test.

MTCD 4620. Clinical Chemistry II (Lecture) (3-0-0-3)

Prerequisite: MLT certification or permission of instructor.

Theoretical knowledge of principles of analytical techniques and procedures used in a clinical chemistry laboratory. Emphasizes biochemical aspects, clinical correlation and significance of biochemical testing.

MTCD 4680. Clinical Practice Chemistry (0-0-10-2)

Prerequisite: Admitted to Medical Technology Program or permission of instructor

Practical experience in clinical chemistry laboratory supervised by medical technologist. Covers specimen

processing, analysis and reporting of patient test results; operation and problem-solving of chemical analyzers, application of quality control, lab safety and method evaluation principles. Requires three independent lab projects with written reports.

MTCD 4720. Immunohematology Lecture (3-0-0-3)
Prerequisite: MLT certification; immunology course.
For MLT articulation students, application of immunological concepts to study red cell antigens and antibodies in relation to compatibility testing for transfusion of blood products. Discussions and laboratory exercises on blood bank organizations and regulations, genetic inheritance of blood groups, special techniques, AIHA, HDN, blood components, donors and blood collection, quality control, serological testing of blood products and future trends in blood banking.

MTCD 4780. Clinical Practice Blood Bank(0-0-10-2)
Prerequisite: Completion of MTCC(P,M) Immunohematology
Clinical course puts theory to continued practice performing tests on patient specimens and reporting results, completing crossmatches, preparing components for issue, identifying multiple antibodies, processing blood components and interviewing and drawing donors.

MTCD 4810. Hematology and Fluids Review (2-0-0-2)
Prerequisite: Admission to Distance MLT Articulation program or permission of instructor; co-requisite MTCD 4820, Advanced Hematology Lecture, and MTCD 4880, Senior Clinical Practice Hematology.
Review of basic hematology and fluid analysis in didatic and lab experiences as co-requisite in senior clinical practice hematology course.

MTCD 4820. Advanced Hematology Lecture (3-0-0-3)
Prerequisite: Biochemistry; admission into MLT Distance Education Program or permission of instructor
Correlation of hematological tests with other clinical findings in diagnosing blood dyscrasias and hemostatic disorders. Case study materials.

MTCD 4880. Clinical Practice Hematology (0-0-10-2)
Prerequisite: Co-requisite MTCD 4840 or permission of instructor.
Practical application in techniques utilized in a clinical hematology, fluids and hemostasis laboratory, including quality assurance issues, problem-solving skills, phlebotomy and relative management issues.

MTCF 4100. Laboratory Conference I (1-0-0-1)
Prerequisite: Admission to program.
Student attends working lab meeting, develops weekly plan of day-to-day operations of flow cytometry lab and implements new test procedures.

MTCF 4110. Laboratory Conference II (1-0-0-1)
Prerequisite: Admission to program.
Working lab meeting, development of weekly plan of day-to-day operation of flow cytometry lab and implementation of new test procedures.

MTCF 4120. Laboratory Conference III (1-0-0-1)
Prerequisite: Admission to program.
Student works as member of flow cytometry team and participates in the weekly "working lab" meetings and helps plan and decide his role in the day-to-day operations of the flow cytometry lab. Includes presentation of research findings.

MTCF 4130. Introductory Flow Cytometry (2-0-0-2)
Prerequisite: Admission to program.
Overview of instrumentation, principles and diagnostic application of flow cytometry. Focuses on basic electronics and mechanics of flow cytometer, statistical analysis of data, and DNA and phenotype marker techniques.

MTCF 4140. Intermediate Flow Cytometry (1-0-0-1)
Prerequisite: Admission to program.
Teaches operation and application of principles introduced in MTCF4130. Data interpretation and analysis emphasized in more detail regarding clinical diagnostic application.

MTCF 4150. Advanced Flow Cytometry (1-0-0-1)
Prerequisite: Admission to program.
Covers advanced operations such as multicolor, dye laser and sorting. Includes other applications such as reticulocyte, platelet and WBC antibodies, chromosome analysis, NK and drug assays, microbiology, cell functions and industrial applications.

MTCF 4160. Introduction to Flow Cytometry Lab (0-10-0-5)
Prerequisite: Admission to program.
Basic components of flow cytometry instrumentation, preparation of lab samples, utilization of quality control procedures, reagents and statistics.

MTCF 4170. Intermediate Flow Cytometry Lab (0-10-0-5)
Experience in hands-on operation, such as setup, laser alignment, MDADS, runs and trouble-shooting. Performs data analysis acquisition and transfer, and DNA and phenotype analysis.

MTCF 4180. Advanced Flow Cytometry Lab (0-10-0-5)
Prerequisite: Admission to program.
Experience in advanced operation and non-routine applications of the flow cytometer. Actual operations include multicolor, dye laser and sorting. Other applications are reticulocyte, platelet and WBC antibody, chromosome analysis, NK and drug assay, microbiology, cell functions and industrial applications.

Completion of research projects required.

MTCF 4901. Directed Individual Study-Flow Cytometry (0-0-1-5)
Prerequisite: Admission to program.
Flow cytometry-related projects or discussion.

MTCI 4900. Directed Individual Study-General (0-0-1-5)
Prerequisite: Admission to program.
General laboratory science related projects.

MTCI 4903. Directed Individual Study-Management (0-0-0-5)
Prerequisite: Management-related projects in medical technology.

MTCI 4904. Directed Individual Study—Microbiology (0-0-0-5)
Prerequisite: Admission to program.
Microbiology-related project including classroom presentations and related research project.

MTCI 4905. Directed Individual Study-Immunology (0-0-0-5)
Prerequisite: Admission to program.
Imuunology related project.

MTCI 4906. Directed Individual Study-Chemistry (0-0-1-5)
Prerequisite: Chemistry related project.

MTCI 4907. Directed Individual Study-Immunohematology (0-0-1-5)
Prerequisite: Blood bank related project.

MTCI 4908. Directed Individual Study-Hematology (0-0-1-5)
Prerequisite: Hematology related project.

MTCM/P 4400. Microbiology Review (1-3-0-2)
Prerequisite: Microbiology.
Review of clinically significant microorganisms and techniques used in isolation and identification.

MTCM/P 4500. Immunology Review (2-0-0-2)
Prerequisite: MLT certification and/or Immunology course
Review of immunological concepts, procedures and methods in context of medical laboratory testing.

MTCM/P 4509. Introduction to Immunology (1-0-0-1)
Prerequisite: Acceptance into program, without immunology prerequisite.
(Optional) Directed independent study course for students with no immunology prerequisite. Covers structure and function of human immune system. Includes cells and organs of immune system, cytokine functions, the humoral response, cell-mediated immunity, basic immunological testing techniques and principles.

MTCM/P 4600. Laboratory Math And Quality Control (1-0-0-1)
Prerequisite: Students enrolled in the Medical Technology Program or with permission of instructor.
Practical application of laboratory mathematics and its application in reagent preparation, dilution and calculating the concentration of analyte, etc.; basic statistics, quality assurance, method evaluation, reference ranges and diagnostic sensitivity and specificity of a laboratory test.

MTCM/P 4800. Basic Hematology and Fluid Analysis (1-3-0-2)
Prerequisite: Biochemistry; admission into the 4+1 or MLT Articulation program, or permission of instructor.
Introductory lecture/lab experiences in hematology and fluid analysis. Correlation of hematologic and hemostasis tests with other clinical findings in diagnosing blood dyscrasios and hemostatic disorders with case study materials and laboratory experiences.

Occupational Therapy

OCC 3100. Professional Concepts in Occupational Therapy (1-2-3-3)
Prerequisite: Admission to program.
Introduction to occupational therapy including historical and current trends. Foundational concepts to occupational therapy theory and practice including professional communication, responsibility for personal and professional growth and professional behavior. Introduction to problem-based learning and professional literature.

OCC 3150. Movement Analysis (1-4-0-3)
Prerequisite: Admission to program, concurrent ANM 3500.
Study of movement emphasizing biomechanical analysis of normal movement patterns as applied to occupational therapy including basic evaluation methods. IP Course

OCC 3170. Activity Analysis (1-4-0-3)
Prerequisite: Admission to program.
Use and analysis of activity and introduction to selection of activity; implications of purposeful activity from a historic and therapeutic orientation. Use of occupational performance frame of reference. Therapeutic communication and the teaching training process.

OCC 3200. Clinical Reasoning in Occupational Therapy (1-2-3-3)
Prerequisite: First-semester courses.
Development of clinical reasoning skills in evaluation, goal-setting, selection, grading and adaptation of methods and media. Use of decision tree, linking statements and frames of reference. Includes testing terminology, principles of evaluation and treatment planning, and documentation.

OCC 3270. Therapeutic Adaptation (1-4-0-3)
Prerequisite: First-semester courses.
Activity adaptation to promote performance. Includes strategies for handling incidents related to patient care and group activities to teach life skills.

OCC 4300. Development and Dysfunction of the Child and Adolescent (1-2-3-3)
Prerequisite: OCC3200, Applied Neuroscience, OCC3270, concurrent with OCC4370.
Study of typical and atypical development of sensorimotor, cognitive and psychosocial performance components, acquisition of occupational roles and influence of environment in the 0-21 population. Fieldwork experiences in community and clinical environments.

OCC 4310. Mental Health Programming (2-2-3-4)
Application of clinical reasoning and selected frames of reference for occupational therapy programs for mental health problems. Includes hospital and community-based programs.

OCC 4340. Adult Role Development (2-0-3-3)
Prerequisite: OCC 3200, OCC 3270
Development and evaluation of adult roles emphasizing work and retirement. Treatment programs and settings including wellness, community and industry.

OCC 4370. Therapeutic Activity (1-4-0-3)
Prerequisite: OCC 3270, concurrent with OCC4300.
Practice course focusing on developmental activities and sensorimotor techniques for children and adolescents and computers in treatment.

OCC 4400. Treatment Methods in Adult Dysfunction (2-2-3-4)
Prerequisite: OCC 4340.
Clinical reasoning, frames of reference and occupational therapy techniques for physical dysfunction in adults including acute and chronic conditions which influence occupational performance and performance components. Includes fieldwork.

OCC 4450. Clinical Conditions (2-2-0-3)
Prerequisite: OCC3200, Applied Neuroscience, ITD 7003.
Analysis of common diagnoses and clinical problems emphasizing orthopedic, neuromuscular and general medicine problems. Includes influence on the quality of life and implications for occupational therapy.

OCC 4470. Practice Skills (1-4-0-3)
Practice course focusing on occupational therapy skills used for various clinical conditions. Includes use of purposeful activities, thermal agents, design and construction of adaptive equipment, splinting and selected treatment techniques.

OCC 4480. Occupational Therapy Research (1-2-0-2)
Prerequisite: AHS 3640 and AHS 3650.
Application of research process by conducting in-depth critique of literature, deriving clinical implications by analyzing literature, and creating a research proposal.

OCC 4500. Advanced Clinical Reasoning (2-2-0-3)
Prerequisite: All 4300 and 4400 coursework.
Application of clinical reasoning for writing treatment protocols and critical pathways, setting treatment priorities, treating varied caseloads and complex cases, justifying treatment, and collaborating with a team. Traditional and non-traditional practice arenas addressed.

OCC 4580. OT Service Management (1-2-0-2)
Prerequisite: concurrent OCC 4500.
Application of administrative and supervisory processes including management principles, professional standards and planning for program evaluation. IP Course.

OCC 4700. Fieldwork Experience A (0-0-40-9)
Prerequisite: OCC 4500.
Full-time fieldwork experience applying clinical reasoning in a practice environment.

OCC 4800. Fieldwork Experience B (0-0-40-9)
Prerequisite: OCC 4700.
Full-time fieldwork experience applying clinical reasoning in a practice environment.

Electives

OCC 4610. Investigation of a Problem (variable credit-1-3)
Prerequisite: Permission of instructor.
Student investigates topic of interest or need.

OCC 4620. Pediatric Practice (variable credit-1-3)
Prerequisite: OCC4500.
Advanced studies in pediatric practice.

OCC 4630. Cognitive Rehabilitation (variable credit-1-3)
Prerequisite: OCC 4500.
Investigation and application of evaluation and treatment principles and research related to cognitive rehabilitation in occupational therapy.

OCC 4640. Promoting the Profession (variable credit-1-3)
Prerequisite: OCC4500.
Application of marketing and advocacy principles in occupational therapy.

OCC 4650. Stress Management Programs (variable credit-1-3)
Prerequisite: OCC4500
Application of clinical reasoning to planning stress management programs. Includes practical experiences.

OCC 4660. Advanced Splinting and Orthotics (variable credit-1-3)
Prerequisite: OCC4500.
Construction and application of advanced techniques for splinting and orthotics in occupational therapy.

OCC 4680. Occupational Therapy in the Work Place (variable credit-1-3)
Prerequisite: OCC 4500.
Application of occupational therapy principles to evaluation, training and rehabilitation of individuals for worker tasks and worker role and environment adaptation.

OCC 4690. Research Project (variable credit-1-3)
Prerequisite: Permission of instructor.
Individual research project dealing with area of interest to student supervised by faculty member.

OCC 4900. Elective Fieldwork (variable credit-1-3)
Prerequisite: Permission of instructor.
Full-time fieldwork experience in an area of the student's choice.

OTA 2250. Occupational Therapy Assistant Practice (1-0-0-2)
Prerequisite: Admission to program.
Professional and practice issues for certified occupational therapy assistants; includes intraprofessional activities.

OTA 2300. Developmental Tasks (1-4-1-4)
Prerequisite: OTA 2250.
Development and analysis of play, school, self-care and work activities through the life span. Laboratory activities include skill development, clinic management and instruction of individuals and groups.

OTA 2350. Practice Skills for Physical Disabilities (1-4-3-4)
Prerequisite: OTA 2250, OTA 2300.
Application of COTA's role in occupational therapy process with physical disabilities.

OTA 2360. Practice Skills for Pediatrics (1-4-2-4)
Prerequisite: OTA 2300, OTA 2350, OTA 2370, OTA 2400.
Application of COTA's role in occupational therapy process in pediatrics.

OTA 2370. Practice Skills for Psychosocial Dysfunction (1-4-3-4)
Prerequisite: OTA 2250, OTA 2300.
Application of COTA's role in occupational therapy process with psychosocial dysfunction.

OTA 2400. Treatment Methods (0-6-1-4)
Prerequisite: OTA 2250, OTA 2300.
Application of occupational therapy principles to use and adaptation of leisure, homemaking and work tasks. Includes modifying the physical environment, directing activity programs, designing home programs and considerations unique to long-term and community care.

OTA 2500. Fieldwork Experience (0-0-40-8)
Prerequisite: All didactic coursework.
Full-time fieldwork experience after completing didactic coursework.

OTA 2510. Fieldwork Experience (0-0-40-4)
Prerequisite: All didactic coursework.
Full-time fieldwork experience after completing didactic work.

OTA 2520. Fieldwork Experience (0-0-40-4)
Prerequisite: All didactic coursework.
Full-time fieldwork experience after completing didactic coursework.

Physician Assistant

PAD 3080. Physical Diagnosis (3-1-0-5)
Perform physical exams, take medical histories, use basic hand instruments in performing physical examinations. Normal findings emphasized.

PAD 3280. Clinical Medicine 1 (6-1-0-7)
Prerequisite: PAD 3080, ANN 3320.
Intense didactic course exploring pathophysiology of disease processes (physical and mental) and relationships among symptoms, objective and laboratory findings.

PAD 3290. Clinical Medicine 2 (11-1-0-12)
Prerequisite: PAD3280.
Continuation of PAD3280.

PAD 3430. Surgical and Acute Care (2-2-0-3)
Prerequisite: PAD 3280, PAD 3080, ANN 3320.
Common and acute-care surgical problems. Laboratory sessions introduce aseptic technique, surgical instruments, suturing, wound management and operating room demeanor.

PAD 3470. Medical Communication Skills and Terminology for Physician Assistant (2-0-0-2)
Terminology and communication skills to elicit patient histories and communicate this information to other members of health care team. Emphasizes performing competent medical interviews. Skills practiced in Clinical Medicine I and II.

PAD 3480. Psych-Soc Issues in Health Care I (1-0-0-1)
Exposure to social psychology applied to general medicine practice. Topics include interpersonal relations, family problems, human sexuality, children's special needs, minority group health needs, effects of chronic illness and death and dying.

PAD 3490. Psych-Soc Issues In Health Care II (1-0-0-1)
Prerequisite: PAD 3480.
Continuation course on psychosocial issues and

unique role of physician assistant. Covers history of profession, legal and ethical issues of PA practice, types of practice settings and roles of other allied health professionals.

PAD 3990. Independent Study (0-0-0-1-6)
Additional or initial exposure to didactic material supervised by faculty member.

PAD 4010. Preceptorship (0-0-40-6)
Prerequisite: All Phase I and II courses.
A required rotation generally selected as the last rotation during enrollment. Students may select from any primary-care area such as family practice, pediatrics, internal medicine or general surgery.

PAD 4030. Family Practice (0-0-40-6)
Prerequisite: All Phase I courses.
Clinical problems in family-practice setting.

PAD 4040. Internal Medicine (0-0-40-6)
Prerequisite: All Phase I courses.
Evaluate and manage patients with medical problems such as diabetes, hypertension, respiratory diseases, cardiac diseases and other major system disorders.

PAD 4050. Pediatrics (0-0-40-6)
Prerequisite: All Phase I courses.
Evaluate health problems that occur from birth through adolescence.

PAD 4060. Obstetrics And Gynecology (0-0-40-6)
Prerequisite: All Phase I courses.
Evaluate and manage health issues associated with female organs including pregnancy.

PAD 4070. Mental Health (0-0-40-6)
Prerequisite: All Phase I courses.
Evaluate, manage and make dispositions on mental health problems.

PAD 4180. Surgery (0-0-40-6)
Prerequisite: All Phase I courses.
Principles of surgical management of patients including preoperative, postoperative and operating room care.

PAD 4200. Emergency Medicine (0-0-40-6)
Prerequisite: Phase I courses.
Evaluate and manage problems that typically present to a hospital ER and master procedures commonly performed.

PAD 4900. Independent Study (0-0-0-1-6)
Additional or initial exposure to clinical specialties supervised by physician certified in that specialty.

Radiologic Technologies

DMS 3610. Sonologic Instrumentation (1-0-0-1)
Prerequisite: Concurrent enrollment in DMS 3641 or permission of Instructor/Program Director.
Emphasizes using and understanding sonographic equipment and controls through problem-based learning. Students apply basic physical principles of ultrasound to pathologies presented in case format.

DMS 3611. Sonologic Applications 1: Abd/Ob/Gyn (3-1-0-3)
Prerequisite: Concurrent enrollment in RSC 4601, DMS 3641, or permission of Instructor/Program Director.
Introduces sonographic scanning in areas of abdomen, first-trimester obstetrics, gynecology, male pelvis, small parts, extra-cranial structures and intracranial structures. Emphasizes normal imaging anatomy, scanning protocols and image orientation. Teaches Doppler ultrasound application for arterial and venous systems of above areas.

DMS 3612. Sonologic Application II: Abd/Ob/Gyn (4-0-0-4)
Prerequisite: DMS 3611 or permission of Instructor/Program Director.
(PART 2 OF 3 PART COURSE) Focuses on pathologic changes in anatomical areas covered in Part I. Emphasizes all ultrasound imaging modes and their role in pathology recognition.

DMS 3613. Sonologic Application III (Abd/Ob/Gyn) (3-0-0-2)
Prerequisite: DMS 3611, DMS 3612, or permission of Instructor/Program Director
(PART 3 OF 3 PART COURSE) Emphasizes advanced techniques and invasive procedures in learning subjects studied in Parts I and II. Successful completion of course requires passing grade on program exit examination.

DMS 3641. Clinical Internship I (0-0-24-4)
Prerequisite: Concurrent enrollment in DMS 3610, RSC 3611, RSC 4601, DMS 3610 or permission of Program Director.
Students participate in various clinical learning areas. Introduces clinical applications of dynamic real-time and Doppler imaging. Teaches scanning expertise through supervised active participation in clinical environment. Proof of clinical competence and special clinical projects complete course.

DMS 3642. Clinical Internship II (0-0-24-4)
Prerequisite: DMS 3641 or permission of Program Director
Students participate in clinical learning areas. Students continue to develop scanning expertise through supervised participation in clinical environment. Proof of clinical competence and special clinical projects complete course.

DMS 3643. Clinical Internship III (0-0-24-4)
Prerequisite: DMS 3641, DMS 3642 or permission of Program Director.
Students participate in clinical learning areas. Students continue to develop scanning expertise

through supervised participation in clinical environment. Proof of clinical competence and special clinical projects complete course.

DMS 4620. Independent Study (0-0-0-3)
Prerequisite: Senior status in DMS program.
Students explore topics of interest in diagnostic medical sonography through completion of project. Projects emphasize writing, organizational skills, accuracy of content and effectiveness of material presentation.

DMS 4620C. Independent Study (0-0-0-3)
Prerequisite: Senior status in DMS program.
Students explore topics of interest in diagnostic medical sonography through completion of project. Projects emphasize writing, organizational skills, accuracy of content and effectiveness of material presentation.

DMS 4621. Sonologic Application IV (2-0-0-2)
Prerequisite: Completion of certificate/junior year or permission of Program Director.
Introduces normal cardiac imaging techniques including two-dimensional, M-mode and cardiac Doppler. Emphasizes normal transcranial Doppler techniques. Students investigate common pathological changes of the extra-cranial cerebrovascular system.

DMS 4621C. Sonologic Application IV (2-0-0-2)
Prerequisite: Completion of certificate/junior year or permission of Program Director.
Introduces normal cardiac imaging techniques including two-dimensional, M-mode and cardiac Doppler. Emphasizes normal transcranial Doppler techniques. Students investigate common pathological changes of the extra-cranial cerebrovascular system.

DMS 4622. Sonologic Application V: Eco/Vasc Tech (5-0-0-5)
Prerequisite: DMS 4621 or permission of Instructor/Program Director.
Focuses on pathologic changes in cardiovascular system of adult and child.

DMS 4622C. Sonologic Application V: Eco/Vasc Tech (5-0-0-5)
Prerequisite: DMS 4621 or permission of Instructor/Program Director.
Focuses on pathologic changes in cardiovascular system of adult and child.

DMS 4641. Clinical Internship IV (0-0-24-4)
Prerequisite: DMS 3641, DMS 3642, DMS 3643 or permission of Program Director.
Students participate in clinical learning areas. Introduces clinical applications of dynamic real-time and Doppler imaging in cardiac and vascular technologies. Teaches scanning expertise through supervised participation in clinical environment. Proof of clinical competence and special clinical projects complete course.

DMS 4641C. Clinical Internship IV (0-0-24-4)
Prerequisite: DMS 3641, DMS 3642, DMS 3643 or permission of Program Director.
Students participate in clinical learning areas. Introduces clinical applications of dynamic real-time and Doppler imaging in cardiac and vascular technologies. Teaches scanning expertise through supervised participation in clinical environment. Proof of clinical competence and special clinical projects complete course.

DMS 4642. Clinical Internship V (0-0-24-4)
Prerequisite: DMS 4641 or permission of Program Director.
Students participate in clinical learning areas. Students continue to learn scanning expertise through supervised participation in clinical environment. Proof of clinical competence and special clinical projects complete course.

DMS 4642C. Clinical Internship V (0-0-24-4)
Prerequisite: DMS 4641 or permission of Program Director.
Students participate in clinical learning areas. Students continue to learn scanning expertise through supervised participation in clinical environment. Proof of clinical competence and special clinical projects complete course.

NMT 3611. Principles of Nuclear Medicine I (3-2-0-4)
Prerequisite: Admission to program.
Radiopharmaceutical preparation and quality control, anatomy and positioning, rationale, procedures, and technical aspects of routine imaging procedures. (Part I of a two-part course.)

NMT 3612. Principles of Nuclear Medicine II (3-2-0-4)
Prerequisite: NMT 3611
Rationale, procedures and technical aspects of nuclear cardiology, functional imaging, hematology, and nuclide therapy protocols. (Part II of a two-part course.)

NMT 3623. Clinical Correlation Seminar (2-0-0-1)
Prerequisite: NMT 3611 AND NMT 3612
Study of nuclear medicine through literature review, discussion groups, and student or guest presentations.

NMT 3641. Clinical Internship (0-0-18-3)
Prerequisite: Admission to program.
Introduction to fundamentals of department operations, equipment and materials, patient care and management. Student observes clinical application of fundamentals and learns how they are applied by nuclear medicine technologist to patient imaging procedures. Student assists and performs routine procedures supervised by clinical instructor.

NMT 3642. Clinical Internship (0-0-18-3)
Prerequisite: NMT 3641

Student observes, assists and performs routine and cardiac procedures and functional studies supervised by clinical instructor.

NMT 3643. Clinical Internship (0-0-30-5)
Prerequisite: NMT 3641, NMT 3642
Student practices performance of all aspects of nuclear medicine technology supervised by clinical instructor, including routine imaging, cardiac procedures, SPECT, functional imaging, quality control, record-keeping and patient management.

NMT 4602. Independent Study/Research (Elective) (0-0-0-1-3)
Prerequisite: Senior-level status in department.
Students select a study or research topic reflecting their interests. Suitable paper or report required. Credit awarded based on difficulty of project.

NMT 4602C. Independent Study/Research (Elective) (0-0-0-1-3)
Prerequisite: Senior-level status in department.
Students select a study or research topic reflecting their interests. Suitable paper or report required. Credit awarded based on difficulty of project.

NMT 4623. Radiochemistry (3-2-0-4)
Prerequisite: Senior-level status in Nuclear Medicine Technology.
Special radiochemistry and radiopharmacy techniques presented through lecture and practical laboratory experience. Chemical and biological aspects of radiopharmaceutical production, federal regulations for radiopharmaceutical development and quality control emphasized.

NMT 4623C. Radiochemistry (3-2-0-4)
Prerequisite: Senior-level status in Nuclear Medicine Technology.
Special radiochemistry and radiopharmacy techniques presented through lecture and practical laboratory experience. Chemical and biological aspects of radiopharmaceutical production, federal regulations for radiopharmaceutical development and quality control emphasized.

NMT 4641. Clinical Practicum (0-0-12-2)
Prerequisite: Senior-level status in Nuclear Medicine Technology.
Student performs routine and special function procedures minimally supervised by clinical instructor. Student responsible for quality and appropriateness of study. Special clinical assignments may be made at discretion of clinical supervisor or clinical coordinator. Practicum may include nuclear cardiology, computer utilization, special radiochemistries and radiopharmacy procedures, CT, ultrasound, MRI or routine nuclear procedures.

NMT 4641C. Clinical Practicum (0-0-12-2)
Prerequisite: Senior-level status in Nuclear Medicine Technology.
Student performs routine and special function procedures minimally supervised by clinical instructor. Student responsible for quality and appropriateness of study. Special clinical assignments may be made at discretion of clinical supervisor or clinical coordinator. Practicum may include nuclear cardiology, computer utilization, special radiochemistries and radiopharmacy procedures, CT, ultrasound, MRI or routine nuclear procedures.

NMT 4642. Clinical Practicum (0-0-12-2)
Prerequisite: NMT 4641.
Student performs routine and special function procedures minimally supervised by clinical instructor. Student responsible for quality and appropriateness of study. Special clinical assignments may be made at discretion of clinical supervisor or clinical coordinator. Practicum may include nuclear cardiology, computer utilization, special radiochemistries and radiopharmacy procedures, CT, ultrasound, MRI, or routine nuclear procedures.

NMT 4642C. Clinical Practicum (0-0-12-2)
Prerequisite: NMT 4641.
Student performs routine and special function procedures minimally supervised by clinical instructor. Student responsible for quality and appropriateness of study. Special clinical assignments may be made at discretion of clinical supervisor or clinical coordinator. Practicum may include nuclear cardiology, computer utilization, special radiochemistries and radiopharmacy procedures, CT, ultrasound, MRI or routine nuclear procedures.

PCS 3631. Physics of Diagnostic Imaging and Information Systems (3-2-0-4)
Prerequisite: Admission to department program.
Review of physics foundations based on energy and matter applied to diagnostic imaging; principles of ionizing radiation and sound; and interactions of energy with matter. Study of principles of physical and technical aspects of medical analog image formation. Introduces fundamentals of computer-aided medical digital imaging and computer-based image archiving and retrieving networks.

PCS 3632. Physics of Nuclear Medicine Technology (3-2-0-4)
Prerequisite: PCS 3631.
Lectures on theory of operating nuclear medicine laboratory instrumentation with weekly experiments in directed laboratory sessions. Emphasizes quality control of nuclear medicine laboratory instrumentation.

PCS 3650. Sonologic Physics (3-0-0-3)
Prerequisite: College algebra (pre-calculus recommended), completion of DMS 3610, or permission of instructor/program director.
Acoustical physics. Properties and physical principles of ultrasound are covered including sound production, ultrasound interaction with human tissue, transducers,

machine controls, biological effects and quality assurance techniques.

PCS 4631. Physics of Radiation Oncology (3-2-0-4)
Prerequisite: Pre-calculus or permission of instructor.
Introduction to radiation physics emphasizing radiation therapy physics. Basic principles of radiation such as radioactive decay, production of X-rays, radiation quality, radiation interaction with matter, radiation detection and measurement and radiation safety. Design and principles of operation of radiation therapy equipment included.

PCS 4632. Radiation Oncology Dosimetry (3-0-0-3)
Prerequisite: PCS 4631.
Application of physics learned in PCS 4631 to radiation oncology. Concepts of dose distribution in tissue patient treatment approaches and planning techniques. Calculation systems for photon, electron and brachytherapy treatments included and all modification factors for treatment devices, patient geometry and machine parameters considered in depth. Course designed to augment student's clinical knowledge from rotations in radiation therapy and radiation dosimetry.

PCS 4633. Advanced Imaging Techniques (2-1-0-2)
Prerequisite: Pre-Calculus; PCS 3631.
Advanced applications of medical digital images and computer systems. Didactic lecture series and hands-on laboratory exercises emphasize specialized areas of clinical utilization of computer hardware and software available in medical imaging departments as an instrument of medical diagnosis and therapy. Emphasizes three-dimensional reconstructive techniques.

PCS 4633C. Advanced Imaging Techniques (2-1-0-2)
Prerequisite: Pre-Calculus; PCS 3631.
Advanced applications of medical digital images and computer systems. Didactic lecture series and hands-on laboratory exercises emphasize specialized areas of clinical utilization of computer hardware and software available in medical imaging departments as an instrument of medical diagnosis and therapy. Emphasizes three-dimensional reconstructive techniques.

PCS 4635. Advanced Physics of Nuclear Medicine (3-2-0-4)
Prerequisite: PCS 3631 & PCS 3632.
Applications of nuclear medicine computer systems. Didactic lecture series and hands-on laboratory exercises emphasize specialized areas of clinical utilization of computer hardware and software available in nuclear medicine departments as an instrument of medical diagnosis. Addresses physical principles and quality control of SPECT and PET imaging.

PCS 4635C. Advanced Physics of Nuclear Medicine (3-2-0-4)
Prerequisite: PCS 3631 and PCS 3632.
Applications of nuclear medicine computer systems. Didactic lecture series and hands-on laboratory exercises emphasize specialized areas of clinical utilization of computer hardware and software available in nuclear medicine departments as an instrument of medical diagnosis. Addresses physical principles and quality control of SPECT and PET imaging.

PCS 4636. Advanced Medical Dosimetry and Treatment Planning (3-0-0-3)
Prerequisite: Admission to program.
Detailed study of patient dosimetry for radiation therapy. Advanced planning techniques for external beam and brachytherapy. Treatment planning projects assigned to illustrate various techniques. Emphasizes comparing treatment methods for selected anatomical sites.

PCS 4636C. Advanced Medical Dosimetry and Treatment Planning (3-0-0-3)
Prerequisite: Admission to program.
Detailed study of patient dosimetry for radiation therapy. Advanced planning techniques for external beam and brachytherapy. Treatment planning projects assigned to illustrate various techniques. Emphasizes comparing treatment methods for selected anatomical sites.

RSC 2602. Diagnostic Imaging and Therapeutic Modalities (1-0-0-1)
Prerequisite: Admission to department programs.
Overview of nuclear medicine, radiography, ultrasound, computer tomography, magnetic resonance imaging and radiation therapy for sophomore radiologic technologies students. A correlative approach introduces these adjunct imaging and therapeutic modalities. Content areas for each module are terminology, instrumentation, operational principles, clinical applications and benefits.

RSC 3602. Problem-Based Learning in Radiologic Patient Management (1-2-0-1)
Prerequisite: Admission to department programs.
Case studies illustrate clinical significance of nuclear medicine, sonograpy, radiography (including CT and MRI) and radiation therapy. Students research and present patient cases which utilize diagnostic and therapeutic modalities.

RSC 3611. Introduction to Radiologic Patient Care (2-1-0-2)
Prerequisite: Admission to program.
Presentation of fundamental patient care skills needed for entry-level radiologic science professionals. Includes medical assessment, physical assessment, physical assistance, infection control and aseptic technique, drug administration, patient special needs and medical emergencies.

RSC 3613. Professional-Patient Interaction (2-0-0-1)
Prerequisite: Admission to program.
Introduction to imaging professional-patient interac-

tion including profile of imaging professionals, profile of patients in general, elements of effective communication and interaction and specific patient vignettes. Psychosocial, ethical and medicolegal issues incorporated.

RSC 3633. Radiation Protection and Biology (3-1-0-3)

Prerequisite: RSC 3631.

Regulations, principles and practices of radiation protection, and information particular to each radiologic specialty and/or modality. Medical aspects of radiobiology including cellular, systemic and total body responses; and somatic and genetic effects of radiation.

RSC 4602. Sectional Anatomy (2-0-0-2)

Prerequisite: Admission to department programs.

Supplement to radiologic science student's general knowledge of radiologic anatomy by presenting sectional human anatomy. Anatomy recognition via diagrams, human sections and radiologic images (including but not limited to CT, MR and sonologic scans) focuses on head, thorax, abdomen and pelvis. Foundation for further study in imaging modalities.

RSC 4602C. Sectional Anatomy (2-0-0-2)

Prerequisite: Admission to department programs.

Supplement to radiologic science student's general knowledge of radiologic anatomy by presenting sectional human anatomy. Anatomy recognition via diagrams, human sections and radiologic images (including but not limited to CT, MR and sonologic scans) focuses on head, thorax, abdomen and pelvis. Foundation for further study in imaging modalities.

RSC 4610. Advanced Radiologic Patient Care (2-1-0-2)

Prerequisite: Admission to department program.

Patient care emphasizing assessment and medical response in critical-care situations. Review and evaluation of patient assessment and treatment protocols; ECG monitoring, lethal dysrhythmia identification; activation of critical-care response protocols; code situations; and emergency pharmacology. ACLS course included.

RSC 4610C. Advanced Radiologic Patient Care (2-1-0-2)

Prerequisite: Admission to department program.

Patient care emphasizing assessment and medical response in critical-care situations. Review and evaluation of patient assessment and treatment protocols; ECG monitoring, lethal dysrhythmia identification; activation of critical-care response protocols; code situations; and emergency pharmacology. ACLS course included.

RSC 4621. Pathology for Radiologic Sciences (2-0-0-2)

Prerequisite: Admission to department program.

General pathologic processes, emphasizing anatomic and physiologic pathologies in which diagnostic imaging modalities or radiation therapy are important in patient management. Lab values and radiographic images integrated into classroom presentations, along with plain and gross anatomy of the pathologies.

RSC 4621C. Pathology for Radiologic Sciences (2-0-0-2)

Prerequisite: Admission to department program.

General pathologic processes, emphasizing anatomic and physiologic pathologies in which diagnostic imaging modalities or radiation therapy are important in patient management. Lab values and radiographic images integrated into classroom presentations, along with plain and gross anatomy of the pathologies.

RSC 4653. Research Designs and Statistical Methods in Rad Sciences (2-2-0-3)

Prerequisite: Elementary statistics or permission of instructor.

Introduction to fundamentals of designing research and statistical methods appropriate for allied health and radiological sciences. Teaches working knowledge of basic descriptive and inferential statistics to analyze relationships and differences among groups, and differentiation between experimental and quasi-experimental research designs. Students design a project and develop it into a research proposal.

RSC 4653C. Research Designs and Statistical Methods in Rad Sciences (2-2-0-3)

Prerequisite: Elementary statistics or permission of instructor.

Introduction to fundamentals of designing research and statistical methods appropriate for allied health and radiological sciences. Teaches working knowledge of basic descriptive and inferential statistics to analyze relationships and differences among groups, and differentiation between experimental and quasi-experimental research designs. Students design a project and develop it into a research proposal.

RSM 4632. Management of the Radiology Department (2-0-0-2)

Prerequisite: Admission to department program.

Application of principles of business administration and personnel management to radiology department, including study of budgeting and financing, personnel interaction, patient scheduling, design and equipment purchasing and concepts of quality management.

RSM 4632C. Management of the Radiology Department (2-0-0-2)

Prerequisite: Admission to department program.

Application of principles of business administration and personnel management to radiology department, including study of budgeting and financing, personnel interaction, patient scheduling, design and equipment purchasing and concepts of quality management.

RTR 2641. Clinical Practicum (0-0-30-5)

Prerequisite: Admission to department programs.

Students perform and demonstrate clinically the

knowledge gained in corresponding courses of curriculum. Student performs as a practicing radiographer.

RTR 2651. Seminar (2-0-0-2)
Prerequisite: Admission to department programs.
Overview of didactic and clinical program topics as they relate to performance skills and problem-solving. Frequent evaluations diagnose areas of deficiency for each student to raise these areas to optimal levels of competency.

RTR 3611. Radiographic Procedures 1 (5-2-0-6)
Prerequisite: Admission to program.
First of a two-course sequence in radiographic positioning and imaging procedures. Presents anatomic and positioning terminology; topographic landmarks; positioning criteria and tasks for routine imaging of chest, abdomen, skeleton and cranium; and image analysis. Fundamentals of image production, exposure control and image quality sufficient for basic image analysis presented.

RTR 3612. Radiographic Procedures 2 (3-2-0-4)
Prerequisite: Admission to program.
Characteristics and performance of routine contrast media procedures of gastrointestinal, genitourinary and accessory digestive systems; and imaging techniques for specialized views of the skull. Basic parameters of select special procedures including purpose, procedural steps, patient and equipment preparation, type and injection method of contrast media, radiographic series, imaging and anatomy visualized.

RTR 3621. Radiographic Technique 1 (3-0-0-3)
Prerequisite: Admission to program.
Photographic principles of radiography, including film, image receptors and processing. Covers factors that affect image quality. Discusses devices that influence production and control of scatter radiation.

RTR 3622. Radiographic Technique 2 (2-1-0-2)
Prerequisite: Admission to program.
Advanced theory of radiographic technique, emphasizing mathematical application. Sensitometry, technique principles of image intensification and associated image recording mechanisms, and radiographic exposure systems included.

RTR 3631. Radiologic Science (2-0-0-2)
Prerequisite: Admission to program.
Presentation of components and principles of operation of diagnostic radiographic equipment. Discussion of equipment, preventive maintenance, test equipment and computer applications.

RTR 3641. Clinical Internship (0-0-24-4)
Prerequisite: Enrollment in program.
Students perform clinical procedures and apply knowledge gained in corresponding courses of curriculum. Opportunity to perform as a practicing radiographer.

RTR 3642. Clinical Internship (0-0-24-4)
Prerequisite: Successful completion of previous clinical internship course(s) in sequence, or permission of program faculty.
Students perform and demonstrate clinically knowledge gained in corresponding courses of curriculum. Opportunity to perform as a practicing radiographer.

RTR 3643. Clinical Internship (0-0-30-5)
Prerequisite: Successful completion of previous clinical internship course(s) in sequence, or permission of program faculty.
Students perform and demonstrate clinically knowledge gained in corresponding courses of curriculum. Opportunity to perform as a practicing radiographer.

RTR 4622. Special Topics (1-0-0-1)
Prerequisite: Admission to program.
Review of current literature in radiography including recent technical advances in practice and current and future trends. Student presentation and discussion emphasized.

RTR 4622C. Special Topics (1-0-0-1)
Prerequisite: Admission to program.
Review of current literature in radiography including recent technical advances in practice and current and future trends. Student presentation and discussion emphasized.

RTR 4631. Principles and IInstrumentation of CT (3-0-0-3)
Prerequisite: Certified technologist or permission of instructor.
Concepts of CT physics and instrumentation, imaging procedures and protocols and patient care/management in CT.

RTR 4631C. Principles and Instrumentation of CT (3-0-0-3)
Prerequisite: Certified technologist or permission of instructor.
Concepts of CT physics and instrumentation, imaging procedures and protocols and patient care/management in CT.

RTR 4632. Principles and Instrumentation of Mammography (3-0-0-3)
Prerequisite: Certified radiographer or permission of instructor.
Comprehensive study of anatomy and physiology of the breast; physics, instrumentation, and principles of mammography technique and mammographic positioning.

RTR 4632C. Principles and Instrumentation of Mammography (3-0-0-3)
Prerequisite: Certified radiographer or permission of instructor.
Comprehensive study of anatomy and physiology of the breast; physics, instrumentation, and principles of mammography technique and mammographic positioning.

RTR 4633. Principles and Instrumentation of MRI (3-0-0-3)

Prerequisite: Precalculus and PCS 3631; permission of instructor.

Overview of clinical and biological potential of magnetic resonance imaging, an in-depth presentation of fundamental principles of MR signal generation. Proton density, relaxation times (T1 and T2) and motion, or flow, introduced with their various interpretations and effects on image contrast. Imaging procedures and protocols, and patient care/management in MRI presented.

RTR 4633C. Principles and Instrumentation of MRI (3-0-0-3)

Prerequisite: Precalculus and PCS 3631; permission of instructor.

Overview of clinical and biological potential of magnetic resonance imaging, an in-depth presentation of fundamental principles of MR signal generation. Proton density, relaxation times (T1 and T2) and motion, or flow, introduced with their various interpretations and effects on image contrast. Imaging procedures and protocols, and patient care/management in MRI presented.

RTR 4637. Quality Control in Radiography (2-0-0-2)

Prerequisite: Admission to program.

Philosophy and basic principles of quality control in radiography. Factors influencing image quality, the influence of these factors on radiographs, explanation of instruments used in a quality control program and collection and interpretation of statistical data.

RTR 4641. Clinical Internship (0-0-12-2)

Prerequisite: Successful completion of previous clinical internship course(s) in sequence, or permission of program faculty.

Students perform and demonstrate clinically knowledge gained in corresponding courses of curriculum. Opportunity to perform as a practicing radiographer.

RTR 4651. Seminar (1-0-0-1)

Prerequisite: Admission to program.

Comprehensive overview of didactic and clinical program topics related to performance skills and problem-solving. Evaluations used to raise performance skills to optimal levels of competency.

RTR 4652. Independent Study (0-0-1-4)

Prerequisite: Admission to program.

Pursuit of a topic or course of study, or investigation of a problem, of interest to student and approved by instructor.

RTR 4652C. Independent Study (0-0-1-4)

Prerequisite: Admission to program.

Pursuit of a topic or course of study, or investigation of a problem, of interest to student and approved by instructor.

RTR 4660. Clinical Practicum (0-2-12-3)

Prerequisite: Admission to program.

Clinical experience in practice setting(s) through assignment to one or two sites selected from available rotations, such as quality control, quality assurance, angiography, teaching, and radiologic disciplines and/or specialties.

RTR 4660C. Clinical Practicum (0-2-12-3)

Prerequisite: Admission to program.

Clinical experience in practice setting(s) through assignment to one or two sites selected from available rotations, such as quality control, quality assurance, angiography, teaching, and radiologic disciplines and/or specialties.

RTR 4661. CT Clinical Practicum (0-2-12-3)

Prerequisite: RTR 4631 (my be concurrent) or permission of instructor.

Clinical experience in practice setting(s) for various anatomical systems to provide skills development in patient management, image acquisition and manipulation and procedural protocols.

RTR 4661C. CT Clinical Practicum (0-2-12-3)

Prerequisite: RTR 4631 (may be concurrent) or permission of instructor.

Clinical experience in practice setting(s) for various anatomical systems to provide skills development in patient management, image acquisition and manipulation and procedural protocols.

RTR 4662. Mammography Clinical Practicum (0-0-12-3)

Prerequisite: RTR 4632 (may be concurrent) or permission of instructor.

Clinical experience in practice setting(s) for skills development in patient management, image acquisition and procedural protocols.

RTR 4662C. Mammography Clinical Practicum (0-0-12-3)

Prerequisite: RTR 4632 (may be concurrent) or permission of instructor.

Clinical experience in practice setting(s) for skills development in patient management, image acquisition and procedural protocols.

RTR 4663. MRI Clinical Practicum (0-2-12-3)

Prerequisite: RTR 4633 (may be concurrent) or permission of instructor.

Clinical experience in practice setting(s) for skills development in patient management, image acquisition and manipulation and procedural protocols.

RTR 4663C. MRI Clinical Practicum (0-2-12-3)

Prerequisite: RTR 4633 (may be concurrent) or permission of instructor.

Clinical experience in practice setting(s) for skills development in patient management, image acquisition and manipulation and procedural protocols.

RTT 3641. Radiation Oncology Clinical Internship (0-0-24-4)

Prerequisite: Admission to program.

Students work with clinical personnel in a team approach to radiation therapy treatment, planning and patient care.

RTT 3642. Radiation Oncology Clinical Internship (0-0-24-4)

Prerequisite: Admission to program.

Students work with clinical personnel in a team approach to radiation therapy treatment, planning and patient care.

RTT 3643. Radiation Oncology Clinical Internship (1-0-36-6)

Prerequisite: Admission to program.

Students work with clinical personnel in a team approach to radiation therapy treatment, planning and patient care.

RTT 4601. Principles of Radiation Oncology (4-0-0-4)

Prerequisite: Admission to program.

Overview of radiation therapy to include medical terminology, patient care, basic machine usage, communication skills, rationale of radiation therapy and related subject matters.

RTT 4613. Quality Assurance for Radiation Oncology (1-2-0-2)

Prerequisite: Admission to program.

Overview of quality assurance in radiation therapy including methods of monitoring function of radiation therapy equipment, maintenance of complete and accurate patient records and records reflecting function of equipment and routine checks for general condition of treatment room.

RTT 4614. Radiation Oncology Simulation Procedures (2-0-0-2)

Prerequisite: Senior-year standing or permission of instructor.

General principles of patient simulation including familiarization with equipment, patient positioning and rationale for simulation of radiation therapy portals.

RTT 4615. Radiation Oncology Seminar (3-0-0-3)

Prerequisite: Senior standing or permission of instructor.

Review of radiation therapy literature through research, discussions and student or guest presentation.

RTT 4621. Cancer Management in Radiation Oncology (3-0-3-3)

Prerequisite: Admission to program.

Introduction to specific malignant disease entities by site of occurrence. Disease processes and treatment planning philosophy discussed, including relationship between treatment planning and clinical radiation therapy.

RTT 4640 . Radiation Oncology Clinical Internship (0-0-24-4)

Prerequisite: Admission to program.

Monthly clinical at Georgia Radiation Therapy Center in Augusta. Students work with clinical personnel in team approach to radiation therapy treatment, planning and patient care.

RTT 4641. Radiation Oncology Clinical Internship (0-0-18-3)

Prerequisite: Admission to program.

Monthly clinical at Georgia Radiation Therapy Center in Augusta. Students work with clinical personnel in team approach to radiation therapy treatment, planning and patient care.

RTT 4642. Radiation Oncology Clinical Internship (0-0-24-4)

Prerequisite: Admission to program.

Monthly clinical at Georgia Radiation Therapy Center in Augusta. Students work with clinical personnel in team approach to radiation therapy treatment, planning and patient care.

RTT 4643. Radiation Oncology Clinical Internship (0-0-36-6)

Prerequisite: Admission to program.

Monthly clinical at Georgia Radiation Therapy Center in Augusta. Students work with clinical personnel in team approach to radiation therapy treatment, planning and patient care.

RTT 4644. Medical Dosimetry Clinical Internship (0-0-36-6)

Prerequisite: Admission to program.

Monthly clinical experiences including annual calibrations of equipment with a physicist, dose calculations and treatment planning, radiation safety and quality assurance.

RTT 4645. Medical Dosiemtry Clinical Internship (0-0-30-5)

Prerequisite: Admission to program.

Monthly clinical experiences including annual calibrations of equipment with a physicist, dose calculations and treatment planning, radiation safety and quality assurance.

RTT 4646. Medical Dosimetry Clinical Internship (1-0-36-6)

Prerequisite: Admission to program.

Monthly clinical experiences including annual calibrations of equipment with a physicist, dose calculations and treatment planning, radiation safety and quality assurance.

RTT 4647. Medical Dosimetry Special Topics (4-0-0-3)

Prerequisite: Admission to program.

Review of current literature in medical dosimetry, including data on recent technical advances in practice, current and future trends. Student presentation

and discussion emphasized.

RTT 4647C. Medical Dosimetry Special Topics (4-0-0-3)

Prerequisite: Admission to program.

Review of current literature in medical dosimetry, including data on recent technical advances in practice, current and future trends. Student presentation and discussion emphasized.

RTT 4648. Applied Project (4-0-0-4)

Prerequisite: Admission to program.

Directed project in which the student works independently on a project related to management or education in radiation oncology.

RTT 4648C. Applied Project (4-0-0-4)

Prerequisite: Admission to program.

Directed project in which the student works independently on a project related to management or education in radiation oncology.

Respiratory Therapy

RTH 3101. Essentials of Respiratory Care 1 (3-2-0-4)

Applied cardiopulmonary anatomy and physiology, applied physical assessment, mechanics of ventilation and theories of respiratory care equipment and techniques.

RTH 3199. Medical Terminology (0-0-0-1)

A self-study course introducing use of medical terminology. Combination of programmed learning and instructor supervision used emphasizing work/construction, definition and use of medical terms.

RTH 3202. Essentials of Respiratory Care 2 (5-0-0-5)

Prerequisite: RTH3101.

Principles and applications of respiratory care equipment, infection control including universal precautions and patient assessment. Comprehensive review of basic respiratory care.

RTH 3203. Essentials of Respiratory Care 2 Lab (0-4-0-2)

Prerequisite: Concurrent Enrollment RTH3101.

Hands-on approach including application of respiratory care assessment and treatments. Offers experience with function, administration and troubleshooting of respiratory equipment.

RTH 3209. Pulmonary Rehabilitation (2-0-4-3)

Prerequisite: RTH 3101, RTH 3202, RTH 3203.

Introduction to gerontology and health promotion with chronic pulmonary diseases, including application of elements of multidisciplinary pulmonary rehabilitation program. Emphasizes patient assessment and education, implementing comprehensive exercise programs and the role of respiratory care in discharging patients from acute-care facilities to alternate-care sites.

RTH 3310. Cardiopulmonary Pathophysiology (2-6-0-5)

Prerequisite: Physiology, Anatomy, RTH 3202, RTH 3203.

Clinical signs, symptoms, diagnosis, treatment and management of acute and chronic cardiopulmonary diseases emphasizing role of respiratory care professional. Patient assessment skills emphasized using case study approach and group discussion.

RTH 3320. Clinical 1 (0-0-8-2)

Prerequisite: RTH 3202 & RTH 3203.

Students perform basic respiratory care in acute-care areas and alternate-care sites. Emphasizes patient assessment techniques, oxygen administration, aerosol therapy, CPR and other techniques aimed at improving health.

RTH 4303. Independent Study (0-0-0-1-3)

Prerequisite: Permission of instructor.

Student pursues study of interest in a non-resident or informal setting.

RTH 4407. Management of the Mechanical Ventilator Patient (1-4-0-3)

Prerequisite: RTH 3310.

A study of optimal intensive care management of mechanically ventilated patients. The course includes indications for instituting mechanical ventilation, selecting initial parameters, patient monitoring and management, appropriate use of each mode of ventilation, controlling work of breathing, weaning and liberation from mechanical ventilation, and non-invasive mechanical ventilation.

RTH 4410. Advanced Respiratory Care (3-1-0-3)

Prerequisite: RTH 3310.

Advanced respiratory care procedures and patient assessment methods. Emphasizes hemodynamics airway care and monitoring techniques.

RTH 4412. Clinical Presentations (1-4-0-3)

Pulmonary conditions requiring critical care management and mechanical ventilation emphasizing respiratory care. Experience in searching medical records and support materials to make a written and verbal presentation of an actual clinical case.

RTH 4417. Newborn and Pediatric Respiratory Care (3-0-0-3)

Prerequisite: RTH 3310.

Comprehensive study of neonatal and pediatric respiratory care including fetal development, labor and delivery, patient assessment, resuscitation techniques, cardiopulmonary diseases and techniques of conventional and non-conventional mechanical ventilation.

RTH 4515. Advanced Ventilator Management and Pulmonary Function Testing (2-4-0-4)

Prerequisite: RTH 4407, RTH 4410.

Continuation of RTH 4407 emphasizing advanced waveform analysis and diagnostics, including advanced

pulmonary function testing procedures.

RTH 4521. Clinical II (0-0-20-5)
Prerequisite: RTH 4412, RTH 4407, RTH 4410, RTH 4417.

Students perform advanced clinical procedures related to respiratory care with supervision in various clinical settings. Settings include adult, pediatric and neonatal intensive care units, hyperbarics, O.R., E.R., pulmonary function laboratory, sleep laboratory and alternate sites. Emphasizes techniques of mechanical ventilation, hemodynamic monitoring, airway establishment and maintenance, patient evaluation and testing and emergency respiratory care.

RTH 4622. Clinical III (0-0-20-2)
Prerequisite: RTH 4521, RTH 4515.

Continuation of Clinical II.

RTH 4623. Clinical IV (0-0-40-5)
Prerequisite: RTH 4622, Concurrent Enrollment with RTH 4650.

Students travel to clinical affiliate for extensive experience in respiratory care.

RTH 4650. Respiratory Care Seminar (10-0-0-1)

Discussion of trends in respiratory care. Students prepare resume and practice interviewing/communication skills. Comprehensive written and clinical simulation examinations administered.

School of Dentistry

Dean—Dr. David R. Myers
Associate Dean for Students and Alumni Affairs—Dr. Wallace S. Edwards
Associate Dean for Research and Continuing Education—Dr. Thomas R. Dirksen
Associate Dean for Curriculum and Advanced Education—Dr. James T. Barenie
Associate Dean for Patient Services—Dr. Robert W. Comer
Assistant Dean for Business Affairs—Mr. Bryan A. Adams

Mission

As an integral unit of the Medical College of Georgia, the School of Dentistry is committed to achieving academic excellence, providing optimal oral health care and actively engaging in research, scholarship and creative endeavors to meet the needs of the widely-dispersed and highly-diverse population of Georgia, the region and the nation.

In view of these commitments, the School of Dentistry affirms its determination:

—To provide outstanding educational programs to prepare dental professionals, biomedical scientists, and educators at the predoctoral and postdoctoral levels and to offer lifelong learning opportunities for members of the profession.

—To provide high quality, state-of-the-art dental health care which includes oral health promotion and oral disease prevention and which encourages innovation in dental health care delivery to meet the changing dental health care needs of the people of Georgia.

—To conduct research that generates and applies biomedical knowledge and technology to oral health and disease and promotes the transfer of technology to the dental care delivery system.

In fulfilling this mission, the School of Dentistry aspires to be recognized as one of the premier dental schools through outstanding education programs, excellence in patient care and leading-edge research and scholarship.The school is committed to the cultural, ethnic, racial and gender diversity of its faculty, staff and student body. This commitment embraces interactive, ongoing partnerships with students, with patients and with the public in order to effectively serve those who seek a career, those who seek care, and those who seek knowledge.

Doctor of Dental Medicine (D.M.D.) Program

Accreditation

The Doctor of Dental Medicine (D.M.D.) program offered by the School of Dentistry is accredited by the Commission on Dental Accreditation of the American Dental Association.

Admissions Information for the Doctor of Dental Medicine (DMD) Program

Selection of a Career in Dentistry Should Be an Informed Decision

The selection of a career should be made after a careful examination of the pros and cons of the field under consideration. Observing in the office of a general dentist is the best way to learn about dentistry, and the Student Admissions and Recruitment Committee recommends that applicants make arrangements to observe in the offices of one or more general dentists. While observing in a dentist's office is not a requirement for

admission, it is seen by the committee as one measure of an applicant's interest in dentistry as a career.

Admissions Requirements

Admission is on a competitive basis. The admissions committee recommends for selection those who, in the judgment of the committee, are best qualified for admission from among those who apply.

All applicants for admission must meet the following minimum requirements to be considered for admission:

Academic Requirements

1. Three years (at least 135 quarter hours or 90 semester hours) of undergraduate course work at an American college or university accredited by a regional accrediting agency, to be completed before the expected first registration date.
2. The above credit hours must include a minimum of 10 quarter hours (or two complete semesters) in each of the following subjects:
   Inorganic Chemistry with lab
   Organic Chemistry with lab
   Biology with lab
   Physics with lab
   English

Applicants are advised to complete the entire sequence of course work covering the above science requirements where the sequence exceeds 10 quarter hours. For example, many universities offer organic chemistry as three five-quarter hour courses and applicants are advised to take all three courses. Applicants are also advised, but not required, to take at least one course in biochemistry. "Survey" courses will not meet science course requirements. All required courses must be passed with a grade of C or better.

New Academic Requirements for the 2000 Entering Class

Effective with the 2000 entering class, academic requirements for admission to the School of Dentistry will be as follows:

a. Completion of a minimum of 90 semester hours or 135 quarter hours of college level credit at an accredited American college or university. (However, preference will be given to students who have finished a baccalaureate degree.)
b. Completion of the following science courses:
   (1) One academic year* of general biology or zoology with lab
   (2) One academic year* of general/inorganic chemistry with lab
   (3) One academic year* of advanced chemistry, one semester or two quarters of which must be organic chemistry with lab followed by a third quarter or second semester of organic chemistry with lab or a quarter or semester of biochemistry (lab not included).
   (4) One academic year* of physics with lab
   (5) One academic year* of English or English for the portion of the academic year required for the baccalaureate degree at an accredited American college or university.
c. All required courses must be taken on a graduated grading scale (A, B, C, D, F); required courses may not be taken on a pass/fail basis. Applicants must earn a grade of C or better in all required courses.
d. Other suggested courses (not required) include biochemistry, comparative anatomy with lab, microbiology, marketing, personnel management, psychology, or art classes requiring painting or sculpture.

*An academic year equals two semesters or three quarters or one semester and two quarters.

Dental Admission Test Requirements

All applicants for admission must have taken the Dental Admission Test (DAT) within three years of application. Applicants for the 1999 entering class must have taken the DAT not earlier than fall of 1996.

There are presently two versions of the DAT: a written version and a computerized version. The written DAT is being discontinued after the October 1998 administration of the test. Although applicants may take the computerized DAT at any time they like, applicants for the 1999 entering class taking

the computerized DAT must do so no later than the last day of October 1998. Scores from the DAT taken after October 1998 will not be used for selection of the 1999 entering class.

Applicants may take the DAT as many times as desired, but a minimum of 90 days must pass before an applicant can repeat the DAT. For example, if an applicant has taken the written DAT, that applicant cannot take the computerized DAT until 90 days has passed. Likewise, if an applicant takes the computerized DAT, that applicant cannot take the written DAT until 90 days has passed. Only the results of the last four administrations of the DAT will be reported on the DAT transcript and made available to the School of Dentistry. Greatest emphasis is given to the most recent scores.

For more information and an application for the D.A.T., write:

Dental Admission Testing Program
American Dental Association
211 East Chicago Avenue
Chicago, Illinois 60611
or
Student Admissions and Academic Support
Medical College of Georgia
School of Dentistry
Augusta, Georgia 30912-1020

English Language Requirements

The Test of English as a Foreign Language (TOEFL) and the Test of Spoken English (TSE-P) are required of all applicants whose native language is not English. Applicants taking the Test of Spoken English must register for the TSE-P category exam; results of the TSE-A category exam will not be accepted. For admission to the School of Dentistry, applicants must achieve a score of at least 600 on the TOEFL. Applicants must take both the TOEFL and TSE-P no later than November in order to be considered for admission for the class admitted for the following August.

Recommendations and Interviews

Letters of recommendation are required; additional information concerning these letters is contained in the application packet. Interviews are also required; applicants are invited for interviews by the admissions committee following a review of each completed application. These interviews are with members of the School of Dentistry faculty who help assess those aspects of the applicant's personality, motivation and ability deemed pertinent to the successful study of dentistry.

Admission Decisions

Admission decisions are made based on the grade point average (both overall and in the sciences), D.A.T. scores, letters of recommendation, interviews, other language test scores, if appropriate, and an assessment of the motivation and personal qualities of the applicant that are deemed most conducive to the successful completion of the program and the practice of dentistry. Preference is given to residents of Georgia.

Admissions Application

Applications for the entering class may be requested after July 1 by writing:

Student Admissions and Academic Support
Medical College of Georgia
School of Dentistry
Augusta, Georgia 30912-1020
or by phoning (706) 721-3587

Early application is strongly encouraged. No official action can be taken on an applicant until a completed application form is received. No applications will be accepted for the next academic year that are postmarked after Nov. 1. There is no application fee.

MCG does not participate in the Association of American Dental Schools Application Service (AADSAS).

Application Deadline

Classes begin each August, and the application deadline is Nov. 1 of the previous year, i.e., over nine months prior to the date of expected first enrollment.

Additional Immunization Policies of the School of Dentistry

In addition to institution-wide requirements for immunizations, all students entering the School of Dentistry must provide the School of Dentistry with evidence that they are immunized against Hepatitis-B. Immunization

against Hepatitis-B requires a series of three injections over a period of approximately six months. Failure to do so shall be grounds for not allowing the student to register as an MCG student. The following exceptions to this policy may apply in individual cases:

1. The dean, School of Dentistry, may grant exceptions for individual students in cases in which, in the dean's judgment, sufficient grounds based on medical or religious reasons exist to exempt the student.
2. In cases where compliance with this policy is not feasible, such as a late accepted student, the dean may grant an extension for the student to comply. The hepatitis-B immunization sequence must be initiated prior to enrollment and completed prior to beginning clinical activities. Students granted an extension shall be registered provisionally and will be disenrolled if in non-compliance after fall semester of the first year of the curriculum.

Refer to the General Section of this catalog to see the other institution-wide requirements for immunization.

Fees and Expenses

General Fees Due Each Semester

See Fees Section under General Information of this catalog for these costs.

Estimated Student Expenses Specific to Dentistry

	First Year	*Second Year*	*Third Year*	*Fourth Year*
Books and supplies	$1,342	648	415	280
Instruments/ Equipment	1,854	1,854	1,854	1,237
Uniforms	48	24	0	0
Other fees and services	185	210	275	299
Totals	$ 3,429	2,736	2,544	1,816

Additional expenses related to a required off-campus clinical experience may be incurred. One such experience is required, three weeks in length, during the summer between junior and senior year. Expenses vary based on location.

Other Fees and Expenses

Estimated housing, food and personal expenses are not listed above due to individual variance. In developing a personal budget, do not fail to include these items. Information on hospitalization and life insurance is in the General Information section of this catalog.

Financial Aid

The Office of Student Financial Aid has a bulletin outlining its financial aid program, and other assistance programs not directly administered by the institution. This information may be obtained along with application materials by writing: Office of Student Financial Aid, Medical College of Georgia, Room 2013 Kelly Administration Building, 1120 Fifteenth Street, Augusta, Georgia 30912-7320.

Applications for financial aid are separate from admission applications; one need not be officially accepted for admission before applying for assistance; however, students must be accepted before aid applications may be fully evaluated. Application materials should be received by the Office of Student Financial Aid by March 31 prior to enrollment, although later applications will be considered if funds are still available.

Curriculum

The Doctor of Dental Medicine (D.M.D.) curriculum requires at least 11 academic semesters over four calendar years. The curriculum initially emphasizes the basic sciences with an expanding emphasis on the clinical sciences. The student's knowledge and familiarity with the basic sciences is reinforced with courses in each clinical discipline.

The educational goals of the D.M.D. program include educating students to:

—Recognize and provide for the oral health needs of the people of Georgia, the region and the nation.
—Deliver contemporary and efficient high-quality oral health care.
—Accept the responsibility to conduct themselves in an ethical manner and to appreciate the need for life-long earning.

Doctor of Dental Medicine (D.M.D.) Curriculum Schedule*

Required D.M.D. Courses

Fall: First Semester		*Credit Hours*
ETH 5000	Ethics for Health Professionals	1
DAU 5001	Introduction to Operatory Procedures	1
NSO 5001	New Student Orientation	1
OBMP 5001	General and Oral Microanatomy	6
OBMP 5101	Biochemical Basis of Oral Health and Disease	6
OBMP 5601	Bioclinical Seminar I (Parts A and B)	–
OCC 5001	Dental Anatomy and Occlusion	6
OMD 5001	Principles of Personal Prevention	1
ORP 5001	Orientation to the Profession and Ethics	1
RES 5001	Operative Dentistry	1
STAT 5001	Statistics, Epidemiology and the Scientific Method	1
	Total	*25*

Spring: Second Semester		
CPR 5001	Basic Cardiac Life Support (CPR)	1
OBMP 5002	Applied Health and Neck Anatomy	5
OBMP 5102	Molecular Biology of Craniofacial Development	2
OBMP 5201	Physiological Foundation for Dental Practice I	4
OBMP 5601	Bioclinical Seminar I (Parts A and B)	–
OMD 5002	Oral Diagnosis I	1
OMD 5003	Nutrition	1
PER 5001	Fundamentals of Periodontology	3
RADD 5001	Radiology	2
RES 5001	Operative Dentistry	5
	Total	*24*

Summer: Third Semester		
OBMP 5003	Neuroscience	3
OBMP 5202	Physiological Foundation for Dental Practice II	2
OBMP 5401	Pharmacology and Therapeutics for Dental Practice I	1
OBMP 5601	Bioclinical Seminar I (Parts A and B)	1
OCC 5002	Occlusal Analysis	3
OMTP 5001	Treatment Planning I	1
OSD 5001	Local Anesthesia	1
PRO 5001	Preclinical Complete Dentures	1
RES 5002	Fixed Prosthodontics I	1
	Total	*14*

Fall: Fourth Semester		
IPS 5901	Introduction to Patient Services	2
OBMP 5004	Systemic Anatomy	3
OBMP 5301	Oral Microbiology and Infectious Disease I	3
OBMP 5501	Applied Pathology for Dentistry	5
PRO 5001	Preclinical Complete Dentures	6
PRO 5002	Removable Partials	1
RES 5002	Fixed Prosthodontics I	4
RES 5003	Fixed Prosthodontics II	1
	Total	*25*

Spring: Fifth Semester		
ENDO 5001	Fundamentals of Endodontics	3
IPS 5901	Introduction to Patient Services	4
OBMP 5302	Oral Microbiology and Infectious Disease II	3
OBMP 5602	Bioclinical Seminar II (Parts C and D)	–
OBMP 5603	Special Topics in Oral Biology	–
ORTH 5001	Orthodontics I	2
PER 5002	Surgical Periodontics	1
PRO 5002	Removable Partials	4
PRO 5003	Complete Dentures	3
RES 5003	Fixed Prosthodontics II	4
	Total	*24*

Summer: Sixth Semester		
ENDO 5901	Endodontic Clinic	–
OBMP 5303	Cariology	2
OBMP 5502	Clinical Pathology Conferences	2
OBMP 5602	Bioclinical Seminar II (Parts C and D)	1
OBMP 5603	Special Topics in Oral Biology	2
OCC 5003	Diagnosis and Treatment of Temporomandibular Disorders	2
OMD 5901	Oral Medicine Clinic	–
OSD 5002	Fundamentals of Oral Surgery	2
OSD 5901	Oral Surgery Clinic	–
PER 5901	Periodontic Clinic	1
PM 5901	Patient Services	–
RADD 5002	Dental Radiologic Interpretation	2
RES 5901	Restorative Clinic	2
	Total	*16*

Fall: Seventh Semester		
DAU 5901	Dental Practice Dynamics Clinic	–
DPS 5001	Dental Materials	2
ENDO 5901	Endodontic Clinic	–

OBMP 5402	Pharmacology and Therapeutics for Dental Practice II	5
OCC 5901	Occlusion Clinic	–
OMD 5901	Oral Medicine Clinic	1
ORTH 5002	Orthodontics II	2
OSD 5901	Oral Surgery Clinic	–
PER 5901	Periodontic Clinic	1
PM 5901	Patient Services	1
PRO 5004	Advanced Prosthodontics	3
PRO 5901	Prosthodontic Clinic	–
RES 5004	Fixed Prosthodontic Seminar I	1
RES 5005	Esthetic Restorative Dentistry	3
RES 5901	Restorative Clinic	3
	Total	*22*

Spring: Eighth Semester

CPR 5002	Basic Cardiac Life Support (CPR)	1
DAU 5002	Principles and Practice of Small Business Administration	2
DAU 5901	Dental Practices Dynamics Clinic	–
EDS 5901	Emergency Dental Services	–
ENDO 5901	Endodontic Clinic	1
OBMP 5503	Oral Pathology I	2
OBMP 5504	Oral Pathology II	3
OCC 5901	Occlusion Clinic	–
OMD 5004	Oral Medicine: The Medically Compromised Patient	3
OMD 5902	Oral Medicine Clinic	1
OMTP 5002	Treatment Planning II	1
ORTH 5901	Orthodontic Clinic	–
OSD 5003	Advanced Oral Surgery	1
OSD 5901	Oral Surgery Clinic	–
PEDO 5001	Preclinical Pediatric Dentistry	3
PER 5003	Contemporary Topics in Periodontology	1
PER 5902	Periodontic Clinic	1
PM 5902	Patient Services	–
PRO 5901	Prosthodontic Clinic	1
RES 5902	Restorative Clinic	3
VOD 5001	Vocational Opportunities in Dentistry	1
	Total	*25*

Summer: Ninth Semester

CLK 5901	Clerkship	4
DAU 5003	Principles and Practices of Small Business Administration	3
DAU 5901	Dental Practice Dynamics Clinic	1
EDS 5901	Emergency Dental Services	1
ENDO 5902	Endodontic Clinic	–
OCC 5901	Occlusion Clinic	1
OMD 5903	Oral Medicine Clinic	–
ORTH 5901	Orthodontic Clinic	–
OSD 5901	Oral Surgery Clinic	1
OSD 5903	Oral Surgery Hospital Clinic	–
PEDO 5901	Pediatric Dentistry Clinic	–
PER 5903	Periodontic Clinic	1
PM 5902	Patient Services	1
PRO 5901	Prosthodontic Clinic	1
RES 5902	Restorative Clinic	2
	Total	*16*

Fall: Tenth Semester

EDS 5902	Emergency Dental Services	–
ENDO 5002	Endodontic Seminar	1
ENDO 5902	Endodontic Clinic	1
GER 5001	Introduction to Geriatric Dentistry	1
IMPL 5001	Introduction to Oral Implantology	1
ISEM 5001	Interdisciplinary Seminar	–
MB 5901	Mock Boards	1
OBMP 5403	Dental Pharmacology Seminar	1
OBMP 5505	Clinical Oncology	1
OCC 5902	Occlusion Clinic	–
OMD 5005	Oral Medicine	1
OMD 5903	Oral Medicine Clinic	1
ORTH 5901	Orthodontic Clinic	–
OSD 5902	Oral Surgery Clinic	1
OSD 5903	Oral Surgery Hospital Clinic	1
PEDO 5002	Pediatric Dentistry Seminar	1
PEDO 5003	Dentistry for the Disabled Patient	1
PEDO 5901	Pediatric Dentistry Clinic	1
PER 5004	Periodontology in a General Practice	2
PER 5903	Periodontic Clinic	1
PM 5903	Patient Services	1
PRO 5902	Prosthodontic Clinic	2
RES 5903	Restorative Clinic	7
	Total	*27*

Spring: Eleventh Semester

EDS 5902	Emergency Dental Services	1
ENDO 5902	Endodontic Clinic	1
ETH 5001	Ethics, Jurisprudence and Dentistry	1
ISEM 5001	Interdisciplinary Seminar	1
MB 5901	Mock Boards	1
OCC 5902	Occlusion Clinic	1
OMD 5006	Senior Oral Medicine Case Presentations	1
OMD 5903	Oral Medicine Clinic	1
ORTH 5901	Orthodontic Clinic	1
OSD 5902	Oral Surgery Clinic	1
OSD 5903	Oral Surgery Hospital Clinic	1
PEDO 5902	Pediatric Dentistry Clinic	2

PER 5904	Periodontic Clinic	2
PM 5904	Patient Services	1
PRO 5903	Prosthodontic Clinic	2
RES 5006	Restorative Seminar	1
RES 5904	Restorative Clinic	7
	Total	*26*

*The curriculum is subject to change. See later section for individual course descriptions.

Extramural (Off-Campus) Clinics

As part of the total educational experience, students may be involved in an ambulatory dental facility remote from the School of Dentistry. This course occurs in the summer of the 9th semester (CLK 5901).

The Student and Research

The dental student has the opportunity to participate in research projects supervised by faculty in both basic science and clinical areas.

Academic Progress Policies

Review of Academic Progress

Academic progress of students is monitored by the Student Academic Review Committee. At the end of each semester, and at any other time deemed appropriate the Student Academic Review Committee reviews and evaluates each student's performance and recommends one of the following to the dean:

1. continue enrollment as a regular student;
2. continue enrollment as a student on academic probation;
3. continue enrollment as a special student;
4. repeating of course work in any deficient areas, as appropriate;
5. repeating of a portion of the curriculum;
6. dismissal; or
7. promotion to the next year of the curriculum (effective the end of spring semester of each year), as appropriate.

Dean's List

Students who exhibit acceptable professional behavior and whose grade point average (GPA) while carrying at least 12 hours in any semester is 3.25 (on a 4.00 scale) or higher and who have not received any unsatisfactory or failing grades for the semester are named to the Dean's List. Dean's List qualifications for students receiving grades of Incomplete (I) will not be determined until the I is replaced by an earned grade.

Failing Grades and Incompletes

Students must pass all courses within the curriculum to be eligible for graduation. When a failing grade is received, an F is recorded. The student must be re-registered in the course before a passing grade can be earned. Each course syllabus will state the criteria for satisfactorily repeating a course which has been failed. In order to earn a second grade for a course previously failed, students must participate in additional learning experiences under the supervision of the course director prior to receiving a final grade for the second attempt of the course. Promotion to the next year of the curriculum is precluded until all courses in the preceding year have been completed with a passing grade.

If a student receives an Incomplete, the course director will notify the student in writing of the time limitations and requirements to remove the I, subject to approval by the Student Academic Review Committee and the dean. When the student completes the course, the course director is responsible for submitting the grade earned by the student to replace the I. Grade changes should be submitted within three days of course completion. Any I grade not replaced by an earned grade within the next two semesters in residence following the assignment of the I will be changed to a grade of F. Promotion to the next year of the curriculum is precluded until all Incomplete grades have been removed. Responsibility for monitoring resolution of I grades rests with the chairman of the Student Academic Review Committee.

Special Students

Any student who, as a result of academic deficiencies, is required to study in an altered curriculum (e.g., more courses, fewer courses or different courses than the student's class would normally be taking) will be considered

a special student. Special students would normally not be expected to graduate on time.

Time Limitations

In all policies of the Student Academic Review Committee regarding time limitations, working days shall include the five days of the work week (Monday through Friday) regardless of whether classes are in session, and shall exclude all official holidays of the Medical College of Georgia. Exceptions to this definition will be listed as calendar days.

Academic Probation

Any student whose GPA for any semester is below 2.00 (on a 4.00 scale) or whose cumulative D.M.D. program GPA is below 2.00 at the end of any semester shall be considered on academic probation. Students on academic probation are subject to the Academic Dismissal policies of the School of Dentistry.

Academic Dismissal

1. Authority to dismiss students from the School of Dentistry rests with the dean. Any student who fails to meet the standards of academic progress listed in this section of School of Dentistry policies may be dismissed for academic reasons. The Student Academic Review Committee has the responsibility for monitoring student academic progress, and recommending to the Dean the dismissal of any student who does not make satisfactory academic progress through the curriculum. The SARC shall not recommend the dismissal of any student until the student has been provided an opportunity for a hearing before the SARC.
2. Students whose level of academic achievement falls below the standards of academic progress set forth below will be scheduled for an academic dismissal hearing before the Student Academic Review Committee to be considered for dismissal. A student will be considered for dismissal if:
   a. The student's cumulative GPA is below 1.65 at the end of the first semester; or
   b. The student's cumulative GPA is below 2.00 at the end of the second semester; or
   c. The student earns 8 semester hours of F during a single semester; or
   d. The student is on academic probation for two of three consecutive semesters; or
   e. The students fails the same required course two times.
3. In addition, the Student Academic Review Committee may recommend to the dean the dismissal of any student on academic probation. Prior to such a recommendation, any student being considered for dismissal has the right to a hearing before the Student Academic Review Committee.
4. The dean may implement the SARC's recommendation or modify the recommendation. The dean may dismiss the student or continue the enrollment of the student as a regular student, a special student on an altered curriculum, or as a student on academic probation. The dean shall advise the student in writing of his/her decision within 5 days of receiving the written recommendation of the SARC. The Dean's decision is final for the School of Dentistry.

Appeal of Dismissal

A student may appeal the dean's dismissal decision to the president of the Medical College of Georgia. A decision by the president may be appealed to the Board of Regents in accordance with board policy.

Readmission

Any student who is dismissed or who withdraws from the School of Dentistry may apply to the Student Admissions and Recruitment Committee for re-admission as a first year student by submitting a regular application for admission and following standard admission procedures. No re-enrollment with advanced standing will be permitted except under the provisions of the School of Dentistry's Leave of Absence policy

Graduation

Successful completion of all requirements leads to the D.M.D. degree. Approval to graduate rests with the Dean. Graduation requirements are:

1. A minimum of 11 semesters in residence;

2. Completion of the curriculum within 16 semesters in residence, effective with the graduating class of 1996 except that students in the D.M.D./M.S. and D.M.D./Ph.D. programs may request a waiver of the 16 semester rule from the dean.
3. Passing grades in all required courses;
4. Overall grade point average of 2.00 or higher;
5. Satisfactory completion of all clinical services;
6. Passing Part I and Part II of the National Board Dental Examination;
7. Return of assigned institutional property and equipment in acceptable condition;
8. Payment of all outstanding financial obligations to include tuition and all required student fees.
9. Completion of all assigned course and instructor evaluations including all clinical course and instructor evaluations.

Leave of Absence Policy

1. Emergency leaves of absence can be arranged with the associate dean for students and alumni affairs for up to 10 working days. All missed work must be made up.
2. Any student enrolled in the School of Dentistry may request from the dean an extended leave of absence for cause. The purpose of this policy is to provide a mechanism by which students can re-enroll in the School of Dentistry after they return from an extended leave of absence. Leaves of absence longer than 10 working days (including accidents and illinesses) will be considered extended leaves and must fully comply with this policy. Failure to follow this policy in full will result in the student's re-enrollment conditions being stipulated by the SARC without any recourse or appeal being available to the student. Any student granted an extended leave must officially withdraw from the Medical College of Georgia in keeping with institutional policies.

Students taking a leave of absence will re-enter the curriculum no later than the point at which the leave began, and students may be required to repeat a portion of the curriculum. Students on leave from the School of Dentistry for more than one calendar year may be required to repeat all or a significant portion of the curriculum.

Student Academic Grievances Policy

The following policy relative to academic grievances shall be applicable to all predoctoral students enrolled in the Medical College of Georgia School of Dentistry.

1. Grounds for Grievances
   A student may file an academic grievance if he/she feels one of the following grounds apply:
   a. grading was not in accordance with published course grading policy;
   b. grading was arbitrary or capricious;
   c. grading was determined on the basis of race, disability, gender, ethnicity or religious affiliation.
2. Academic Grievance Procedures
   Any student who has a grievance should attempt to resolve it with the faculty member involved. If the problem is not resolved, the student should then meet first with the appropriate course director. If the problem is not resolved at this level, the student should meet with both the course director and the department chairman. If the problem is still not resolved, the student may request that the grievance be heard by the Student Academic Review Committee citing one or more of the grounds listed above. The chairman of the Student Academic Review Committee must receive written notification of the grievance within 15 school days of the incident which prompts the grievance. An investigative subcommittee composed of the vice chairman of the SARC and one other member of SARC will be appointed by the chairman of the committee to determine whether or not the grievance should be heard by the full dommittee. If the grievance is heard by the dommittee, a recommendation will be made to the Dean whose decision shall be final for the School of Dentistry. The student has the right to appeal the decision of the dean to the president of the Medical College of Georgia.

Licensure Examinations

Graduates (D.M.D.) of the Medical College of Georgia School of Dentistry are eligible for examination by all U.S. dental licensing boards.

Special Degree Programs

Combined Master of Science Degree or Doctor of Philosophy Degree in Oral Biology and Doctor of Dental Medicine Degree (D.M.D.)

For the student with a particular interest in life sciences, these combined degree programs provide opportunities to obtain a research-based degree along with the D.M.D. degree. These programs are available to accepted dental students. For the M.S./D.M.D. program, the degree candidate must spend approximately one additional year between the second and third years of dental school in full-time graduate studies. For the Ph.D./D.M.D. program, the degree candidate will spend approximately three additional years between the second and third years of dental school in full-time graduate studies. During the time of full-time graduate studies, the candidates will perform original research, complete additional course work and write their research thesis. Permission to enter these joint degree programs must be granted by the dean of the School of Graduate Studies and the dean of the School of Dentistry. Applicants must be enrolled in the School of Dentistry, be in good academic standing and be progressing satisfactorily in clinical requirements. The requirements for the combined degree programs are essentially those of the individual degree programs. Further information on these programs can be obtained by writing:

Chairman, Department of Oral Biology
Medical College of Georgia
School of Dentistr
Augusta, Georgia 30912.

Advanced Education Programs (Dental Residency Programs)

The Advanced Education Programs provide dentists with additional educational experience in the biological and clinical sciences relevant to specialty and general practice disciplines. This experience enables the resident to provide care for complex cases requiring treatment by a specialist. Residents gain additional experience in dental research and education. Successful completion of an advanced education program leads to a certificate. A master's degree in oral biology option is available through the School of Graduate Studies. Completion of the advanced education program meets the educational qualifications for examination by the appropriate dental specialty board. Further information on these programs can be obtained by writing:

Office of Advanced Education
AD–1114A
Medical College of Georgia
School of Dentistry
Augusta, Georgia 30912

Endodontics

Dr. Robert Loushine, *Program Director*

The major objective of the residency program is to provide postgraduate training in endodontics and to fulfill the specialty requirements of the American Dental Association, the American Association of Endodontists and the American Board of Endodontics. This is done through in-depth study of pertinent areas of basic science and correlation of the patho-physiologic processes with clinical problems encountered in endodontics. The resident becomes familiar with the problems of a differential diagnosis and treatment of pathosis of pulpal origin, is provided clinical experiences in routine and complicated procedures encountered in endodontics and is provided training and experience in research design and methodology. The program permits flexibility to adapt to individual experiences and objectives for career development.

Oral and Maxillofacial Surgery

Dr. Allen Sisk, *Program Director*

Advanced education in oral surgery is a four-year certificate postdoctoral program satisfying the educational requirements of the American Board of Oral and Maxillofacial Surgery. The study of the biomedical sciences as they relate to oral surgery are presented

throughout the four years in regular weekly instructional courses, conferences and seminars and during rotations on medicine, anesthesia, surgery, trauma and neurosurgery services. Residents are engaged in a research or publication project culminating in a report suitable for publication.

Orthodontics

Dr. Edward Hamilton, *Program Director*

This 30-month graduate/residency program fulfills the specialty educational requirements of the American Dental Association and the American Board of Orthodontists, and the requirements of the School of Graduate Studies for the master of science degree. The 45-hour graduate curriculum includes an original research project and defense of a master's thesis. The residency curriculum consists of a nucleus of orientation courses given annually and supplementary courses repeated biennially. Experience is provided in the Edgewise and Straight Wire appliance system. The program emphasizes critical analysis of the literature, differential diagnosis, technical excellence and critical evaluation of treatment results. Interdisciplinary patient management is provided in cooperation with other residency programs. Successful candidates will be awarded a master of science degree in oral biology and a certificate in orthodontics.

Pediatric Dentistry

Dr. Steven Adair, *Program Director*

The advanced program in pediatric dentistry is a two-year certificate program which satisfies the requirements of the American Board of Pediatric Dentistry. The program emphasizes clinical treatment of outpatients and hospitalized inpatients. Study of the biomedical sciences as they relate to pediatric dentistry is presented throughout in regular weekly instructional courses, conferences and seminars, and during rotations on pediatric and anesthesia services. A research project culminating in a report suitable for publication is required.

Periodontics

Dr. Philip J. Hanes, *Program Director*

The residency program in periodontics is a 36-month certificate program which provides the postdoctoral student with the biological and scientific background to treat periodontal disease on a rational basis. Students become thoroughly familiar with the periodontal literature and receive broad clinical experiences in examination, treatment planning and all accepted modes of treatment of periodontal diseases. A research project culminating in a M.S. degree in oral biology and a report suitable for publication is required. Hospital dentistry and a varied patient population are provided through affiliation with the Medical College of Georgia Hospital and Clinics and Department of Veterans Affairs Medical Center Dental Service. The periodontal residency program is accredited by the Council on Accreditation of the American Dental Association and its graduates are qualified to take the examination of the American Board of Periodontology.

Prosthodontics

Dr. J. Michael Gardner, *Program Director*

The postdoctoral program in combined prosthodontics is a three-year program which includes fixed and removable prosthodontics, implant prosthodontics, maxillofacial prosthodontics and temporomandibular dysfunction therapy. There is a strong emphasis on complete mouth rehabilitation and occlusion. Formal courses throughout the program present the basic and clinical sciences relative to the discipline and specialty. Upon completion of the program, a certificate in prosthodontics is awarded. The student is educationally qualified to apply for the American Board of Prosthodontics certifying examination.

The student also may apply to the School of Graduate Studies for the M.S. in oral biology or M.S. in health education.

General Practice

Dr. James W. Curtis, Jr., *Program Director*

This program provides postdoctoral education in clinical dentistry and applied basic sciences. The program emphasizes the management of medically compromised patients in a hospital environment. In addition to general dentistry, the general-practice resident has

rotations in internal medicine, anesthesia, emergency medicine and oral surgery. Seminars and courses of special interest are regularly scheduled. Approximately 70 percent of the program is devoted to clinical dentistry. Upon successful completion of the program, residents receive a certificate.

Graduate Programs

Information regarding the M.S. in oral biology, Ph.D. in oral biology, or M.S. in health education-dental major can be obtained from the School of Graduate Studies.

Course Descriptions

Numbers in parentheses show average weekly lecture, laboratory, clinic hours. The fourth number indicates credit hours. Courses marked with asterisks are electives.

Interdepartmental

CLK 5901. Clerkship (0-0-40-4)
This provides three weeks of clinical experience in off-campus ambulatory-care dental facility. Student applies clinical skills in the delivery of primary dental care for diverse populations of patients.

CPR 5001. Basic Cardiac Life Support (CPR) (3-4-0-1)
A Basic Cardiac Life Support Healthcare Provider course according to the standards established by the American Heart Association. In addition, MCG Emergency Medical Protocol is reviewed.

CPR 5002. Basic Cardiac Life Support (CPR) (2-4-0-1)
A Basic Cardiac Life Support Healthcare Provider course according to the standards established by the American Heart Association. In addition, MCG Emergency Medical Protocol is reviewed.

DAE 5001. Dental Assisting Elective* (1-0-3-)
Acquaints first-year students with basic dental assisting skills which the student will subsequently need to teach auxiliaries. Students also observe and assist third-and fourth- year dental students. These experiences familiarize students with protocols and procedures they will utilize in the future.

DIS 5901. Independent Study Clinic* (0-0-30-2)
Clinical patient care experience.

ETH 5000. Ethics for Health Professionals (3-0-0-1)
Prevailing philosophies and basic ethical principles will be presented and legal issues common to allied health professionals will be discussed. Clinical application of ethical theory and ethico-legal decision making will be emphasized. Each of the departments will provide profession-specific content for discussion and application with their students.

ETH 5001. Ethics, Jurisprudence and Dentistry (1-0-0-1)
Introduction to structure and information necessary to recognize and assess significant ethical and legal issues in practice. Lectures and discussion cover analytical techniques from ethics and law and the content of ethical standards found in the statements of the profession and the law.

GER 5901. Geriatric Dentistry Outreach Elective* (0-0-4-2)
This elective course provides senior dental students the opportunity to render primary dental care to geriatric and other special populations in a variety of selected extramural ambulatory or long term care facilities, and to become familiar with barriers to such care and solutions to the problem.

IMPL 5001. Introduction to Oral Implantology (1-0-0-1)
Lecture course introducing basic concepts and principles related to dental and oral implantology. Topics include historical perspectives, implant biomaterials and devices, principles of placement, reconstruction and maintenance, current problems, controversies and research directions.

IPS 5901. Introduction to Patient Services (0-0-4-6)
Introduces sophomore dental student to routine patient care. Covers clinical disciplines of oral diagnosis/treatment planning, periodontics and restorative dentistry. Students carry out oral/physical examinations, history-taking and other diagnostic procedures indicated for patients appointed to the Oral Diagnosis/Treatment Planning block. Students develop treatment plans for these patients. In the Periodontics block, students learn to examine periodontal structures of patients, record their findings, plan and satisfactorily treat patients with gingivitis and demonstrate proficiency in periodontal scaling and polishing techniques. The Restorative block is designed to develop clinical judgment, patient management and manual skills by completing a variety of direct restorative procedures in a closely supervised clinical environment. In these clinical activities, students can practice the principles previously presented in didactic courses. Students may also receive experience in occlusal analysis and complete denture prosthodontics as warranted by patient needs. In scheduled clinical seminars, students share learning experiences.

ISEM 5001. Interdisciplinary Seminar (4-0-0-1)
Exposes students to nationally renowned dental experts. Dental leaders in education, research and private practice are invited to present state-of-the-art material.

MB 5901. Mock Boards (4-0-4-2)
Prepares students for the regional dental board examination, required for Georgia licensure. Course includes 17 hours of lecture and lab preparation time before three-day mock board examinations which closely simulates the current regional dental board examination in didactic, laboratory and clinical components.

NBR 5001. National Board Review* (4-0-0-1)
Review Session for Part II National Boards (Oral Rehab, Oral Surgery, Pharmacology, Endo, Epidemiology, Statistics, OSHA Standards, Oral Path)

NSO 5001. New Student Orientation (8-4-0-1)
One credit hour, 12 contact hour pass/fail course for first-year dental students to acquaint them with student services at the Medical College of Georgia, financial aid policies, the goals of dental education and policies applicable to students in the DMD curriculum.

ORP 5001. Orientation to the Profession and Ethics (1-0-0-1)
Orients new dental student to dentistry from a perspective of public health and community dentistry. Emphasizes participation. Classroom activity provides background for field experiences, workshop discussion, assigned readings and formal presentations.

PM 5911. Patient Services* (0-0-30-1)
Additional opportunity to provide patient care.

PSE 5901. Patient Services Elective* (0-0-4-2)
Additional educational opportunities to provide patient care and help other students provide patient care.

PSE 5902. Patient Services Elective* (0-0-4-1)
Additional educational opportunities to provide patient care and help other students provide patient care.

RHO 5901. Rural Health Outreach* (0-0-4-2)
Elective enables senior dental students to deliver primary dental care in a rural setting and become familiar with the barriers to such care and solutions to the problem.

STAT 5001. Statistics, Epidemiology and the Scientific Method (1-0-0-1)
Core principles of quantitative thinking presented and applied to examples and special problems in the biomedical literature. Teams of three students critically review a biomedical journal article. The team presents the review to the class and answers questions from faculty and classmates. The atmosphere is relaxed, mindful that most students have not had this experience before. Emphasizes broad concepts rather than methodological details. Special lectures presented on topics of current interest in research or clinical practice.

TMR 5001. Talbot Marsh Rotation* (24-0-0-1)
Elective offers two-day, in-depth association of dental students with staff and clients undergoing recovery at Talbot Marsh Recovery Center. The Talbot Marsh Recovery Campus is recognized nationally as the model for extended inpatient and outpatient treatment of chemical dependency with more than 17 years of experience in treating some 6,000 health professionals. The campus offers an in-house treatment program, an evaluation/assessment program and a follow-up care/discharge planning program for impaired health professionals.

VOD 5001. Vocational Opportunities In Dentistry (4-0-0-1)
Seminar course emphasizing opportunities in dentistry.

Endodontics

ENDO 5001. Fundamentals of Endodontics (1-4-0-3)
Introduction to endodontics through lecture sessions and laboratory projects. Teaches competence in performing endodontic procedures on extracted teeth. The student then will be scheduled in the Endodontic Block Clinic for endodontic treatment on extracted teeth mounted in the endodontic dentiform (endodontic simulations).

ENDO 5002. Endodontic Seminar (1-0-0-1)
Covers alternative endodontic techniques, endodontic surgery, rationale for case referral and endodontic apexification. Students also introduced to the endodontic literature with assignments of written reports of articles in the Journal of Endodontics.

ENDO 5901. Endodontic Clinic (0-0-0-1)
Student completes Diagnostic Testing Exercise which includes performing endodontic diagnostic testing on a classmate and performing simulated clinical procedures on non-molar extracted teeth mounted in the Endodontic Dentiform. Student performs simulated clinical endodontic procedures on extracted molar teeth mounted in the Endodontic Dentiform.

ENDO 5902. Endodontic Clinic (0-0-0-2)
This course consists of the performance of endodontic procedures that are indicated for patients.

Oral Biology and Maxillofacial Pathology

OBMP 5001. General and Oral Microanatomy (5-1-0-6)

Didactic information and laboratory experiences related to the microscopic appearance and functional correlates of cellular, subcellular and extracellular structures of the primary tissues, organs and organ systems of the human body. Emphasizes structure and function of tissues of the oral cavity, and the correlation of basic science information to various aspects of clinical dentistry.

OBMP 5002. Applied Head and Neck Anatomy (3-3-0-5)

Lectures correlate the anatomical information learned in the laboratory to clinical problems, and also tie the regional approach of laboratory anatomy to systemic physiological anatomy. Students dissect the head and neck region. Models and movies of prosected material supplement dissection. Clinical experiences that deal with physical examination of the head and neck as it relates to learned anatomical knowledge included.

OBMP 5003. Neuroscience (4-1-0-3)

Didactic information and laboratory experiences emphasizing structural and functional anatomy and functional physiology of the nervous system. Presents clinical importance of a neurological examination along with case studies that show how selected lesions produce changes in neurologic function. In addition, basic science information is correlated to the clinical presentation of selected neuropathies of importance to clinical dentistry.

OBMP 5004. Systemic Anatomy (1-3-0-3)

Anatomical organization of the axilla, thorax, abdomen, pelvis, and upper and lower extremities are presented in lectures and laboratory dissection format aided by study of models and view of prosection videos. Radiological interpretation of the body system, clinical correlation conferences, emphasis on correlation between systemic anatomy and systemic pathology.

OBMP 5101. Biochemical Basis of Oral Health and Disease (6-0-0-6)

Covers structure, biosynthesis and metabolism of cellular macromolecules. Discusses clinical consequences of systemic metabolic disorders on dental health and patient management. Includes processes of biomineralization of the teeth and development and maintenance of the periodontium as well as regulatory mechanisms of associated metabolic pathways.

OBMP 5102. Molecular Biology of Craniofacial Development (2-0-0-2)

Integrated course provides an understanding of early developmental processes emphasizing craniofacial development and concepts required for the transfer of genetic information. Covers recent advances in genetic engineering and biomimetics and their potential applications in dental health management.

OBMP 5201. Physiological Foundation for Dental Practice I (4-0-0-4)

First part of an integrated introduction to human physiology, emphasizing principles and concepts relevant to dental practice. Material provides basic foundation in physiology and ranges from molecular interactions to organismic behavior. Includes contraction and hypersensitivity of muscles of mastication; nervous reflexes associated with salivary secretions and mandibular movements; innervation and circulation in dental pulp; hemodynamic mechanisms of syncope; tissue distribution and renal handling of fluoride; respiration in the normal and medically compromised patient; the importance of the respiratory system in N_20 sedation used in dentistry.

OBMP 5202. Physiological Foundation for Dental Practice II (4-0-0-2)

Covers secretory functions of the alimentary tract including formation of saliva and its role in maintaining oral health; factors affecting the gastrointestinal absorption and effects of fluoride; special senses including ocular, aural and olfaction problems common in dental patients; effects of thyroid gland dysfunction on dental treatment; calcium homeostasis and loss of alveolar bone in edentulous patients; oral health complications of diabetes mellitus; and female hormones and pregnancy gingivitis.

OBMP 5301. Oral Microbiology and Infectious Disease I (3-0-0-3)

Provides information on microbiology and immunology including microbial physiology, metabolism, genetics and mechanisms of pathogenesis and basic principles of immunology and immunological responses. An understanding of these fundamental processes are critical to students' understanding of oral health and disease.

OBMP 5302. Oral Microbiology and Infectious Disease II (3-0-0-3)

Covers pathogenesis, clinical features and diagnosis of bacterial, viral, rickettsial and mycotic infections, particularly those which present with oral manifestations.

OBMP 5303. Cariology (3-0-0-2)

Integrated study of multifactorial aspects of dental caries, including theories of caries etiology, epidemiology, molecular pathology, microbiolgical and biochemical composition of dental plaque, host and nutritional influences on pathogenicity. Discusses approaches to caries prevention including immunization, fluoridation, antimicrobial agents and sugar substitutes.

OBMP 5401. Pharmacology and Therapeutics for Dental Practice I (1-0-0-1)

Introduction to dental therapeutics for students prior

to their early clinical experiences.

OBMP 5402. Pharmacology and Therapeutics For Dental Practice II (5-0-0-5)
Covers basic applied pharmacology and therapeutics as they relate to a general dental practice.

OBMP 5403. Dental Pharmacology Seminar (1-0-0-1)
Seminar review and update of pharmacologic topics specifically directed toward the National Board Part II examination.

OBMP 5501. Applied Pathology for Dentistry (5-0-0-5)
Lectures and clinico-pathological conferences on the basic principles of disease and relevant histopathology. Emphasizes mechanisms underlying alterations at the cell and subcellular levels. Covers parameters of cell injury, inflammation immunopathology, repair and regeneration, carcinogenesis, hemodynamic disturbances, genetic and metabolic disorders and nutritional diseases.

OBMP 5502. Clinical Pathology Conferences (2.5-0-0-2)
Emphasizes clinical aspects of disease, enabling students to correlate fundamentals of pathology to the clinical practice. Clinicopathologic conferences help students establish a differential diagnosis based on the presented problem. Course conducted on problem-solving format.

OBMB 5503. Oral Pathology I (5-0-0-2)
Examines the etiology and pathogenesis of oral and paraoral disorders/lesions. Includes various disease processes including developmental, inflammatory, metabolic, neoplastic, mucocutaneous disorders and oral manifestations of systemic disorders. Lectures coupled with clinicopathological conferences emphasizing development of differential diagnosis and establishment of a final diagnosis.

OBMB 5504. Oral Pathology II (5-0-0-3)
Examines the etiology and pathogenesis of oral and paraoral diseases and is the second of two courses in basic oral & maxillofacial pathology. Includes soft tissue tumors, hematologic disorders, bone pathology, odontogenic cysts and tumors, dermatologic diseases, oral manifestations of systemic disease, facial pain and neuromuscular diseases and forensic dentistry. Lectures coupled with clinicopathologic conferences emphasizing development of a differential diagnosis and establishment of a final diagnosis.

OBMB 5505. Clinical Oncology (1-0-0-1)
Lectures and clinico-pathologic conferences emphasizing diagnosis and management of malignant and benign neoplastic lesions of the oral/perioral regions. Clinicopathologic conferences are integrated to establish differential diagnosis for lesions of oral/perioral regions as well as oral manifestations of systemic neoplasms.

OBMP 5601. Bioclinical Seminar I (1-0-0-1)
Introduction to clinical cases that apply relevant current and previously presented basic science concepts. The learning issues raised by each clinical case are identified, searched and presented by students in a problem-based learning format.

OBMP 5602. Bioclinical Seminar II (1-0-0-1)
Introduction to clinical cases that apply relevant current and previously presented basic science concepts. The learning issues raised by each clinical case are identified, searched and presented by students in a problem-based learning format.

OBMP 5603. Special Topics in Oral Biology (3-0-0-2)
Interdisciplinary course designed to highlight, through review information, quizzes, directed self-study and practice National Board questions, biological science topics emphasized on Part I of the National Boards.

Oral Diagnosis and Patient Services

EDS 5901. Emergency Dental Services (0-0-20-1)
Provides experiences necessary to be competent in preventing and managing dental emergencies which may be encountered in dental practice. The service permits each student to obtain experience in managing most dental emergencies including pulpal and periodontal origin, the control, management and/or prompt referral of dental emergencies of traumatic origin and those resulting from treatment failures.

EDS 5902. Emergency Dental Services (0-0-20-1)
Provides experiences necessary to be competent in preventing and managing dental emergencies which may be encountered in dental practice. The service exposes each student to most dental emergencies including those of pulpal and periodontal origin, traumatic origin and those resulting from treatment failures.

OMD 5001. Principles of Personal Prevention (1-0-0-1)
Covers concepts necessary to understand the relationships between personal preventive measures and a healthier life.

OMD 5002. Oral Diagnosis I (1-0-0-1)
Introduction to oral physical examination and collection of diagnostic data. Introductory patient management in the clinic. Introduction to the MCG patient chart and charting policies.

OMD 5003. Nutrition (1-0-0-1)
Students practice various aspects of nutritional counseling with patients. Covers major nutritional problems encountered in the clinical practice of dentistry.

OMD 5004. Oral Medicine: The Medically Compromised Patient (3-0-0-3)
Covers diagnosis and treatment of primary and secondary diseases involving the oral and paraoral structures. The practice of oral medicine includes applying knowledge of pathophysiology of disease, pharmacotherapeutics and dental sciences, which leads to diagnosing, managing the condition and maintaining the patient's health. Reviews the etiology, pathogenesis and medical management of systemic diseases with implications in dental practice and focuses on the dental and oral health management of these patients. This includes coordination of care with other involved health care providers.

OMD 5005. Oral Medicine (1-0-0-1)
Presents methods to assess and manage the oral soft tissue pathology, mucosal diseases and oral manifestations of systemic disease clinicians are likely to encounter in a general dental practice. Develops basic concepts of differential diagnosis to rank probable diagnoses and presents appropriate methods of therapy. Applies knowledge gained in oral pathology, pharmacology and systemic pathology to clinical situations.

OMD 5006. Senior Oral Medicine Case Presentations (4-0-0-1)
Each student selects a patient in the junior year and documents the senior oral medicine case. The patient is carried through to completion of treatment. The student presents the completed case with complete documentation to classmates and faculty in the 11th semester.

OMD 5901. Oral Medicine Clinic (0-0-0-1)
Teaches clinical techniques of oral physical examination, collection of diagnostic data, treatment planning and patient management.

OMD 5902. Oral Medicine Clinic (0-0-0-1)
Continues training in clinical techniques of oral physical examination, collection of diagnostic data, treatment planning and patient management.

OMD 5903. Oral Medicine Clinic (0-0-0-2)
Continues training in clinical techniques of oral physical examination, collection of diagnostic data, treatment planning and patient management.

OMTP 5001. Treatment Planning I (2-0-0-1)
Presents principles of oral diagnosis and introduces planning comprehensive treatment for patients.

OMTP 5002. Treatment Planning II (1-0-0-1)
Teaches basics of treatment plan presentation. Discusses patient management, communication skills and aids frequently used in case presentation.

PM 5901. Patient Services (0-0-0-1)
Series of Patient Services courses teach students to utilize clinic time effectively and professionally manage patient records, oral disease and infection control.

PM 5902. Patient Services (0-0-0-1)
Series of Patient Services courses teach students to utilize clinic time effectively and professionally manage patient records, oral disease and infection control.

PM 5903. Patient Services (0-0-0-1)
Series of Patient Services courses teach students to utilize clinic time effectively and professionally manage patient records, oral disease and infection control.

PM 5904. Patient Services (0-0-0-1)
Series of Patient Services courses teach students to utilize clinic time effectively and professionally manage patient records, oral disease and infection control.

RADD 5001. Radiology (2-2-0-2)
Introduction to radiological interpretation of normal anatomy, caries, periodontal disease and periapical disease. Laboratory portion includes radiographic exposure techniques, film processing and film mounting.

RADD 5002. Dental Radiologic Interpretation (2-0-0-2)
A comprehensive course in radiologic interpretation of developmental and pathologic lesions of the jaws and associated structures.

Oral Rehabilitation

DAU 5001. Introduction to Operatory Procedures (4-4-0-1)
Lectures on the care and maintenance of dental equipment, operation of dental operatory equipment, chair, patient and operatory positions; instrument sterilization rationale and procedures; and basic interpersonal skills.

DAU 5002. Principles and Practice of Small Business Administration (2-0-0-2)
Introduction to the Principles and Practice of Small Business Administration. Provides understanding of the business side of dentistry. Covers selection of a practice area, designing the dental facility, equipping the dental office, borrowing money to finance the new practice, producing pro-forma financial documents, principles of cost and revenue, contract agreements, leasing dental equipment, bookkeeping and patient record forms, interviewing and staff selection, and business management accounting systems.

DAU 5003. Principles and Practice of Small Business Administration (8-2-0-3)
Provides a working knowledge of marketing, dental jurisprudence, legal aspects of business, tax reports, retirement planning, personal financial management, money management, dental records, third party payments, management of cash flow and budgeting, appointment control, recall systems, referral policy, the welcome letter, evaluating the practice, dental practice accounting, money management, projects and case illustrations, as they relate to the private practice of dentistry.

DAU 5901. Dental Practice Dynamics Clinic (0-0-0-1)
Clinical course designed to meet transitional practice needs of each student. Time spent in areas of auxiliary utilization, four-handed sit-down dentistry, interpersonal skills, practice management, time management and orientation to the private practice.

DPS 5001. Dental Materials (2-0-0-2)
Acquaints third-year student with characteristic properties of polymers, ceramics and metals as they relate to the science of materials engineering. These material concepts are related to their clinical applications, providing the ability to discern differences between material failure and technique problems, and providing a basis for rational selection of restorative dental materials.

GER 5001. Introduction to Geriatric Dentistry (1-0-0-1)
Introduction to theories, related changes and special challenges of the aging process. Topics include demography and epidemiology, root surface caries, special pharmacological considerations, sensory deficits and functional declines, psychosocial issues, dementia, treatment planning and management for the frail, functionally dependent and biologically compromised older adult.

OCC 5001. Dental Anatomy and Occlusion (3-6-0-6)
Introduction to morphology of primary and permanent dentition. Tooth arch traits, type traits, specific developmental and eruption features, as well as anomalies, stressed for both primary and permanent dentitions. Presents preliminary overview to gross structures of the masticatory system, periodontal anatomy, internal root anatomy and comparative dental anatomy. Knowledge from didactic learning of arch traits and type traits are then applied to wax carving of selected teeth in the permanent dentition on a dentoform.

OCC 5002. Occlusal Analysis (2-6-0-3)
Lectures, laboratory and clinical procedures involved in making impressions and mounted diagnostic casts, in determining the functional status of the natural dentition and in performing an occlusal adjustment.

OCC 5003. Diagnosis and Treatment of Temporomandibular Disorders (1.5-0-0.5-2)
Introduction to screening, diagnosis and treatment of temporomandibular disorders. Provides laboratory fabrication and delivery of a "centric relation," full arch coverage occlusal splint.

OCC 5901. Occlusion Clinic (0-0-0-1)
Enables student to develop diagnostic and treatment skills in occlusion and temporomandibular disorders. Reinforces and reviews principles learned in previous didactic courses by requiring their application in clinical situations likely to be encountered by general dentists.

OCC 5902. Occlusion Clinic (0-0-0-1)
Enables student to develop diagnostic and treatment skills in occlusion and temporomandibular disorders. Reinforces and reviews principles learned in previous didactic courses by requiring their application in clinical situations likely to be encountered by general dentists.

PRO 5001. Preclinical Complete Dentures (2-6-0-7)
Lecture and laboratory sessions on philosophy and techniques of fabricating complete dentures. Material includes oral examinations, preliminary and final impressions, maxillomandibular records, denture tooth selection, factors and philosophies of denture occlusion, setting teeth in a non-balanced and a balanced lingualized occlusion, verifying maxillomandibular records, denture processing, correction of processing errors, completion and insertion of complete dentures and effective cusp angles.

PRO 5002. Removable Partials (2-6-0-5)
Laboratory technique course stresses fundamentals of proper RPD design and fabrication. Emphasizes examination, diagnosis, sequential treatment planning and mouth preparation including occlusal modification to assure optimal stability and occlusal harmony of the RPD(s) in function.

PRO 5003. Complete Dentures (1-1-2-3)
Extends previously taught didactic and laboratory procedures to the clinic. A complete maxillary and mandibular denture is fabricated for an edentulous patient, emphasizing correlating for the patient's biological milieu with the clinical aspects of complete prosthodontics.

PRO 5004. Advanced Prosthodontics (2-2-0-3)
Utilizes concepts from earlier courses as a starting point. Rounds out and completes students' prosthodontic experience.

PRO 5901. Prosthodontic Clinic (0-0-0-2)
Student examines patient requiring removable prosthodontic care. Student then designs, constructs and inserts two units of removable prosthodontics, under faculty supervision, by the posted semester insertion deadline.

PRO 5902. Prosthodontic Clinic (0-0-0-2)
Student examines two patients requiring removable prosthodontic care. Student then designs, constructs and inserts four units of removable prosthodontics, under faculty supervision, by the posted insertion deadline.

PRO 5903. Prosthodontic Clinic (0-0-0-2)
Student completes three additional units of removable prosthodontics and an RPD recall of a patient not assigned to an MCG student. This will bring the total number of units completed by the student to nine. All nine units must also be FINAL EVALUATED by an appropriate faculty member.The nine units must con-

sist of: 1. Two sets of COMPLETE DENTURES (four units) completed under faculty supervision. 2. A TEST CASE consisting of one set of complete dentures (two units) completed with minimal faculty supervision. 3. Two REMOVABLE PARTIAL DENTURES (two units), one of which must be a mandibular Class I or Class II design, completed under faculty supervision.4. An ELECTIVE (one unit) which may be either a single complete denture or a removable partial denture, an overdenture, an immediate denture, opposing transitional dentures; or, a reline or a rebase for a recall removable prosthesis. All completed under faculty supervision. These units must be inserted by the posted semester insertion deadline. 5. If the school cannot provide an adequate number of complete denture patients, the student may substitute two units consisting of a maxillary complete denture opposed by a mandibular Class I RPD for one of the complete dentures listed in number one (above). This option may not be selected for a test case.

RES 5001. Operative Dentistry (2-6-0-6)
Principles and techniques of conservative cavity preparation and restoration of teeth with silver amalgam and esthetic restorative materials. Laboratory treatment of simulated permanent teeth and extracted human teeth teaches basic restorative concepts.

RES 5002. Fixed Prosthodontics I (1-3-0-5)
Introduction to principles and techniques encountered in teeth and subsequent fabrication and delivery of gold castings and provisional restorations for posterior single-tooth restorations, as well as preparing posterior teeth for a cast gold fixed partial denture.

RES 5003. Fixed Prosthodontics II (2-6-0-5)
Lecture and laboratory segments discussing fundamentals of abutment preparation, retainer and pontic design for fabrication of fixed partial prostheses and single units in all metal and ceramic veneers on vital and endodontically treated teeth.

RES 5004. Fixed Prosthodontic Seminar (1-0-0-1)
Stresses coordinating laboratory and preclinical experiences with increasing clinical experience in fixed prosthodontics.

RES 5005. Esthetic Restorative Dentistry (1-3-0-3)
Exposure to special didactic and clinical requirements of esthetic restorations such as all-ceramic full-coverage crowns, porcelain veneers, direct posterior composites, custom characterization and glazing of porcelain restorations, and vital bleaching procedures. In addition, students evaluate and document esthetic needs of patients using Smile Analysis and intra-oral photography. Periodontal considerations for esthetic rehabilitation reviewed and include mucogingival and edentulous ridge modification procedures. Treatment rationale and criteria presented so student can successfully develop a comprehensive esthetic treatment plan.

RES 5006. Restorative Seminar (1-0-0-1)
Reviews advances and research in restorative materials and techniques.

RES 5901. Restorative Clinic (0-0-0-5)
Offers student clinical experience and skill in a variety of restorative procedures. The clinical program allows student to demonstrate clinical knowledge and technical skill in an independent evaluation format.

RES 5902. Restorative Clinic (0-0-0-5)
Students provide variety of restorative procedures to patients in supervised comprehensive clinical environment. Procedures include direct composites and amalgams and indirect crown and bridge.

RES 5903. Restorative Clinic (0-0-0-7)
Students provide variety of restorative procedures to patients in supervised comprehensive clinical environment. Procedures include direct composites and amalgams and indirect crown and bridge.

RES 5904. Restorative Clinic (0-0-0-7)
Students provide variety of restorative procedures to patients in supervised comprehensive clinical environment. Procedures include direct composites and amalgams and indirect crown and bridge.

Oral and Maxillofacial Surgery

OSD 5001. Local Anesthesia (1.5-0-0.5-1)
Introductory course in pain control. Presents pharmacology of local anesthesia, and clinical techniques of local anesthetic administration are covered and practiced in laboratory.

OSD 5002. Fundamentals of Oral Surgery (2-0-0-2)
Basic information necessary to complete clinical requirements in oral surgery and subsequently perform those surgical techniques within the scope of a general practitioner.

OSD 5003. Advanced Oral Surgery (1-0-0-1)
Overview of surgical techniques and procedures performed by specialists in oral and maxillofacial surgery.

OSD 5901. Oral Surgery Clinic (0-0-0-1)
Introduction to oral surgery clinical activity.

OSD 5902. Oral Surgery Clinic (0-0-0-2)
Continuation of oral surgery clinic activity.

OSD 5903. Oral Surgery Hospital Clinic (0-0-60-2)
Full-time, one-week activity introducing the student to the hospital environment, emergency care, medical consultations and management of hospitalized patients. Students are assigned to Oral & Maxillofacial Surgery service at the Medical College of Georgia where they treat oral surgery patients in the clinic, emergency room and operating room. Students become familiar with admission and discharge of

patients, hospital chart, initiating hospital orders, obtaining and providing consultations for other hospital services and presenting patients to attendings. Two students participate in the clerkship each week.

Orthodontics

ORTH 5001. Orthodontics I (1.5-0.5-0-2)
Introduction to orthodontics, providing knowledge base necessary to recognize and identify etiology of existing and developing problems associated with dental and/or skeletal malocclusions.

ORTH 5002. Orthodontics II (1.5-0.5-0-2)
Lecture and laboratory course teaching indications for and usage of various orthodontic treatment modalities. Presents basic orthodontic biomechanical principles and their application. Emphasizes management of adjunctive orthodontic procedures the student will perform in clinic. Laboratory projects provide hands-on simulation of adjunctive orthodontic techniques presented in lecture.

ORTH 5901. Orthodontic Clinic (0-0-0-1)
Predoctoral orthodontic clinical experience (ORTHO 541C) enables student to participate in treating a patient with relatively uncomplicated dentoalveolar problems, involving primarily adjunctive or interceptive orthodontic treatment.

Pediatric Dentistry

PEDO 5001. Preclinical Pediatric Dentistry (2-1-0-3)
Didactic material and laboratory techniques necessary to prepare students to diagnose, develop a treatment plan and treat the typical child patient.

PEDO 5002. Pediatric Dentistry Seminar (1-0-0-1)
Reviews, updates and expands into areas beyond those covered in the preclinical pediatric dentistry course. Covers aspects of children's dentistry including growth and development; pathology: pulp and trauma management; caries, prevention and restorative dentistry; tooth development, periodontolgy and oral surgery; child behavior; tooth eruption and diastemas; crossbites and space maintenance; occlusion, cephlometrics and serial extraction; radiology; and orthodontics and relapse.

PEDO 5003. Dentistry for the Disabled Patient (8-0-0-1)
Sensitizes dental student to needs of developmentally and physically disabled patients and provides essential information regarding their dental care.

PEDO 5901. Pediatric Dentistry Clinic (0-0-0-1)
Enables students to diagnose, develop a treatment plan and treat the typical child patient.

PEDO 5902. Pediatric Dentistry Clinic (0-0--2)
Continuation of the clinical pediatric dentistry experience enabling students to diagnose, treatment plan and treat the typical child patient.

Periodontics

PER 5001. Fundamentals of Periodontology (2-2-0-3)
Presents classification of periodontal diseases and descriptions of inflammatory periodontal diseases. Includes local etiologic factors, patient education, oral hygiene and prevention.
Lectures and laboratory exercises introduce tooth-surface hand instrumentation, history, examination, diagnosis and prognosis of patients with adult periodontal disease. Lecture and laboratory exercises concern root planing and instrument sharpening, obtaining probing attachment levels, response of the marginal periodontal lesion to instrumentation, preventive maintenance care for the treated periodontal patient, considerations in restorative and prosthetic treatment for the periodontal patient, and general principles and protocol of periodontal surgery.

PER 5002. Surgical Periodontics (1-0-0-1)
Presents the rationale, indications, contraindications and techniques of periodontal surgery. A lecture, seminar and laboratory introduces a series of surgical procedures with wide clinical application in general dental practice.

PER 5003. Contemporary Topics in Periodontology (1-0-0-1)
Lectures on surgical protocol, acute periodontal conditions, early-onset periodontitis, HIV and periodontal disease, diabetes and periodontal disease, trauma from occlusion, furcation management and periodontal regeneration. Lecture and laboratory exercises on ultrasonic instrumentation. Discusses controversies in periodontics.

PER 5004. Periodontology in a General Practice (2-0-0-2)
Reviews and updates periodontal subjects in seminar discussions emphasizing clinical application and patient care in the private practice setting. Senior dental students and dental hygienists cooperate in treating patients on a maintenance schedule. Emphasizes solving clinical periodontal problems of patients.

PER 5901. Periodontic Clinic (0-0-0-2)
Clinical course in which student, under faculty supervision, diagnoses patients' periodontal conditions and treats mildly involved cases. Emphasizes need for early treatment, effective patient-performed disease-control measures, timely dentist-provided maintenance care and the positive outcome deriving from them.

PER 5902. Periodontic Clinic (0-0-0-1)
Clinical course in which student, under faculty supervision, diagnoses patients' periodontal conditions and treats mildly involved cases. Emphasizes need for early treatment, effective patient-performed disease-control measures, timely dentist-provided maintenance care and the positive outcome deriving from them. The student is expected to make continuing progress toward fulfilling department graduation requirements.

PER 5903. Periodontic Clinic (0-0-0-2)
Student continues to meet all periodontal diagnostic, active treatment and maintenance needs of assigned patients under faculty supervision. Maintenance needs emphasized.

PER 5904. Periodontic Clinic (0-0-0-2)
Student examines patients presenting with periodontal tissues ranging from healthy to severely diseased, records the findings, diagnoses, demonstrates proficiency in planing and executing treatment for moderately involved cases to include minor surgical therapy and demonstrates satisfactory maintenance of periodontal health for all cases in which active treatment is completed.

School of Graduate Studies

Dean—Dr. Darrell G. Kirch
Associate Dean—Dr. Gary C. Bond

Philosophy

The School of Graduate Studies provides graduate education and research training for individuals desiring to pursue careers in health-sciences related disciplines. The faculty and graduate students should create an atmosphere of academic scholarship and investigation which provides graduates with high scholarship values and major skills in their disciplines. The school interacts with all faculties and also with professional students to aid in the development of scholarship in all disciplines.

Objectives

All postbaccalaureate education which is not professionally directed is the responsibility of the School of Graduate Studies. The faculty, which is selected from Schools of Allied Health Sciences, Dentistry, Medicine and Nursing, is involved in the preparation of candidates for master of science, master of nursing, master of physical therapy, master of health education and the doctor of philosophy degrees. Graduates are prepared to become leaders in their respective disciplines in research, teaching and service in academic institutions, hospitals, government service and industry.

Dean and Faculty

The dean of the School of Graduate Studies is the chief administrative officer and is responsible to the president of MCG for carrying out all academic policies of the Board of Regents, the Medical College of Georgia and the School of Graduate Studies related to graduate education.

The members of the graduate faculty are appointed from the Schools of Allied Health Sciences, Dentistry, Medicine and Nursing by the president of MCG following recommendation by the dean of the School of Graduate Studies. The Graduate Faculty Senate, through its committees and executive committee, advises the dean on all pertinent matters related to graduate education, including nominations to the graduate faculty. Program directors appointed by each degree granting department or discipline make up the Graduate Council, which is also advisory to the dean on academic policies related to the school.

Degrees

MCG is authorized by the Board of Regents of the University System of Georgia to grant the doctor of philosophy, master of science, master of nursing, master of physical therapy and master of health education degrees in approved disciplines through the School of Graduate Studies.

Application Procedures

Send or direct all application materials to the Office of Academic Admissions, Medical College of Georgia, Augusta, GA, 30912. A complete application consists of:

1. Application

A completed application form, application supplement and reference reports are required for those seeking admission to the School of Graduate Studies.

2. Transcripts

Official transcripts of all previous and cur-

rent college, graduate or professional studies. Transcripts must be signed by the registrar, contain the institutional seal, and be received directly by mail from the schools attended. International applicants will be requested to submit transcripts and academic records to an independent agency for verification and evaluation.

3. Graduate Record Examination

The General Test is required for all domestic and foreign applicants. Subject tests in biology, chemistry or computer sciences are recommended for applicants to biomedical sciences programs. MCAT and DAT test scores may be substituted for GRE scores upon approval by the dean. The GRE reporting code for the School of Graduate Studies is R5406–4. GRE scores over five years old are not acceptable. GRE scores must be received in the Office of Academic Admissions prior to the expiration month and year for the upcoming semester.

4. Three Reference Reports

(As provided in the application package) mailed directly to the Office of Academic Admissions.

5. TOEFL

The Test of English as a Foreign Language (TOEFL) is required of all foreign applicants (excluding English-speaking countries), minimum acceptable score is 600 paper-based or 250 computer-based.

6. Health Questionnaire

Upon acceptance to the School of Graduate Studies, all students must complete a health questionnaire which will be mailed to Medical Datamation. Failure to do so will prevent admission.

Admissions

Admission to the School of Graduate Studies is subject to the discretion of the dean following recommendation by the department's admissions committee. In considering admission, departments review all transcripts, reference reports, test scores and objectives of the applicant. A personal interview may also be required. Applicants should include in their application any pertinent information including reprints, experiences related to their objectives, etc. Depending on the individual program, students may be admitted to the School of Graduate Studies beginning in any one of the three semesters. Application deadlines are available from the Office of Academic Admissions.

International Applicants

Applications from qualified students of foreign institutions which are approved by the University System of Georgia are welcome. Applicants whose test scores indicate a need for additional studies in English may be required to take a program in English designated by the School of Graduate Studies at the student's expense. International applicants should arrive in this country with sufficient funds for housing, tuition and living expenses. The School of Graduate Studies has no funds for these purposes. International applicants will be requested to submit transcripts and academic records to an independent agency for verification and evaluation.

Fees and Expenses

See the General Information section for Fees and Expenses. Waivers of non-resident fees for students in the School of Graduate Studies are available, but are limited in number. Residents of Alabama, Florida, Kentucky, Louisiana, Maryland, Mississippi, South Carolina, Tennessee, Texas, Virginia and West Virginia are eligible for non-resident fee waivers through the Academic Common Market in some M.S., M.S.N and Ph.D. programs.

Financial Aid

Students should write for the Student Financial Aid Guide (see General Information section.)

Medical College of Georgia Graduate Assistantships

Graduate research and teaching assistantships are available on a competitive basis

and are administered through the dean's office to students taking a full-time program of 12 semester hours or more. Stipends from grants in individual departments for graduate training may also be available. Predoctoral training grants from federal and foundation sources should also be considered.

Scholastic Regulations

An applicant's registration and class attendance constitute an agreement on the part of the applicant to comply with the rules and regulations of the university as published in this catalog and other official publications of the university during the student's continued enrollment.

A student's continued enrollment in the School of Graduate Studies is subject to the decision by the dean and other designated officers that academic grades and progress are satisfactory, that rules of the university are being complied with and that the best interest of the school and of other students is being served.

Auditors may take graduate courses, but must secure permission of the instructor. No academic credit is allowed. Auditors pay usual tuition and fees.

Grades, Academic Performance and Progress

Satisfactory progress toward a degree in the School of Graduate Studies requires that a student maintain a minimum cumulative grade point average (GPA) of at least 2.8 for all courses attempted. Individual programs may set additional standards for satisfactory progress in courses related to the specific discipline.

A minimum grade of C (or satisfactory in courses graded S and U) must be earned for each course applying toward a graduate degree, and a 2.8 cumulative GPA in all courses attempted toward the degree is required for graduation. Individual programs may set higher GPA and other graduation requirements.

Students are expected at all times to respond to assignments and research projects with original data, manuscripts and papers. Any deviation from this could result in a grade of F for the assignment and course and possible dismissal from the School of Graduate Studies.

Academic Probation and Dismissal

Any student whose cumulative GPA for a degree program drops below 2.8 will be placed on academic probation. Such status will be noted on the student's academic record (transcript). While on probation, the student must earn a minimum of 3.0 each semester until the cumulative GPA is raised to at least 2.8. Students who fail to earn at least 3.0 each semester while on probation shall be considered for academic dismissal from the School of Graduate Studies.

Where circumstances warrant, upon recommendation of the academic program concerned and approval of the dean, a student being considered for dismissal under the provisions of this policy may be permitted to continue as a student on probation. In such cases, the student must earn at least 3.0 each semester while on probation until a 2.8 cumulative GPA is achieved. Failure to do so will result in automatic dismissal from the degree program. The second dismissal will be final.

Individual programs shall set policies concerning academic probation and recommendations for dismissal in regard to students who receive a grade of U (unsatisfactory) in courses graded S or U.

With approval of the dean, individual departments may establish higher GPA standards for probation or dismissal, in which cases the higher standards shall apply.

Any student dismissed from the School of Graduate Studies may appeal the action in accordance with procedure shown in the Student Discipline, Grievances, and Appeals section in the General Information section.

Leaves of Absence

Registration in each semester indicates that a student is making progress for his/her enrolled objective. Students who do not plan to enroll for an upcoming semester (except the summer semester) should request a leave

of absence from the dean, through their program director. Failure to do so could result in being required to reapply for admission. A leave of absence does not modify a student's obligation to complete the degree within the stated time.

Transfer Credit

Transfer of graduate credit is never automatic; any credits transferred do not reduce the residence requirement for any advanced degree.

At the discretion of the dean and the faculty of the major program, up to 6 semester hours credit toward a master's degree may be transferred.

In the case of a prospective Ph.D. candidate entering the School of Graduate Studies with a master's degree from another institution, the candidate shall pass an examination on his major subject and thesis during the first semester of residence if credit for any pertinent portion of the master's course work (6 semester hours maximum usually allowed) is to be applied to the Ph.D. The transfer of any course work beyond the master's level is a matter for negotiation between the student, his advisory committee, his major department and the dean. In general, no more than 18 semester hours may be transferred toward the Ph.D., under any circumstances.

Residence and Time Limit

The minimum requirement for the doctor of philosophy degree is three full academic years beyond the bachelor's degree, which cannot be satisfied through summer work alone. At least two full consecutive semesters must be spent in residence on the campus. If the student has part-time duties (employment or an assistantship), the residence requirements will be increased accordingly to provide the equivalent of two semesters of full-time study in residence. All course work and other requirements for the doctor of philosophy degree, except the final oral examination, must be completed within seven consecutive calendar years from the date of enrollment.

The minimum residence requirement for all master's degrees is one full academic year. All work credited toward a master's degree, including the final oral examination, must be completed within five consecutive calendar years from the date of enrollment.

A student may be considered for dismissal if he fails to make timely progress toward the degree sought, or may be subject to re-examination or additional course work.

Where circumstances warrant, a student may petition the dean for exceptions to this residence and time limit policy.

Doctor of Philosophy Degree Program

This degree may be conferred in biochemistry and molecular biology, cellular biology and anatomy, endocrinology, molecular medicine, nursing, oral biology, pharmacology and toxicology, and physiology.

Requirements for Admission

1. A completed formal application.
2. Three letters of recommendation.
3. Graduate Record Examination scores of 1,000 (combined verbal and quantitative). The Test of English as a Foreign Language (TOEFL) is required of all foreign applicants (excluding English-speaking countries), minimum acceptable score is 600 paper-based or 250 computer-based.
4. Undergraduate grade point average of 3.0.
5. Fulfillment of additional program requirements (see Additional Program Requirements).

Requirements for Graduation

These do not include departmental requirements which must be fulfilled in addition to the list below.

1. *Minimum Time*
   A minimum of three academic years of full-time graduate study beyond the bachelor's degree is required.
2. *Residence*
   A minimum of two consecutive semesters of full-time study or the equivalent in residence on this campus is required.
3. *Course Work and Research Proposals*
   A program of study and proposed research

plan as the basis for a dissertation, which has been approved by the student's five-person advisory committee, department chair and the dean. The research plan must conform to the Conduct of Research Policy of MCG.

4. *Research Tools*
The student must demonstrate proficiency in two appropriate tools of research. Graduate courses demonstrating computer and statistics literacy are recommended. The research tools offered must be recommended by the advisory committee and the department chair and approved by the dean.

5. *The Comprehensive Examination*
This is divided into the first examination and, no earlier than one academic semester later, the second examination.

First Examination

This is a comprehensive examination testing the student's ability to correlate material presented during the first part of the graduate curriculum.

The first examination may be taken after a minimum of 18 semester hours of graduate study at the "7000" and "8000" level. It must be successfully passed before the student will be permitted to become a candidate for a degree. In the event of failure, the first examination may be repeated once with the permission of the department chair, provided at least one additional semester of graduate work has been completed. Failing the retake of the examination will result in the student being considered for dismissal from the graduate program and the School of Graduate Studies. The first examination will be a written test that occupies two half days or one full day. The examination will be prepared and graded by the faculty of the department under the supervision of the department chair. It must be submitted to the School of Graduate Studies by the chair for approval by the dean at least one week prior to the examination date.

The results are certified by the department chair to the School of Graduate Studies and the student's written answers will be filed in the department.

Second Examination

This examination is designed to test an understanding of the specialized field under study by the student, as defined by the advisory committee, in a manner demonstrating knowledge and maturity of current concepts, as well as historical and literature background. The examination is written and is to occupy two half days or one full day. A two-hour oral component may be substituted for one-third of the written component. The examination is prepared by the advisory committee in the presence of a representative of the dean. The examination must have the approval of the department chair and the dean before it is administered. The examination will be considered passed if a majority of the advisory committee agree. The results will be certified by the department chair to the School of Graduate Studies. The student's written answers are filed in the department. In the event of failure, at least one semester must elapse before it is administered again. The examination may be retaken only once.

6. *Admission to Candidacy*
A student will be admitted to candidacy for the Ph.D. degree by the dean following successful completion and presentation of the research tools, course work and research proposals, and passing of the comprehensive examination. Until this occurs, graduate courses taken are not credited toward the degree.

7. *Dissertation*
A dissertation is required of all Ph.D. candidates. This is the culmination of an original independent investigation. The dissertation must give evidence that new information was obtained, as well as provide scholarly and critical judgment as to the relationship of this information to the past literature and overall field of study. The dissertation should clearly demonstrate the appropriate methodology, techniques, statistics and scientific logic which require acceptance of this new information. Publication of the dissertation in one of various forms, while not required, is strongly urged.

8. *Final Oral Examination (Defense of Dissertation)*
   The candidate must defend in a satisfactory manner all aspects of the dissertation before the advisory committee and outside readers. The dean or the dean's representative will conduct the examination in public. Dissertation defense must be carried out within two years of admission to candidacy. Otherwise, the student must undergo re-examination. The student must be enrolled in the semester that the examination is administered.
9. *An overall grade point average of 2.8.*

Doctor of Philosophy/Doctor of Medicine (Concurrent Degree) Program

General

The goal of the combined M.D./Ph.D. degree program is to provide students with the complete training in both medicine and research biomedical sciences required for successful careers in investigative medicine. Students will complete the academic requirements for both the M.D. degree from the School of Medicine and the Ph.D. degree from one of the degree-granting departments of biomedical sciences in the University System of Georgia. Students may choose from eligible Ph.D. programs at the Medical College of Georgia, University of Georgia, the Georgia Institute of Technology and Georgia State University. The normal time for completion of the degree requirements is six to seven years.

Requirements for Admission

Applicants must fulfill the requirements for admission to the School of Medicine in addition to the requirements for admission to the combined program. Completion of a supplemental M.D./Ph.D. program application is required in addition to the School of Medicine application. Candidates for the dual degree program must demonstrate outstanding academic credentials in addition to a strong interest in the pursuit of careers in research and investigative medicine. Generally, prospective candidates for the dual degree program will be interviewed concurrently with the interviews for the School of Medicine.

The Master of Science Degree Program

This degree may be conferred in allied health sciences, biochemistry and molecular biology, cellular biology and anatomy, endocrinology, pharmacology-toxicology, physiology, oral biology, medical illustration, adult nursing, community nursing, parent-child nursing and mental health-psychiatric nursing.

Requirements for Admission

1. A completed formal application.
2. Three letters of recommendation.
3. Graduate Record Examination scores of 1,000 (combined verbal and quantitative). The Test of English as a Foreign Language (TOEFL) is required of all foreign applicants (excluding English-speaking countries), minimum acceptable score is 600 paper-based or 250 computer-based.
4. Undergraduate grade point average of 3.0.
5. Fulfillment of additional program requirements (see Additional Program Requirements).

Requirements for Graduation

These requirements do not include additional departmental requirements which must be fulfilled in addition to the list below.

1. *Course work*
   A minimum of 36 semester hours of graduate work is required.
2. *Residence*
   A minimum of two consecutive semesters of full-time study or the equivalent in residence on this campus is required (medical illustration programs require four semesters).
3. *Course Work and Research Proposals*
   A program of study and a research plan proposed as a basis of a thesis must be approved by the four-person advisory committee, the department chair and the dean. The research plan must conform to the Conduct of Research Policy of MCG.

4. *Research Tools (Program Option)*
   The student must demonstrate proficiency in one tool of research specified by the individual program.
5. *Comprehensive Examination (Program Option)*
   The comprehensive examination may be taken after a minimum of 18 semester hours of graduate study, provided at least 10 of these hours are at the 7000 and 8000 level. It must be successfully passed before the student will be permitted to become a candidate for a graduate degree. In the event of failure, this examination may be repeated once with the permission of the department chair, provided at least one additional semester of graduate work has been completed. The student must have submitted an approved course work proposal for the master of science degree before being eligible to take the comprehensive examination. The comprehensive examination will be a written test that occupies two half-days or one full-day. The examination will be prepared by the faculty of the department and be submitted to the dean by the department chair for approval at least one week prior to the examination date. The results of the examination are certified by the department chair to the School of Graduate Studies and the student's written answers will be filed in the department.
6. *Admission to Candidacy*
   A student will be admitted to candidacy for the master of science degree by the dean. This will occur following acceptance of the course work and research proposals and passage of the comprehensive examination (if required). Until this occurs, graduate courses taken are not credited toward the degree.
7. *Thesis*
   A thesis is required for the M.S. degree except for the medical illustration program, which requires a special project. The M.S.N. degree programs may, with permission, substitute a special research project for the thesis. The thesis is a culmination of an original investigation leading to new information. The thesis should characterize in a scholarly manner the importance of this information as it applies to the field of study. The thesis should reflect the methodology, techniques, statistics and literature background used, as well as scientific logic necessary for acceptance of the results and conclusion.
8. *Final Oral Examination (Defense of Thesis)*
   The candidate must defend all aspects of the thesis before the advisory committee. The dean or the dean's representative will conduct the oral examination in public. Thesis defense must be carried out within two years of admission to candidacy. Otherwise, the student must undergo re-examination. The student must be enrolled in the semester that the examination is administered.
9. *An overall grade point average of 2.8 (3.0 in nursing programs).*

Master of Science in Oral Biology/Doctor of Dental Medicine (Concurrent Degree) Program

This program enables the unusual candidate to obtain both the master of science and the doctor of dental medicine degrees with research work performed in oral biology. The program is available only to accepted dental students.

Degree candidates can spend one full year in graduate studies between the second and third year of dental school upon approval of the respective deans.

Requirements for Admission

Applicants must be enrolled in the School of Dentistry and in good academic and clinical standing. Two letters of recommendation are required, one from the dean and one from the associate dean for biological sciences.

The requirements for the combined degree programs are essentially those of the individual degree programs.

Requirements for Graduation

1. *Graduate Study*
   36 semester hours of graduate study are required of which a maximum of 12

semester hours may be transferred as a result of satisfactory completion of the first, second or third year of the dental curriculum. A minimum of 12 semester hours must be allocated to advanced course work (8000 series) and/or related to the major field. Twelve additional semster hours may be allocated to seminar (9010 and 9020), problems (9210) and research (9300). Course work programs will be arranged on an individual basis.

2. *Residency*
   One full academic year in residence as a graduate student is required. Depending on when the student begins the graduate course of study, the M.S. in oral biology and D.M.D. degrees may be awarded at different times.
3. *Program of Study and Research Proposal*
   Within the first three months of the student's enrollment as an M.S. in oral biology/D.M.D. candidate, an advisory committee will be established with the student's major professor as chair. The advisory committee should consist of four individuals in addition to the major professor with at least one representative from another department. The advisory committee will plan the student's course of study. A program of study and a research plan, which will serve as the basis for a thesis, should be recommended by the student's advisory committee, the department chair and approved by the dean.

Master of Physical Therapy Degree Program

Physical Therapy is one of the allied health professions dedicated to the rehabilitation of handicapped individuals. As a member of the health team the physical therapist uses a variety of therapeutic measures to help the patient regain maximum function possible within the limits of his disability. The physical therapist must be able to determine the extent of functional loss and then plan and implement an appropriate therapeutic program. In clinical settings physical therapists function as administrators, researchers, consultants, and educators.

The Department of Physical Therapy provides educational programs at the graduate level for two groups of people. The Master in Physical Therapy degree is designed to prepare participants to enter the field of physical therapy. The master of health education and the master of science are designed to prepare practicing physical therapists for careers in clinical or academic education, clinical specialization, or research.

Objectives

Goal: The goal of the MPT curriculum is to develop problem-solving physical therapists by providing learning experiences that enable each student to gain the knowledge and skills necessary to meet the physical therapy needs of society.

Upon completion of the program the graduate will:

—Be able to function in administrative, clinical, consultative, educational and research areas as a provider of health care services within the scope of the physical therapy profession.

—Seek out opportunities to continue the development of personal humanistic qualities and scientific abilities while striving for excellence in personal and professional activities.

—Be sensitive to the needs of each individual as well as the changing health needs of society as a whole.

—Maintain a flexible attitude toward new developments and participate in the improvement of physical therapy practice.

Accreditation

The MPT program is accredited by the Commission for Accreditation of Physical Therapy Education. Graduates are eligible to take the licensing examination required to practice physical therapy.

Financial Aid and Estimated Expenses

Refer to General Information section of this catalog.

In addition to sources of financial aid available to all MCG students, there may be aid available specifically for students enrolled in the physical therapy curriculum. For more

information, contact: Chairman, Department of Physical Therapy, Medical College of Georgia.

Students accepted into the program should expect first year's expenses of approximately $1,100, second year $1,465, and third year $1,315. Students must be prepared to travel throughout the United States to complete the clinical education requirements during the second and third years of study.

Some travel will also be required to facilities in the Southeast. Travel costs can be $2,000 higher or more, depending on the internship site. Financial assistance for these additional expenses cannot be guaranteed although every effort will be made to assist students with major financial problems.

Requirements for Admission

Applicants may attend any accredited college or university for their baccalaureate degree, however, all requirements of the Medical College of Georgia must be met. Preference will be given to applicants who have demonstrated superior ability in all academic areas. In planning course work the student should seek a broad base of experiences to help identify areas of interest and competence and give a wide background to meet the varied challenges of modern society. It is strongly suggested that applicants obtain some knowledge of the field of physical therapy through practical experience before interview. Physical therapy is a profession which requires a knowledge of human behavior, physical and psychological, and a knowledge of man's history, literature, art, music, communicative skills, society past and present, economic problems, educational patterns and business methods. Prospective applicants are encouraged to contact the Department of Physical Therapy early in their academic careers to ensure completing the necessary prerequisites. Students are admitted to the program fall semester each year.

Admission requirements for the Masters in Physical Therapy degree are:

1. Baccalaureate degree that includes the following specific courses:
   Physics–1 full academic year with lab
   Human anatomy and physiology–1 course with lab
   Biology–1 course with lab
   Chemistry–1 course with lab
   One additional course with lab in either biology, chemistry, or human anatomy and physiology
   Six courses in the humanities and social sciences that include at least one course in psychology
2. GRE score of 1000 (sum of verbal and quantitative sections)
3. Overall GPA of 3.0 or 3.4 in last 36 semester hours
4. GPA of 3.0 in all prerequisite course work with no grade lower than a C.

All applicants for the MPT program are expected to have 100 hours of observational experience in a variety of physical therapy settings.

Application Procedures

Application forms may be obtained from the Office of Academic Admissions. Applications should be submitted between September 1 and January 15 prior to anticipated enrollment. Early application is recommended. Applicants should submit a list of current and/or planned courses and credits.

1. Applications must be filed no later than January 15; all procedures may be completed by January 15 of the year in which one is applying for admission in September.
2. The Department of Physical Therapy may require a personal interview as part of the application procedure. Due to the large number of qualified applicants, not all applicants are invited to interview. Interviews are scheduled from January through March.
3. Applicants must have completed, or submit a plan to complete before initial enrollment, a baccalaureate degree with a minimum grade point average (on a 4.0 system) of overall 3.0 or 3.4 in the last 36 semester hours.
4. A grade of D is accepted only at the discretion of the department.

Selection of applicants who meet admission requirements begins in April of each year. Applicants will be notified of final action on their application in April.

Curriculum

The curriculum covers seven consecutive semesters. Detailed study of normal human function, structures and systems is integrated with study of various pathological conditions which interfere with function. The medical, surgical and therapeutic procedures which are used to help the patient regain the maximum function possible are additional topics of study. Students are also introduced to basic research procedures, supervisory and management activities and educational systems in health care.

Classroom, laboratory, clinical and independent study experiences are provided. Clinical facilities are selected to provide a broad base of experiences in a variety of settings.

Academic Promotion and Graduation

Refer to the General Information section of this catalog.

Final grades for academic courses and units taught by the physical therapy faculty are given on an A, B or F scale. The grade of D is not acceptable in any course taught by MCG faculty. If a student earns a D in a course taught outside the Department of Physical Therapy, the grade is considered a failing grade and the student is subject to dismissal from the program.

Students must meet the minimum level of proficiency established for each course or unit. Minimal level of proficiency is 80 percent of correct responses in written, oral and/or practical examinations plus satisfactory completion of other course requirements. This applies to courses taught by the physical therapy faculty.

Satisfactory progress through the curriculum depends on satisfactory completion of each course/unit at the time the course/unit is offered.

Incompletes may be given in any course or unit under extenuating circumstances at the discretion of the instructor(s). Incompletes must be made up in accordance with MCG policy.

A student who earns a grade of F in any course or unit is subject to dismissal from the program.

Non-academic Exclusion

A student may be denied permission to continue enrollment in the Department of Physical Therapy if, in the opinion of the faculty, the student's knowledge, character or mental or physical fitness casts grave doubts upon his potential capacities as a physical therapist assistant, physical therapist or physical therapy educator.

Master of Health Education Degree Program

This is an educational degree program for allied health professionals which prepares individuals for careers as an academic or clinical educator and more highly skilled practitioner. The program is open to credentialed professionals in the disciplines of dental hygiene, health information management, medical technology, occupational therapy and physical therapy.

Requirements for Admission

1. A completed application demonstrating at least a baccalaureate degree from an accredited program in the discipline and professional credentials (or eligibility for) in the field.
2. Three letters of recommendation.
3. Graduate Record Examination scores of 1000 (combined verbal and quantitative). The Test of English as a Foreign Language (TOEFL) is required of all foreign applicants (excluding English speaking countries), minimum acceptable score is 600 paper-based or 250 computer-based.
4. Additional discipline-specific requirements may be stipulated by the individual program.

Requirements for Graduation

1. *Graduate Study*
   Completion of a minimum of 36 semester hours with the following minimum requirements: *Education Core:* 15 semester hours; *Research Tools and Methods:* 6 semester hours; *Discipline Required Courses and Electives:* 15 semester hours.

2. *Residence*
   A minimum of two consecutive semesters of full-time study or the equivalent in residence on this campus is required.
3. *Program of Study*
   A course work proposal which has been approved by the advisory committee, the department chair and the dean.
4. *Fulfillment of additional program requirements.*
5. *An overall grade point average of 2.8.*

Additional Program Requirements

Master of Science Degree Program for Qualified Allied Health Professionals

This is an interdisciplinary research degree program for allied health professionals in the disciplines of dental hygiene, health information management, medical technology, occupational therapy, physical therapy, physicians assistant, radiologic science, and respiratory therapy.

This graduate program is interdisciplinary, research-oriented and requires completion of a thesis. The primary objectives of the program are to prepare:

1. Specialized clinical practitioners with advanced knowledge and skills in related basic and clinical sciences;
2. Researchers who can formulate questions, organize and test ideas and examine information from the basic and clinical sciences to apply to their disciplines;
3. Educators with mastery of advanced content, and a grounding in the philosophy, theory and methods of higher education, and
4. Leaders who can help plan, develop and deliver cost-effective, quality healthcare services.

Requirements for Admission

1. A completed application demonstrating at least a baccalaureate degree from an accredited program in the discipline and professional credentials (or eligibility for) in the field.
2. Three letters of recommendation.
3. Graduate Record Examination scores of 1000 (combined verbal and quantitative). The Test of English as a Foreign Language (TOEFL) is required of all international applicants (excluding English-speaking countries), minimum acceptable score is 600 paper-based or 250 computer-based.
4. Additional discipline-specific requirements may be stipulated by the individual program.

Requirements for Graduation

1. *Graduate Study*
   Completion of a minimum of 36 semester hours with the following minimum requirements: Basic Science: 7 semester hours; Research Tools and Methods: 7 semester hours; Disciplinary/Interdisciplinary Studies: 7 semester hours; Thesis Research: 4 semester hours.
2. *Residence*
   A minimum of two consecutive semesters of full-time study or the equivalent in residence on this campus is required.
3. *Program of Study*
   A course work proposal which has been approved by the advisory committee, the department chair and the dean.
4. *Fulfillment of additional program requirements.*
5. *An overall grade point average of 2.8.*

Medical Illustration (M.S.)

This program provides education in the anatomical sciences and training in the creation of artwork and other visual presentations for use in a variety of applications including publications (books, journals, brochures, advertisements), slides, computer graphics, television, demonstrative evidence for the courtroom, prosthetics and three-dimensional models. Emphasis is on developing skills as a visual problem-solver, interpreting information to make it clear, accurate and understandable for its intended audience.

Special Requirements for Admission

Biology/Zoology

1. Comparative vertebrate anatomy or vertebrate morphology, with lab (must include student dissections of a mammal).
2. Human physiology (general physiology or vertebrate physiology is acceptable).
3. Although not required, one or more of the following are strongly recommended: histology, embryology, cell biology, human anatomy, invertebrate zoology. A B average or better is expected in the above. (Pass/fail grades will require an equivalent letter grade.)

Art

1. Life drawing from the nude model—advanced level (at least a year recommended).
2. Although specific courses are not listed, a student must have a strong studio art background with emphasis on realistic drawing and painting.
3. Superior ability in accurately drawing from direct observation, as demonstrated in a portfolio of designated artwork and evaluated by the program's faculty.
4. Basic photography (both camera and darkroom experience).
5. Course(s) in computer science/graphics.

Personal Interview

To avoid unnecessary expense to the applicants, an interview is requested only after a preliminary evaluation has determined that the student meets all of the above requirements or can meet them prior to the beginning of the fall semester.

Special Application Procedure

Preliminary Evaluation—A preliminary slide portfolio of specified artwork and a report of academic qualifications must be submitted as the first step in the application procedure.

Information on the required portfolio and the Applicant Preliminary Evaluation Form can be obtained from the Medical Illustration Graduate Program, Medical College of Georgia, Augusta, GA 30912-0300.

Special Needs—Second-year students are encouraged to attend the annual five-day professional meeting for which they will bear the expense of travel, room and board and registration fee.

Special Requirements for Graduation

A designated five-semester program of study must be completed by all medical illustration students.

Graduate Nursing (Ph.D., M.S.N., M.N.,)

Immunizations

In addition to the immunization policy listed in the general-information section of this catalog, students must have HBV immunizations completed prior to entrance in School of Nursing program; students not completing HBV series must sign a disclaimer.

Ph.D. Program in Nursing

Special Admission Requirements

1. Completion of a course in introductory statistics.
2. Graduate Record Examination score of 1000 or above (verbal and quantitative scores combined) within the last five years.
3. A baccalaureate degree in nursing with a graduation GPA of 3.2 or above on a 4.0 scale.
4. Evidence of Georgia licensure prior to enrollment.
5. Submission of goals or statement of interest in doctoral study.
6. Curriculum vitae.
7. Interview with faculty.
8. Letters of recommendation from at least three individuals who are familiar with the applicant's intellectual ability, academic potential and professional achievement.
9. Minimum of two years experience in the practice of nursing.

A minimum of 120 post-baccalaureate hours or 90 post-masters hours are required for program completion.

A. Area of Concentration (9 semester hours)

The Health Care Across the Life Span area of concentration focuses on research and theory development related to diagnosing and treating human responses to actual or potential health problems. Emphasis on the study

of individuals' responses to health problems as influenced by developmental processes. A graduate will be prepared to provide leadership in his/her area of expertise.

B. Core Courses. *(10 semester hours)*
This component addresses the process of logical thought and the theoretical basis for nursing practice. The scientific process utilized toward the analysis and development of nursing theory. The leadership role of the doctorally prepared nurse is developed through emphasis on the sociopolitical forces and ethical-legal issues affecting the health care delivery system.

C. Research and Statistics.
(22 semester hours)
This component addresses the processes of inquiry and validation, psychometric theory and the techniques of measurement, design, advanced data analysis and evaluation essential to conducting nursing research. The student can work closely with faculty members engaged in ongoing research projects. A student will also conduct research specific to his/her own interest and share information generated in research seminars.

D. Supporting Courses. *(9 semester hours)*
This component allows each student to pursue an individualized plan of study supportive to his/her research interests and a concentration in nursing. The student can select courses and learning experiences from nursing and related disciplines which will contribute to the development of nursing knowledge. Numerous nursing and non-nursing courses are included in this component.

E. Dissertation. *(10 semester hours)*
Each student must complete an original investigation which provides evidence of independent thinking, scholarly ability and critical judgment, and indicates knowledge of research methods and techniques.

M.S.N., M.N. Programs

Academic Policies

All academic requirements of the School of Graduate Studies must be met. In addition, masters students in Nursing are required to maintain a cumulative GPA of 3.0. Students whose cumulative GPA falls below 3.0 will be placed on academic probation. While on probation, students are required to maintain a 3.0 each semester until the cumulative GPA is raised to at least a 3.0. Students who fail to earn at least a 3.0 each semester while on probation shall be considered for academic dismissal. Masters students in Nursing who earn D's or F's in any course during the program will be considered for dismissal. Students must have a cumulative GPA of 2.8 or higher in order to graduate.

Special Admission Requirements

1. A bachelor of science in nursing degree with an upper division major in nursing. Minimum of one year of experience as registered nurse. Applicants for parent child nursing must have a minimum of one year of experience in PCN. Applicants for Anesthesia nursing must have a minimum of one year critical care experience.
2. Evidence of Georgia licensure prior to enrollment.
3. Three letters of recommendation from employers, educators or professional colleagues closely associated with the applicant's nursing experience and attesting to professional competence.
4. A personal interview with the chairman or designated faculty member(s) in the department of the selected major.
5. Evidence of satisfactory completion of a course in statistics (graduate or undergraduate credit).
6. Evidence of satisfactory completion of a course in health assessment (graduate or undergraduate credit or equivalent).

Course Descriptions

Lecture-lab-clinical-credit hours are designated as shown in this example: (3–2–2–4). Courses in the School of Graduate Studies are numbered from 6000–9999.

Biomedical Sciences

All students entering one of the biomedical science programs are required to enroll during their first year in a series of three courses making up a core curriculum. These courses are designed to provide students with a "core" of information deemed essential by the faculty for students in the basic sciences no matter which specific research discipline they enter.

SGS 8010. Scientific Communication and Research Ethics (2-0-0-2)
Prerequisite: Students should be carrying out research for their thesis.

Covers writing abstracts and curriculum vitae, oral presentations and analyzing pressures causing violations of research ethics. Discussion of human and animal experimentation.

SGS 8020. Functional Cell Biology (6-0-0-6)
Prerequisite: Acceptance into a basic health sciences graduate program in the Departments of Cellular Biology and Anatomy, Biochemistry and Molecular Biology, Oral Biology, Pharmacology and Toxicology, Physiology and Endocrinology, or Institute of Molecular Medicine and Genetics, or by permission of Dean of School of Graduate Studies.

First of a two-course multidisciplinary sequence covering structural and functional fundamentals of cellular biology. Includes techniques for studying cells and properties, structure and biogenesis of membranes including cellular membranes, endoplasmic reticulum, Golgi apparatus, lysosomes and mitochondria. Covers glucose, lipid and protein metabolism and cellular division. Weekly seminars enable students to present oral and written reports on papers taken from scientific literature, interacting with guest speakers visiting campus and special hands-on experiences with various laboratory techniques.

SGS 8030. Functional Systems Biology (8-0-0-8)
Prerequisite: Functional Cell Biology or by permission of the Dean of the School of Graduate Studies.

Second of a two-course multidisciplinary core covering structural and functional fundamentals of systems biology. Includes physiology and pharmacology of nerve and muscle and central nervous, cardiovascular, respiratory, renal, gastrointestinal and endocrine systems. Weekly seminars enable students to present oral and written reports on papers taken from scientific literature and hands-on experiences with various laboratory techniques.

Biochemistry and Molecular Biology (Ph.D., M.S.)

Recommended preparation: Courses at the college level in physics, mathematics (through integral calculus), biology, organic chemistry (through qualitative organic) and a year of physical chemistry.

BMB 7450. Medical Biochemistry (7-0-0-7)
Covers chemistry and reactions of constituents of living matter, metabolism and control mechanisms at levels of biological organization from subcellular to organism. Emphasizes medical application.

BMB 8010. Core Biochemistry and Molecular Biology (5-0-0-5)
Fiirst course of a two-course sequence covering chemistry of constituents of living matter, intermediary metabolism and molecular biology. Includes protein chemistry, enzyme kinetics, lipid chemistry, structure and properties of nucleic acids and metabolic regulation.

BMB 8020. Core Biochemistry and Molecular Biology (5-0-0-5)
Continuation course of two-course sequence covering chemistry of constituents of living matter, intermediary metabolism and molecular biology. Includes metabolism of macromolecules, membrane function, gene structure and the regulation of gene expression.

BMB 8200. Topics in Biochemistry and Molecular Biology (5-0-0-5)
Prerequisite: Medical Biochemistry, BMB 8010, BMB 8020.

Topics in Biochemistry and Molecular Biology. Emphasizes combination of lecture, student presentations and critical group analysis of original research topics and publications.

BMB 8280. Neurochemistry (5-0-0-5)
Prerequisite: Basic biochemistry or chemistry recommended.

Brain structure, myelinogenesis, synaptic structure and function, receptors, neurotransmitter synthesis, action, molecular biology, research methodology for neurochemistry and neuroscience.

BMB 8900. Workshop in Biochemistry and Molecular Biology (1-0-0-1)
Prerequisite: Medical Biochemistry.

In-depth review of research in selected areas of biochemistry and molecular biology. Emphasizes student presentations. Students must present literature reviews and/or original research papers on assigned topics.

BMB 9010. Seminar in Biochemistry and Molecular Biology (1-0-0-1)
Research presentations by MCG faculty, students and visiting research scientists.

BMB 9020. Seminar in Biochemistry and Molecular Biology (1-0-0-1)
Research presentations by MCG faculty, students and visiting research scientists.

BMB 9210. Investigation of a Problem (variable credit, 1-12)
Prerequisite: Admission in a graduate program.

Student works with individual faculty members on specific investigative research problem. Introduction to analytical techniques and scientific method in action.

BMB 9300. Research (variable credit, 1-12)
Prerequisite: Permanent assignment to specific lab with faculty advisor and defined research project.
Student works closely with faculty thesis/dissertation advisor on an in-depth study of a research problem of interest to both student and advisor. Course culminates in preparing Ph.D. dissertation or M.S. thesis.

Cellular Biology and Anatomy (Ph.D., M.S.)

Recommended preparation: An undergraduate major in zoology, biology or cell biology, or a major in chemistry or physics with a minor in zoology or biology (at least three basic courses).

ANM 7010. Human Gross Anatomy (6-3-0-11)
Study of anatomy of the human body as applicable to clinical practice. Lectures, laboratory and demonstration materials are directed studies.

ANM 7030. Neuroanatomy (2-1-0-3)
Prerequisite: Course must be taken with PHY 7030.
Lecture and laboratory course covering structure, function and dysfunction of the human nervous system. Taught with PHY 7030 to integrate structure and function. These two courses are taught as ITD-5170 for medical students, which includes clinical neurology. ANM 7030 and PHY 7030 must be taken together.

ANM 7710. General Immunology (2-1-0-2)
Introduction to components of the immune system, control of immune system and clinical aspects of host defenses.

ANM 8010. Special Topics in Anatomy (variable credit, 1-4)
Discussion and analysis of current research areas.

ANM 8020. Introduction to Research (2-0-0-2)
Discussion and analysis of current research areas.

ANM 8050. Cell Biology and Development (4-2-0-6)
Prerequisite: Cell Biology, Biochemistry and/or Gross Anatomy, or permission of course director.
Details microscopic anatomy and development of all human organ systems and cellular biology of various tissues and organs. Early human development and systemic development in detail. Presents cellular biology as it relates to anatomic structure.

ANM 8080. Retinal Cell Biology (3-0-0-3)
Prerequisite: Core Cell Biology.
Focuses on retina as a model for research on CNS cellular functional and growth.

ANM 8120. Advanced Topics in Immunology (3-0-0-3)
Prerequisite: General immunology or permission of instructor.
In-depth coverage of components of immune system; structure and function of antigen recognition molecules (immunoglobulins, T cell receptor, MHC); control of immune responses; and clinical aspects of immune responses. Provides basis for reading, understanding and critiquing immunological literature.

ANM 8150. Molecular and Cellular Virology (3-0-0-3)
Prerequisite: Functional Cell Biology I and II, or Medical Biochemistry, or Medical Microbiology.
Lectures on selected topics and discussion of current research papers. Topics reflect use of animal viruses as model systems to understand cellular functions at a molecular level.

ANM 9010. Seminar in Cellular Biology and Anatomy (1-0-0-1)
Forum for faculty and graduate students to present their research.

ANM 9020. Seminar in Cellular Biology and Anatomy (1-0-0-1)
Forum for faculty and graduate students to present their research.

ANM 9210. Investigation of a Problem (variable credit, 1-12)
Prerequisite: Admission in a graduate program
Student works with individual faculty members on specific investigative research problem. Introduction to analytical techniques and scientific method in action.

ANM 9300. Research (variable credit, 1-12)
Prerequisite: Permanent assignment to specific lab with faculty advisor and defined research project.
Student works closely with faculty thesis/dissertation advisor on an in-depth study of a research problem of interest to both student and advisor. Course culminates in preparing Ph.D. dissertation or M.S. thesis.

Molecular Medicine (Ph.D.)

MOL 8010. Research Tools in Molecular Medicine I (variable credit, 1-6)
Prerequisite: SGS 8020 (may be taken concurrently) or permission of instructor.
First course of a year-long introduction to modern laboratory methods. Four weeks of lectures, followed by six weeks of individualized instruction in a research or core facility laboratory. Students develop a short project and master at least one specific research technique.

MOL 8020. Research Tools in Molecular Medicine II (variable credit, 1-12)
Prerequisite: Research Tools in Molecular Medicine I.
Continuation course of a year-long introduction to

modern laboratory methods. Consists of individualized instruction in a research or core facility laboratory. Students develop a short project and master at least one specific research technique.

MOL 8030. Biological Signaling (2-0-0-2)
Prerequisite: SGS 8020-8030.
Strategies of communication at various levels of biological organization. Covers intracellular communication, communication between cells in multicellular organisms and interactions between organisms in a group or ecosystem. Focuses on emergent properties of complex systems.

MOL 9010. Advanced Seminar in Molecular Medicine (1-0-0-1)
Prerequisite: SGS 8020-8030 or consent of instructor.
Seminar-style course covers a single, current topic in molecular medicine.

MOL 9210. Investigation of a Problem (variable credit, 1-12)
Prerequisite: Admission to graduate program.
Laboratory rotation course allows students to spend time during their first-year in a faculty member's lab.

MOL 9300. Research (variable credit, 1-12)
Prerequisite: Permanent assignment to specific lab with faculty advisor and defined research project.
Student works closely with faculty thesis/dissertation advisor on in-depth study of a research problem of interest to both student and advisor. Course culminates in preparing Ph.D. dissertation or M.S. thesis.

Pharmacology and Toxicology (Ph.D., M.S.)

Recommended preparation: Major training in at least one of the following fields: zoology, anatomy, biology, chemistry, microbiology, physiology, biochemistry, mathematics or engineering. Courses in several of the fields other than the major field are desirable.

PHM 8010. Molecular Pharmacology (2-0-0-2)
Prerequisite: PHM 8100 or consent of instructor.
Mechanism of achieving a biological effect through the chemical interaction of a drug with a biological receptor.

PHM 8030. Neuropharmacology (2-0-0-2)
Prerequisite: PHM 8100.
Selected topics related to the action of chemical agents on the nervous system.

PHM 8040. Advanced Pharmacological Sciences (2-0-0-2)
Prerequisite: PHM8100 or consent of instructor.
Current techniques, concepts and trends in pharmacological research. Several topics are usually presented. These topics may be varied each time the course is presented.

PHM 8090. Cardiovascular Pharmacology (2-0-0-2)
Prerequisite: PHM 8100.
Evaluation of the actions of drugs on the heart and blood vessels.

PHM 8100. Survey Of Pharmacological Sciences I (6-2-0-7)
Prerequisite: PHY 7010,7020; SGS 8020,8030, or consent of instructors.
A one semester course. Provides the necessary background to practice rational drug therapy. Emphasis is on the major classes of drugs, their mechanisms of action, patient factors affecting their pharmacokinetics and adverse actions.

PHM 8120. Pharmacologically Vasoactive Peptides (2-0-0-2)
Prerequisite: PHM 8100.
Lectures and paper discussion on the pharmacology of the most important piogenic peptides which act on blood vessels.

PHM 9010. Seminar In Pharmacology (1-0-0-1)
Research presentations by MCG faculty and visiting research scientists.

PHM 9020. Seminar In Pharmacology (1-0-0-1)
Research presentations by MCG faculty and visiting research scientists.

PHM 9210. Investigation Of A Problem (variable credit, 1-12)
Prerequisite: Admission in a graduate program.
The student works with individual faculty members on a specific investigative research problem. This provides an introduction to analytical techniques and the scientific method in action.

PHM 9300. Research (variable credit, 1-12)
Prerequisite: Permanent assignment to a specific lab with a faculty advisor and a defined research project.
The student works closely with his faculty thesis/dissertation advisor on an in-depth study of a research problem of interest to both student and advisor. This course culminates in the preparation of a Ph.D. dissertation or M.S. thesis.

Physiology and Endocrinology (Ph.D., M.S.)

Physiology
Recommended preparation: An introductory course in zoology, courses in comparative anatomy and embryology, inorganic and physical chemistry, physics and calculus.

Endocrinology
Recommended preparation: Course work in inorganic, organic and physical chemistry, qualitative and quantitative analysis, and in biological sciences including such courses as physiology, anatomy, histology, biochemistry, embryology, zoology, etc.

PHY 7010. Survey Of Physiology 1 (10-0-0-11)
A one semester course presenting an intensive treatment of mammalian organ physiology including the cell, electrophysiology, peripheral nerve and reflexes, muscle, cardiovascular, respiration, body fluids, kidney, gastrointestinal and endocrine.

PHY 7030. Survey Of Neurophysiology (3-0-0-3)
Prerequisite: PHY 7010.
Peripheral and central nervous system physiology, including sensory, motor, and cognitive/emotional systems, with an introduction to clinical disorders of nervous system function. PHY 7030 is designed to be taken concurrently with ANM 7030.

PHY 8010. Research Designs In Applied Physiology And Health Promotion (2-0-0-2)
Introduction to research designs and methodologies used in AP/HP, including epidemiologic, laboratory and intervention studies.

PHY 8020. Cardiodynamics (2-0-0-2)
Prerequisite: PHY7010.
Physiology of the heart including structure, development, action as muscle and dynamics of its pumping action.

PHY 8030. Pulmonary Vascular Permeability And Pulmonary Edema (2-0-0-2)
Prerequisite: PHY7010.
A study of water and solute movement across the pulmonary endothelium.

PHY 8040. Physiology Of Contraction Of Striated Muscle (2-0-0-2)
Prerequisite: PHY 7010 and PHY 7030.
Excitation-contraction coupling, mechanics and biochemistsry of the cross-bridge cycle in skeletal and cardiac muscle.

PHY 8050. Blood Flow Regulation (2-0-0-2)
Prerequisite: PHY 7010.
A study of the determinants affecting cardiac output and peripheral blood flow, with consideration of techniques for measuring flow.

PHY 8060. Respiration (2-0-0-2)
Prerequisite: PHY 7010.
A study of the mechanics and control of respiration including consideration of experimental measurement.

PHY 8070. Body Fluid Regulation (2-0-0-2)
Prerequisite: PHY 7010.
A study of current concepts of regulation of body fluid volume and composition. Laboratory experiences in measurement of renal function and body fluid volumes provide data to be interpreted in the light of current and classical literature.

PHY 8080. Exercise Physiology (2-0-0-2)
Prerequisite: PHY 7010.
Physiologic response to acute and chronic exercise. Effect of regular exercise on fitness and health. Interactions of exercise and nutrition.

PHY 8100. Body Composition (2-0-0-2)
Causes and consequences of variation in body composition. Interactions of diet and energy expenditure. Implications for health problems such as cardiovascular disease, diabetes and osteoporosis.

PHY 8110. The Role Of Stress In Health (2-0-0-2)
How various types of social, psychological and physiological stressors influence health and well-being. Analysis of strategies for management of stress.

PHY 8130. Membrane Transport And Bioelectric Activity (2-0-0-2)
Prerequisite: PHY 7010, 7030 and/or permission of the instructor.
Theoretical basis of the membrane transport of charged and uncharged particles; the electrophysiological properties of nerve and muscle cells resulting from the transport of charged particles across membranes.

PHY 8160. Motor Systems (2-0-0-2)
Prerequisite: PHY 7010, 7030, and/or permission of the instructor.
Detailed consideration of neurophysiological mechanisms that underlie spinal cord, cerebral, basal ganglia, and cerebellar contributions to control of movement. Current literature is reviewed.

PHY 8210. Sensory Systems (2-0-0-2)
Prerequisite: PHY 7010, 7030.
A guided survey of the basic principles of functional organization of the somatic and special sensory systems. Emphasis on processing of sensory information, neuronal plasticity and the role of cerebral cortex in sensory perception.

PHY 8240. Physiology Of Thyroid Hormone (2-0-0-2)
Prerequisite: PHY 7010, 7030.
A literature survey of the history of the development of our concepts of thyroid hormones and their biological actions. This includes iodide - iodine metabolism and thyroid hormone synthesis, secretion, transport, mechanisms of action and physiologic actions.

PHY 9210. Investigation Of A Problem (variable credit, 1-12)
Prerequisite: Admission to a graduate program.
The student works with individual faculty members on a specific investigative research problem. This provides an introduction to analytical techniques and the scientific method in action.

PHY 9300. Research (variable credit, 1-12)
Prerequisite: Permanent assignment to a specific lab with a faculty advisor and a defined research project.
The student works closely with his faculty thesis/dissertation advisor on an in-depth study of a research problem of interest to both student and advisor. This

course culminates in the preparation of a Ph.D. dissertation or M.S. thesis.

END 8130. Mechanism Of Steroid Hormone Action (4-0-0-4)
Prerequisite: SGS 8020 and SGS 8030 or taking concurrently.
A detailed analysis of the intracellular events known to precede manifestation of steroid hormone action. Particular emphasis on receptor interactions with nuclear structures with a view toward regulation of genetic expression.

END 8140. Endocrinology Of Polypeptide Hormones (2-0-0-2)
Prerequisite: Inorganic chemistry, organic chemistry, quantitative analysis, physiology, histology, biochemistry.
Structure-function relationships of hormones of the hypothalamus, pituitary, thyroid, parathyroid, pineal, pancreas, adrenal medulla and gastrointestinal tract are studied as well as a characterization of paracrine and autocrine factors.

END 8150. Biochemistry Of Steroid Hormones (3-0-0-3)
The course covers nomenclature, biosynthesis, secretion, metabolism and actions of steroid hormones.

END 8160. Polypeptide-Hormone Receptor Interactions (3-0-0-3)
This course presents recent advances in the area of polypeptide hormone-receptor interactions. It emphasizes the mechanisms of hormone-induced signal transduction in regulation of cellular functions. Current literature is reviewed.

END 8170. Reproductive Physiologoy (2-0-0-2)
A biologically oriented review of spermatogenesis, ovulation, fertilization implantation and pregnancy. Includes a discussion of the safety and efficiency of current methods of contraception.

END 8200. Hormonal Regulation Of Cellular Function (4-0-0-4)
Prerequisite: BMB 7450 and undergraduate biochemistry.
The mechanisms by which protein hormones, growth factors and other ligands regulate cellular function are studied. This course emphasizes signal transduction pathways and the role of second messengers in cell regulation. The course is taught at the cellular and molecular level and the material is taken from the current scientific journals.

END 8210. Neuroendocrinology (3-0-0-3)
A study of how the neural system and endocrine system interact to control the major functions of the body.

END 8260. Analysis Of Protein-Ligand Interactions (3-0-0-3)
Prerequisite: BMB 7450, SGS 8020, SGS 8030 or concurrently.
A study of the principles and methods for analyzing mass action binding reactions.

END 9210. Investigation Of A Problem (variable credit, 1-12)
Prerequisite: Admission to a graduate program.
This course is a laboratory rotation course that allows students to spend time during their first year in a faculty member's lab.

END 9300. Research (variable credit, 1-12)
Prerequisite: Permanent assignment to a specific lab with a faculty advisor and a defined research project.
The student works closely with his faculty thesis/dissertation advisor on an in-depth study of a research problem of interest to both student and advisor. This course culminates in the preparation of a Ph.D. dissertation or M.S. thesis.

P&E 9010. Seminar In Physiology and Endocrinology (1-0-0-1)
Research presentations by MCG faculty and visiting research scientists.

P&E 9020. Seminar In Physiology and Endocrinology (1-0-0-1)
Research presentations by MCG faculty and visiting research scientists.

Oral Biology and Maxillofacial Pathology (Ph.D.,M.S.)

Special Requirements for Admission: D.M.D., D.D.S. degree or equivalent. A satisfactory physical examination.
Special Requirements for Graduation: The student will take 12 semester hours of core curriculum (OBG 8001, 8002, 8003, 8004, 8640, 8100). OBG 8064 and 8100 meet the research tools requirement for the M.S. student while the Ph.D. student must take an additional statistics course. Previous courses taken by a student to satisfy professional degree requirements cannot be used to satisfy these course requirements. The M.S. student will also take 24 hours of 9000-level courses which will include departmental seminars (OBG 9010 and 9020) as well as some combination of Investigation of a Problem (OBG 9210) and Research (OBG 9300). The Ph.D. student will also take these 9000-level courses and the School of Graduate Studies core curriculum. The total number of hours for the Ph.D. program will be determined by the student's advisory committee.

OBG 7220. Applied Pathology (5-0-0-5)
This course includes lectures and clinico-pathological conferences on the basic principles of disease and relevant histopathology. There is considerable emphasis on

understanding mechanisms underlying alterations at the cell and subcellular levels. The parameters of cell injury, inflammation, immunopathology, repair and regeneration, carcinogenesis, hemodynamic disturbances, genetic and metabolic disorders as well as nutritional diseases are studied.

OBG 8001. Topics In Oral Biology I (2-0-0-2)
Prerequisite: D.M.D., D.D.S., or equivalent; 2 years dental school for combined programs.

This course is composed of three blocks. The first block addresses Hard Tissue Biology in which the anatomy, physiology, and biochemistry of bone and teeth are emphasized. The second block is devoted toTemporomandibular Joint Disorders, and emphasizes the fundamental basic science that is essential in understanding the clinical problems related to the temporomandibular joint. The third block is Regeneration/Repair of Orofacial Tissues and emphasizes growth and differentiation of hard and soft tissues and the biochemical basis of wound healing.

OBG 8002. Topics In Oral Biology II (2-0-0-2)
Prerequisite: D.M.D., D.D.S., or equivalent; 2 yrs dental school for combined programs.

The course is composed of two blocks. The first block is Hemostasis and Bleeding Disorders which deals with fundamental concepts in the biochemistry, anatomy and physiology of the hemostatic response and bleeding disorders. The second block is Orofacial Infections in which the types of orofacial infections along with the causative agents, the role of lymphatic and other anatomic structures in the spread of infection, host defense mechanisms and anti-microbial therapies are presented.

OBG 8003. Topics In Oral Biology III (2-0-0-2)
Prerequisite: D.M.D., D.D.S., or equivalent; 2 yrs. dental school for combined programs.

The course is composed of three major blocks. The first block is a series of lectures on Pain and Anxiety Management in Dentistry. The second block addresses the Dental Management of the Medically Complex Patient. The third block covers Salivary Gland Function in Health and Disease.

OBG 8004. Topics In Oral Biology IV (2-0-0-2)
Prerequisite: D.M.D., D.D.S. or equivalent; 2 yrs. dental school for combined programs.

The course is composed of two blocks. The first block is a series of lectures related to Molecular Pathology. The second block emphasizes genetics as it relates to Orofacial Anomalies and Defects. This course is a multidisciplinary approach to these topics.

OBG 8100. Special Topics In Oral Biology (1-2-0-2)
This course introduces the Master of Science graduate student to basic statistical concepts. In addition, selected computer software is used by the student to perform statistical analyses.

OBG 8540. Advanced Oral Pathology (2-0-0-2)
Prerequisite: D.D.S., D.M.D. or equivalent.

The course is comprised of a series of lectures on Advanced Oral Pathology with emphasis on the etiology, mechanisms, and state of the art diagnostic measures and prognostic evaluation.

OBG 8640. Research Proposal Development (2-0-0-2)
This course introduces the graduate student to selected methods that are used to study the biology of orofacial tissues. In addition, potential research projects are identified and the mechanics for writing a research proposal are presented.

OBG 9010. Seminar In Oral Biology (1-0-0-1)
This course consists of several one hour seminars that will be presented by dental faculty, graduate students and invited lecturers. The seminar topics will be related to the research being conducted by each presenter.

OBG 9020. Graduate Oral Biology Seminar (1-0-0-1)
This course consists of several one hour seminars that will be presented by dental faculty, graduate students and invited lecturers. The seminar topics will be related to the research being conducted by each presenter.

OBG 9210. Investigation Of A Problem (variable credit, 1-12)
The student works with individual faculty members on a specific investigative research problem. This provides an introduction to analytical techniques and the scientific method in action.

OBG 9300. Research (variable credit, 1-12)
Prerequisite: Permanent assignment to a specific lab with a faculty advisor and a defined research project.

The student works closely with his faculty thesis/dissertation advisor on an in-depth study of a research problem of interest to both student and advisor. This course culminates in the preparation of a Ph.D. dissertation or M.S thesis.

Medical Illustration (M.S.)

MIL 6650. Medical Illustration Techniques IA (1-8-0-3)
Prerequisite: Admission to the graduate program.

An introduction to techniques and media of the medical illustrator, including line, continuous tone, and color, using traditional materials and electronic media. The accurate and aesthetic presentation and preparation of visual biomedical information for publication and projection is stressed.

MIL 6651. Medical Illustration Techniques IB (1-8-0-3)
Prerequisite: MIL 6650.

An introduction to techniques and media of the medical illustrator, including line, continuous tone, and color using traditional materials and electronic media. The accurate and aesthetic presentation and preparation of visual biomedical information for publication and projection is stressed.

MIL 6658. Tri-Dimensional Techniques (1-8-0-3)
Prerequisite: Elective; permission of instructor.
An introduction to the techniques and media used in creating and producing three-dimensional bioscientific materials, including facial prosthetics.

MIL 6670. Electronic Media I (2-4-0-3)
Prerequisite: Admission to the graduate program.
Introduction to the terminology, concepts, and techniques of computer graphics, with emphasis on the software currently used in the field of Medical Illustration for two-dimensional images. Course will also cover current storage and output considerations.

MIL 6671. Electronic Media II (2-4-0-3)
Prerequisite: MIL 6670.
Advanced concepts and techniques of computer graphics, with emphasis on the software currently used in the field of medical illustration for two-dimensional, as well as three-dimensional images.

MIL 6780. Surgical Techniques (1-2-0-2)
Prerequisite: Admission to the graduate program.
An orientation to surgery in which the student performs several procedures on laboratory animals, utilizing standard equipment, materials and techniques.

MIL 7650. Surgical Observation And Sketching I (1-8-0-3)
Prerequisite: MIL 6650, 6651, and 6780.
The observation and sketching of surgical procedures in the operating rooms and related visual references in the clinics and laboratories of the medical center. The sketches are used as reference material for illustrations accomplished in MIL 7660, 7661, and 9210.

MIL 7651. Surgical Observation And Sketching II (0-8-0-2)
Prerequisite: MIL 7650.
The observation and sketching of surgical procedures in the operating rooms and related visual references in the clinics and laboratories of the medical center. The sketches are used as reference material for illustrations accomplished in MIL 7660, 7661, and 9210.

MIL 7660. Medical Illustration Techniques IIA (1-8-0-3)
Prerequisite: MIL 6651.
A studio experience in which the student utilizes a variety of art media and techniques in preparing medical illustrations that meet stated objectives. Emphasis is on application of techniques to practical assignments and on problem-solving.

MIL 7661. Medical Illustration Techniques IIB (1-8-0-3)
Prerequisite: MIL 7660.
A studio experience in which the student utilizes a variety of art media and techniques in preparing medical illustrations that meet stated objectives. Emphasis is on application of techniques to practical assignments and on problem-solving.

MIL 7670. Multimedia I (2-4-0-3)
Prerequisite: Admission to the graduate program.
Introduction to the terminology, concepts and techniques of animated computer graphics, with emphasis on the software currently used in the field of medical illustration for animation and interactive title construction. Course will also cover script writing, story boarding, interface design and output considerations.

MIL 7671. Multimedia II (2-4-0-3)
Prerequisite: MIL 7670.
Advanced concepts and techniques of computer animation and internet graphics, with emphasis on production of an interactive title.

MIL 8020. Learning Resource Management (1-4-0-2)
Prerequisite: Permission of instructor.
An overview of current instructional technology with emphasis on audiovisual resources. Management procedures and business practices for institutional and self-employment illustrators are covered. Issues related to ethics, copyright, contracts and negotiation are explored.

MIL 9210. Investigation Of A Problem (0-8-0-2)
Prerequisite: Admission to the graduate program.
Independent study demonstrating competency in creating and producing bioscientific images for visual communication media in specific technique and subject matter areas.

MIL 9250. Master's Project (variable credit, 1-4)
Prerequisite: Admission to the graduate program.
A visual presentation of a bioscientific subject prepared in partial fulfillment of the requirements for the degree of Master of Science in Medical Illustration.
The curriculum also includes the course listed below which is offered through the Departments of Oral Pathology and Oral Biology, School of Dentistry.

ANM 7010. Medical Gross Anatomy
ANM 7030. Neuroanatomy (elective)
PHY 7030. Neurophysiology (elective)
ANM 8050. Cell Biology and Development
OBG 7220. General Pathology.

Physical Therapy (M.P.T.)

MPT 6010. Introduction To Physical Therapy (2-1-0-2)
Prerequisite: Completion of all previous M.P.T. course-

work or permission of the instructor.

Introduction to health care and health care systems designed to provide a frame of reference for physical therapy students. Ethics, legal aspects of health care, professionalism, illness - wellness concepts, communication and basic handling skills are included.

MPT 6020. Applied Anatomy (1-2-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Course is designed to relate practice of physical therapy to topics presented in Gross Anatomy.

MPT 6030. Dynamics Of Human Motion (1-4-0-3)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Study of normal human motion including biomechanical principles, kinesiology and normal gait.

MPT 6050. Human Physiology For Physical Therapy (2-2-0-3)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Physiology of key systems is reviewed for application to physical therapy. Exercise physiology, motor control, infection, inflammation, defense mechanisms, tissue healing and physiology of pain are used to demonstrate the way in which individual systems integrate to produce adaptive human behavior.

MPT 6100. Lifespan (1-2-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Study of human lifespan development from conception to death with emphasis on children under five years and adults over 55 years.

MPT 6140. Communication I (1-2-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Students are introduced to verbal, non-verbal and written communications used with clients, colleagues, and public. Skills are practiced prior to going to clinical setting; critical reading of professional literature is discussed and practiced.

MPT 6200. Legal And Ethical Issues Of Physical Therapy (1-1-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Study of differences between legal and ethical issues; legal and ethical dimensions of physical therapy practice; and regulation of legal and ethical codes and rules.

MPT 6310. Orthopedic Physical Therapy I (1-4-0-3)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Study of etiology, signs and symptoms of simple orthopedic problems; basic techniques used in the physical therapy evaluation and treatment of these problems; and methods of preventing potential problems.

MPT 6410. Medical And Surgical Physical Therapy I (2-7-0-5)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Students will learn the etiology, signs, symptoms, gross medical management and physical therapy management of selected medical and surgical problems, including the problems (system by system) associated with prolonged bed rest or immobilization. Emphasis will be placed on cardiac, pulmonary (excluding pulmonary rehabilitation), wounds, endocrine, infectious and inflammatory diseases, acute care issues. Case study simulations will focus on the physical therapy management of selected high incidence disease and problems.

MPT 7010. Seminar In Physical Therapy 1 (1-0-0-1)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

A graduate student colloquium to provide an opportunity for the discussion of current professional literature and issues in physical therapy.

MPT 7020. Seminar In Physical Therapy 2 (1-0-0-1)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Graduate student colloquium to provide an opportunity for the discussion of current professional literature and issues in physical therapy.

MPT 7030. Seminar In Physical Therapy 3 (1-0-0-1)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Graduate student colloquium to provide an opportunity for the discussion of current professional literature and issues in physical therapy.

MPT 7040. Seminar In Physical Therapy 4 (1-0-0-1)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Graduate student colloquium to provide an opportunity for the discussion of current professional literature and issues in physical therapy.

MPT 7050. Seminar In Physical Therapy 5 (1-0-0-1)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Graduate student colloquium to provide an opportunity for the discussion of current professional literature and issues in physical therapy.

MPT 7060. Seminar In Physical Therapy 6 (1-0-0-1)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Graduate student colloquium to provide an opportunity for the discussion of current professional literature and issues in physical therapy.

MPT 7100. Teaching And Learning (2-5-0-2)
Prerequisite: Completion of all previous M.P.T. course work or permission of the instructor.

Students will be introduced to setting educational

goals and objectives, teaching strategies, learning theories, outcome evaluations, and feedback. Small groups will plan, present, and evaluate educational experiences.

MPT 7140. Communications 2 (0-3-0-1)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Students continue to explore and develop communication skills. Special emphasis is placed on self-awareness, responses to various cultural biases, and responses to patients with catastrophic illnesses. Additionally, skills required for clinical services are addressed.

MPT 7210. Electrotherapeutics (2-1-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Study of neurological bases for electrotherapeutic techniques and electrodiagnostic tests as they relate to practice of physical therapy, practice of selected therapeutic and diagnostic techniques, as they relate to specific physical therapy problems.

MPT 7260. Professional Roles And Responsibilities (2-4-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Explores meaning of being a professional and looks at roles of health care professionals in wellness, disease/disability prevention, patient care, professional activities, and community activities. Emphasis is on profession of physical therapy.

MPT 7310. Orthopedic Physical Therapy II (3-8-0-6)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Study of the etiology, signs, symptoms, and medical management of complex orthopedic problems; techniques used in physical therapy evaluation and treatment of these problems; and methods of preventing potential problems.

MPT 7350. Research I (2-8-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Students will identify problem to be studied, develop hypothesis, conduct literature search and write research proposal.

MPT 7410. Medical And Surgical Physical Therapy II (3-7-0-6)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Study the etiology, signs, symptoms, and physical therapy management of complex medical and surgical problems. Special emphasis is placed on chronic pulmonary problems, peripheral vascular disease, amputations, and patients with multiple, medical or surgical problems.

MPT 7460. Management Of Physical Therapy Services I (2-5-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Study and practice of basic management principles and techniques as they relate to the practice of physical therapy in particular and health care systems in general.

MPT 7600. Neuroscience For Physical Therapists (2-0-0-1)
Prerequisite: The completion of all previous M.P.T. coursework or permission of the instructor.
Study of human motor control; neuroanatomical and neurophysiological bases for motor control; and signs of undeveloped or damaged control mechanisms.

MPT 7610. Neurological Physical Therapy I (2-5-0-4)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Study of the etiology, signs, symptoms, medical management of selected neurological problems; techniques used in physical therapy evaluation and treatment of these problems; and prevention of potential related problems.

MPT 7620. Pediatric Physical Therapy (2-6-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Study of the etiology, signs, symptoms and medical management of selected pediatric problems, techniques used in the physical therapy evaluation and management of these problems and the prevention of potential related problems.

MPT 7630. Neurological Physical Therapy 2 (2-8-0-3)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Study of the etiology, signs, symptoms and medical management of spinal cord injuries; techniques used in physical therapy management of patients with spinal cord injuries; and prevention of potential related problems.

MPT 7700. Clinical Experience I (0-0-40-6)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Students are assigned to clinical facilities where, under the direct supervision of a physical therapist, they use the knowledge and skills learned in the classroom to evaluate and treat simple orthopedic, medical and surgical problems. They document their work using proper format and terminology and to research information about problems with which they are unfamiliar.

MPT 7710. Clinical Experience II (0-0-40-8)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.
Students are assigned to clinical facilities where, under the direct supervision of a physical therapist,

they use the knowledge and skills learned in the classroom to evaluate and treat medical and surgical problems with emphasis on orthopedic conditions. They document their work using proper format and terminology, research information about problems with which they are unfamiliar, perform other duties pertinent to the duties of a physical therapist.

MPT 8460. Management Of Physical Therapy Services 2 (2-4-0-4)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor..

Forum for in-depth study of current health care delivery system, including political and economic factors which influence system reform. Changing role of physical therapy within larger healthcare system is analyzed, and issues pertaining to independent physical therapy practice are examined.

MPT 8500. Complex Patient Problems (1-2-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Integrate information related to human physiology, kinesiology, and pathology from the cellular level to the societal level. Challenges student to sort through complex patient cases involving multiple medical or surgical problems.

MPT 8600. Elective (1-2-0-2)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Individually designed work in physical therapy or health care of special interest to the student. Study may be in areas related to practice, administration or education.

MPT 8700. Clinical Experience 3 (0-0-40-12)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Full time clinical practice in one or more clinical facilities. Students work with a wide variety of patients in different practice situations and are involved in patient care, administration and education as appropriate to the clinical facility.

MPT 9250. Research 2 (1-5-0-3)
Prerequisite: Completion of all previous M.P.T. coursework or permission of the instructor.

Students obtain institutional approval for a specific research project, collect and analyze data, present an oral report to faculty and peers, and develop written presentation of findings in appropriate research journal article format.

Interdepartmental Courses for M.S. and M.H.E. Students in Allied Health Sciences

AHS 7000. Health Care Administration and Management (3-0-0-3)
This course applies the case study approach to examining the issues of leadership in a hyperturbulent health care industry. The roles and functions of management are addressed through application of relevant case histories. Particular emphasis is placed on the philosophies and concepts of transformational leadership, as well as the moral and ethical issues affecting governance and management. The emergence of collegial interaction within and between operational units will be detailed, in which Total Quality Management (TQM) will be presented as the current model.

AHS 9010. Research Seminar (2-0-0-2)
Prerequisite: Statistics courses.

Phenomena relevant to allied health investigators are discussed. Emphasis is placed on identifying researchable problems and research strategies.

AHS 9020. Methods Of Research (3-0-0-3)
Prerequisite: Statistics courses (one course may be concurrent with AHS 9020).

The systematic examination of the research process and methodologies appropriate to allied health professions. Emphasis is placed upon the interrelationship among the components of the research process. Learning experiences include the critical analysis of research studies and the development of research proposal.

AHS 9050 Seminar in Health Professions Education (1-0-0-1)
Through readings, discussions, and student presentations, the unique aspects of professional education will be explored. The contributions to professional education from pedagogy, andragogy, behaviorism, humanism, and other pertinent philosophies will be discussed.

AHS 9100. Research Practicum (variable credit, 1-5)
Prerequisite: AHS 9020 (may be concurrent).

Enables students to pursue in depth the area (clinical, laboratory, community) and/or populations relevant to their research interests. Must be approved by the student's major advisor prior to registration for the course.

AHS 9210. Investigation Of A Problem (variable credit, 1-4)
Prerequisite: Enrollment in M.S. program; approval of major advisor.

Investigation of a topic of particular interest to the individual student's area of study. The topic, activities to be undertaken, and evaluation methods will be determined collaboratively by the student, major advisor, and tutorial faculty member if one is involved.

AHS 9300. Thesis (0-0-0-4)
Prerequisite: Completion of required course work; research proposal approved by student's committee.

Application of the formal research process in conducting a study in the area of allied health profession(s) theory, practice, education, or management. The thesis must adhere to the format specified by the School of Graduate Studies, and be of publishable quality.

Dental Hygiene/Dental Major (M.S. and M.H.E.)

ADS 8000. Clinical Dental Hygiene (2-0-4-3)
Prerequisite: Admission to the program.
Designed to provide the background knowledge, competencies and attributes needed in a variety of settings essential for clinical dental hygiene instructors.

ADS 8020. Applied Project In Dental Hygiene (2-2-0-3)
Prerequisite: Admission to the program.
An independent project utilizing audio visual, computer and/or interactive resources to develop a module of instruction which can serve as a self instructional unit, curriculum enrichment project.

ADS 8030. Dental Hygiene Leadership (3-0-0-3)
Prerequisite: Education psychology and teaching experience in a dental hygiene program.
A forum-laboratory in which to discuss and test current concepts in academic dental hygiene programs. Application of principles of behavioral sciences, communication and management to the problems of designing, developing, administering, and evaluating a dental hygiene program.

ADS 8090. Advanced Clinical Field Experience (2-0-4-3)
Prerequisite: Admission to the program.
Individually designed to provide management and clinical experiences at area hospitals, institutions, or public health agency to fit supervisory and/or clinical interests of the student. The project is co-supervised by an appropriate member of the medical/dental faculty; institution or agency personnel; and department staff.

ADS 9250. Project In Dental Hygiene (variable credit, 1-4)
Prerequisite: AHS9010 Research Seminar; statistic course(s); proposal accepted by the student's committee.
This course requires the satisfactory completion of an original project in dental hygiene. Results of the study and a critical review of the pertinent literature are incorporated into the student's work. The study must be of publishable quality.

Physician Assistant (M.S.)

PAD 8022. Concepts In Health Care Delivery (3-0-0-3)
Prerequisite: Admission to graduate program.
A course for health care professionals on the non-technical aspects of health care. Examples of topics to be covered are areas in quality assurance, risk management, Medicaid, Medicare, other third party payors, home health care, malpractice, ethics, etc.

PAD 8023. Geriatrics (3-0-0-3)
Prerequisite: Admission to graduate program.
Focus of course is on primary care geriatrics. It will be conducted in a symposium format with opportunity for class/group discussion. There will be take-home assignments including a take-home examination. This will be a practice case management approach.

PAD 8024. Health Promotion And Disease Prevention (3-0-0-3)
Prerequisite: Admission to graduate program.
Course is designed to help develop skills to enable students to incorporate health promotion and disease prevention into clinical practice. They will do research into available community resources for possible referrals.

PAD 8027. Occupational/Industrial Medicine Clinical Practicum (0-0-6-3)
Prerequisite: B.S. and P.A. graduate of an accredited program.
Designed to expose the student to the role of the physician assistant in an occupational or industrial setting. The student will work under the supervision of the physician preceptor learning to evaluate and manage patients and to evaluate the workplace from a health, safety, and ergonomic standpoint.

PAD 8028. Rural Health/Independent Study Clinical (0-0-6-3)
Prerequisite: B.S. and P.A. graduate of an accredited program.
Supervised exposure to a population of patients with undifferentiated health problems and participation in the evaluation and management of those problems. The student becomes more aware of the uniqueness of rural health care practice.

PAD 8048. Psychosocial Issues In Medicine (3-0-0-3)
Prerequisite: Admission to graduate program.
Survey of more common psychosocial problems encountered by health professionals. Students will participate in lectures, discussions, role-playing, and case studies. There will be an emphasis on improving communication skills, development of counseling skills, and integration of knowledge of psychosocial principles with the clinical situation.

Radiologic Technologies (M.S.)

RAD 6401. Clinical Imaging Correlation (2-4-0-4)
Prerequisite: Certification by a national certifying organization in a radiologic technology profession.
The course will provide an in-depth study of diagnostic imaging with particular attention given to correlation of various imaging modalities. The student will make a study of patient parameters and physical principles that affect image quality.

RAD 6403. Overview Of Sonograph Services (1-0-8-3)
Prerequisite: Certification by a national certifying organization in a radiologic technology profession, other than diagnostic medical sonography.
This course will be tailored to primarily fit the needs

of the radiologic technology professional who desires an understanding of sonography. Subject matter includes an overview of physics, cardiovascular, abdominal, and OB/GYN sonography. This course will require clinical rotations but will not lead to clinical proficiency in any area of sonologic examinations.

RAD 7501. Research Techniques In Diagnostic Imaging (variable credit, 2-4)
Prerequisite: Completion of at least one course in research statistics or permission of advisor.

The student will be introduced to research techniques utilized in diagnostic imaging through problem solving exercises in the areas of clinical management, quality assurance, or technology. Students will work as individuals and/or in groups.

RAD 9250. Applied Project In Diagnostic Imaging (variable credit, 1-4)
Prerequisite: Approval of advisory committee.

The student will develop, with the assistance of his/her advisor, a project related to diagnostic imaging protocols. Projects may be based on clinical utility, case management, education, or administrative functions of diagnostic imaging.

Respiratory Therapy (M.S.)

RTH 7500. Research Techniques In Respiratory Care (3-0-0-3)
Prerequisite: STA 6800, STA 6810, or AHS 9020 and permission of the department. R.R.T. certified.

This course is designed to assist the graduate student in formulating a research topic in respiratory care and then reviewing the related literature.

RTH 8000. Techniques In Extracorporeal Membrane Oxygenation (1-4-0-3)
Prerequisite: PHM 8100, PHY 8020, PHY 8060, Neonatal/Perinatal Respiratory Care, R.R.T. certified.

This course is designed to familiarize the student with the technique of Extracorporeal Membrane Oxygenation (ECMO), its moral, ethical, and legal implications, as well as impart clinical skills necessary to perform ECMO at the patient's bedside.

RTH 8140. Research And Pulmonary Function Testing (3-0-0-3)
Prerequisite: R.R.T. certified with undergraduate course in pulmonary function testing or equivalent, STA 6800, and STA 6810.

An in-depth review and evaluation of pulmonary function testing (PFT) procedures for the purpose of developing research utilizing PFT equipment.

RTH 8141. Research And Pulmonary Function Testing Lab (0-5-0-2)
Prerequisite: R.R.T. certified with undergraduate course in pulmonary function testing or equivalent, STA 6800, and STA 6810.

Labs will be designed to gain proficiency in selected PFT procedures, quality control and calibration of equipment, and designing pilot studies consistent with course required research proposals.

RTH 8170. Advanced Neonatal/Perinatal Care (2-2-0-3)
Prerequisite: RTH 4417 Newborn/Pediatric Respiratory Care or similar undergraduate course, R.R.T. certified.

This course will be an in-depth look at neonatal and perinatal respiratory care, stressing neonatal pulmonary function testing, neonatal resuscitation, and advanced ventilatory techniques.

Health Information Management (M.S., M.H.E.)

HIM 7020. Program/Department Development (3-0-0-3)
Analysis of various theories regarding planning hierarchies; the organizing, directing, and controlling functions of departmental development and management.

HIM 7050. Advanced Theory/Change In Health Information Management (3-0-0-3)
Analysis of various theoretical perspectives, directions, sources, processes, patterns, and consequences of change in health information management. Emphasizes certain aspects of change, such as trends in third party reimbursement.

HIM 7100. Quality Management In Health Care (3-0-0-3)
Quality management in health care is rapidly changing. This course examines quality in the healthcare setting: its processes and related components such as utilization review and risk management; its cultural supports; and related data management requirements.

HIM 7200. Health Informatics (3-0-0-3)
Survey course in the application of information technology to patient care, public health, and management in health services organizations. The course is designed to develop student understanding of the utilization and management of patient information systems. It includes trends in medical informatics.

HIM 9210. Applied Problem In Health Information Management (variable credit, 1-4)
Investigation of a topic of particular interest to the student's area of study. The topic and plan must be approved by the student's advisory committee.

HIM 9300. Thesis (variable credit, 1-4)
Application of the formal research process in conducting a study in health information management.

Medical Technology (M.S., M.H.E.)

MTCG 8140. Flow Cytometry (2-4-0-4)
Prerequisite: Statistics, research methods, immunology, hematology, M.T. certification, graduate student status.

This course covers an introduction to instrumentation, principles, and clinical and research applications. The student receives basic instruction in all phases of specimen preparation, quality control procedures, reagents, and troubleshooting. Additionally, the student will be introduced to data interpretation, statistics, DNA and phenotype marker technique.

MTCG 8340. Laboratory Administration (1-0-5-2)
This course provides a review of management concepts and terminology, and the opportunity to identify and address a clinical laboratory management problem. Management techniques are used to develop an appropriate method or device to be used in solving the problem. Written communication skills are stressed.

MTCG 8440. Clinical Microbiology (2-4-0-4)
Prerequisite: Microbiology course and permission of instructor. Advanced course in clinical microbiology.
The student will learn latest developments in technical and managerial aspects of the microbiology laboratory (attend lectures and take examinations, quizzes, and participate in case study discussions). The student will present two lectures on topics assigned by the instructor and will also complete a project as assigned by the instructor.

MTCG 8540. Clinical Immunology (2-4-0-4)
Prerequisite: Statistics, research methods, immunology
The essential concepts of the human immune system. Includes the structure and function of the organs and cells that comprise the immune system; humoral and cellular response; inflammatory response; host resistance to viral, fungal, bacterial, tubercule and neoplastic disease; immune disorders; transplantation and tumor immunology; clinical immunological lab tests. Lab exercises are individually designed projects in immunology. A library research paper and oral presentation of the paper are required.

MTCG 8640. Clinical Chemistry (2-4-0-4)
Prerequisite: Admitted to graduate school, or permission of the instructor.
Advanced theory and principles of biochemical analysis and its application in diagnosing, treating, monitoring and preventing a disease. The course includes lecture, hospital clinical chemistry laboratory experience and completion of a research project.

MTCG 8740. Clinical Immunohematology (2-4-0-4)
Prerequisite: Statistics, research methods, immunology strongly suggested.
The course provides the graduate student with the opportunity to study and develop advanced blood banking skills through research and teaching.

MTCG 8840. Clinical Hematology (2-4-0-4)
Prerequisite: Biochemistry, admission into graduate program, previous study of hematology, or permission of instructor; in conjunction with MTCP Basic Hematology and Fluid Analysis, and MTCC4840 Advanced Hematology.
Clinical Hematology provides the student with advanced concepts in the practical application of hematology, hemostasis, and fluid analysis. The student actively participates in course design and presentation by presenting selected topics in both didactic and laboratory practice. A research paper or acceptable alternative is required with oral presentation. The course is tailored to meet the student's interests and needs.

MTCG 9210. Investigation Of A Problem (0-0-1-4)
Prerequisite: Must have completed research tools requirement for graduate student or permission of the program director
This course will allow the student to register for variable hours to develop a research proposal, conduct library search, collect research data, analyze and interpret the data, and write a research paper/article.

Occupational Therapy (M.S., M.H.E.)

OTH 8000. Occupational Therapy Seminar (1-0-0-1)
Prerequisite: Admission to graduate program.
Students begin the research process in collaboration with faculty by clearly defining a problem or question of interest and initiating a literature review, and by determining a course of study.

OTH 8010. Philosophical And Theoretical Bases Of Occupational Therapy I (3-0-0-3)
Prerequisite: Admission to graduate program.
Investigation of the philosophies and theoretical bases underlying occupational therapy. Students will actively examine historical developments through in-depth literature review and will analyze selected theoretical bases associated with the practice of occupational therapy.

OTH 8020. Philosophical And Theoretical Bases Of Occupational Therapy II (3-0-0-3)
Prerequisite: OTH 8010.
Further examination of the philosophies and theoretical bases underlying occupational therapy. Students will examine current and developing philosophies and theories in occupational therapy. Students will analyze selected theoretical bases related to OT practice.

OTH 8030. Program Development And Evaluation (3-0-0-3)
Prerequisite: Admission to graduate program.
Students apply standards and principles of program development and evaluation to construction and evaluation of selected components of clinical programs, fieldwork education programs and academic programs. Current legal and ethical issues are discussed.

OTH 8100. Independent Study (variable credit, 1-3)
Prerequisite: Admission to graduate program.
Investigation of a special problem related to occupational therapy clinical practice, management, education or research.

OTH 8110. Special Studies In Occupational Therapy
(variable credit, 1-3)
Prerequisite: Admission to graduate program.
Investigation of a topic of particular interest to the individual student's area of study in occupational therapy

OTH 8120. Special Studies In Advanced Treatment Approaches (variable credit, 1-3)
Prerequisite: Admission to graduate program.
Individual investigation into new and/or specialized treatment approaches or techniques. Includes practical experiences.

OTH 8130. Special Studies In Health Care
(variable credit, 1-3)
Prerequisite: Admission to graduate program.
Individual investigation into current and proposed health care approaches and issues. Includes roles for the occupational therapist.

OTH 8200. Management Of Fieldwork Education
(2-0-3-3)
Prerequisite: Admission to the program.
Discussion and application of principles of program design and evaluation to fieldwork education. Includes discussion of supervision processes and related issues.

OTH 9210. Investigation Of A Problem
(variable credit, 1-3)
Prerequisite: Admission to the program.
Investigation of a topic of particular interest to the individual student's area of study.

OTH 9250. Applied Project In Occupational Therapy
(variable credit, 1-3)
Prerequisite: Completion of required course work and approval of student's committee.
Independent development of a project in occupational therapy through the application of the problem-solving process or application of the formal research process in conducting a study in the area of occupational therapy theory, practice or education

OTH 9300. Thesis In Occupational Therapy
(variable credit, 1-4)
Prerequisite: Completion of required course work and approval of student's committee.
Application of the formal research process in conducting a study in the area of occupational therapy theory, practice, or education. The thesis must adhere to the format specified by the School of Graduate Studies.

Physical Therapy (M.S., M.H.E.)

GPT 8201. Advanced Analysis Of Musculoskeletal Function (variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing musculoskeletal performance. In-depth study of selected anatomical structures and related biomechanical and kinesiological concepts.

GPT 8202. Advanced Analysis Of Temporomandibular Joint Function (variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing temporomandibular joint function in-depth study of selected anatomical structures and related biomechanical and kinesiological concepts.

GPT 8203. Advanced Analysis Of Cervical Spine Function (variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing cervical spine function. In-depth study of selected anatomical structures and related biomechanical and kinesiological concepts.

GPT 8204. Advanced Analysis Of Spinal Function
(variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing spinal function. In-depth study of selected anatomical structures and related biomedical and kinesiological concepts.

GPT 8205. Advanced Analysis Of Lumbar Spine And Sacro-Iliac Function (variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing lumbar spine and sacro-iliac function. In-depth study of selected anatomical structures and related biomechanical and kinesiological concepts.

GPT 8206. Advanced Analysis Of Shoulder Function (variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing shoulder function. In-depth study of selected anatomical structures and related biomechanical and kinesiological concepts.

GPT 8207. Advanced Analysis Of Elbow Function
(variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing elbow function. In-depth study of selected anatomical structures and related biomechanical and kinesiological concepts.

GPT 8208. Advanced Analysis Of Wrist And Hand Function (variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing wrist and hand function. In-depth study of selected anatomical structures and related biomechanical and kinesiological concepts.

GPT 8209. Advanced Analysis Of Hip Function (variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing hip function. In-depth study of selected anatomical structures and related biomechanical and kinesiological concepts.

GPT 8210. Advanced Analysis Of Knee Function (variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing knee function. In-depth study of selected anatomical structures and related biomechanical and kinesiological concepts.

GPT 8211. Advanced Analysis Of Foot And Ankle Function (variable credit, 1-3)
Prerequisite: Permission of instructor.
The study of the major concepts, skills and techniques involved in analyzing foot and ankle function. In-depth study of selected anatomical structures an related biomechanical and kinesiological concepts.

GPT 8300. Clinical Research Techniques (2-0-0-2)
Prerequisite: AHS 9020 or equivalent.
A practical approach to research techniques required to perform clinical research including formulation, application and analysis of specific research designs; computerized statistical analysis of data from specific research designs; analysis of descriptive characteristics of populations, samples and sampling distributions; basic probability appropriate for clinical predictions; and laboratory projects emphasizing sample analysis, study designs and computerized data analysis.

GPT 8401. Designing Clinical Education Experiences (2-2-0-3)
Prerequisite: EDU 7000, 7001.
Exposure to all aspects of clinical education, including but not limited to theoretical consideration, practical considerations, plan and design of effective experiences, implementation and evaluation of clinical learning experiences.

GPT 8402. Curriculum Design In Physical Therapy (2-2-0-3)
Prerequisite: EDU 7000.
A review of curriculum designs in physical therapy education with special emphasis on competency-based education. Relation of theories of curriculum design to physical therapy and physical therapist assistant education.

GPT 8500. Special Studies In Patient Management (variable credit, 2-4)
Prerequisite: Permission of instructor
Individual investigation into new or specialized patient management processes related to any area of specialization.

GPT 8910. Design Of Graduate Program (1-0-0-1)
Prerequisite: Admission into the M.H.E. or M.S. program in physical therapy.
In this course you will design your course of graduate study. By the end of the course you will have a specific plan of study that has been approved by your committee.

GPT 9100. Independent Study (variable credit, 1-3)
Prerequisite: Permission of instructor.
Individually designed work in some area of physical therapy or health care of special interest to the student. Study may be in areas related to practice, administration or education.

GPT 9110. Advanced Therapeutic Processes 1 (0-0-36-3)
Prerequisite: Permission of instructor.
Each student selects an area of specialization in physical therapy practice from musculoskeletal; neuro-physiological; or general. The student gains advanced knowledge of theories of practice related to the specialty area. Learning experiences individually designed for the study of new or specialized assessment and treatment procedures.

GPT 9120. Advanced Therapeutic Processes 2 (0-0-36-3)
Prerequisite: Permission of instructor.
Each student selects an area of specialization in physical therapy practice from musculoskeletal; neuro-physiological; or general. The student gains advanced knowledge of theories of practice related to the specialty area. Learning experiences individually designed for the study of new or specialized assessment and treatment procedures.

GPT 9210. Investigation Of A Problem (variable credit, 1-3)
Prerequisite: Permission of instructor.
Investigation of a special problem related to physical therapy clinical practice, management, education or professional practice.

Nursing (Ph.D.) Courses

NSG 8000. Philosophical and Theoretical Foundations of Nursing (4-0-0-4)
Prerequisite: Admission to doctoral program or consent of the instructor.
Analysis of major philosophies of science as foundations for nursing knowledge. Focuses on influence and applicability to nursing of a variety of positivist, post-positivist and post-modern views on the nature of scientific thought and progress. Examines examples for their explanatory relevance to the development of nursing as a science. Theoretical frameworks used in nursing analyzed for adequacy and usefulness. Examines problems of meaning, interpretation and contextual issues in nursing theory. Students explore selected philosophical and theoretical issues of importance to nursing.

NSG 8090. Adaptation to Stress in Health and Illness (3-0-0-3)

Prerequisite: Admission to doctoral program.

Analyzes selected theories of stress, coping and adaptation. Stress research critically reviewed with attention to behavioral, cognitive, social and physiologic variables. Explores relevance of stress theory and research for nursing interventions in health and illness. Emphasizes implications for correlational and experimental nursing research.

NSG 8110. Theory Development and Research Design (3-0-0-3)

Prerequisite: NSG 8000: Philosophical and Theoretical Foundations of Nursing.

Advances theory development and research design knowledge. Examines approaches to theory construction in quantitative and qualitative research. Emphasizes development of a study proposal demonstrating logical links between the steps in a selected research process.

NSG 8200. Qualitative Design and Analysis (4-0-0-4)

Prerequisite: NSG 8000: Philosophical and Theoretical Foundations of Nursing.

Critical analysis of epistemologic basis of qualitative paradigms. Emphasizes research design, data collection, analysis, interpretation and evaluation. Examines ethical and cross-cultural issues and their unique relationship to qualitative research. Field work assignment of data collection and analysis provides opportunity to apply theoretical learning. Students can learn qualitative computer programs to assist in data management.

NSG 8210. Quantitative Research Designs and Methods of Analysis I (3-0-2-4)

Prerequisite: Inferential Statistics.

First of two courses providing a detailed analysis of quantitative research designs and methods of analysis used in nursing science. Covers sampling designs, methods of data collection, advantages and disadvantages and sources of error for each design. Students can analyze data associated with various research designs in a computer laboratory setting. Students can interpret data based on descriptive and correlational methods of analysis.

NSG 8211. Quantitative Research Designs and Methods of Analysis II (3-0-2-4)

Prerequisite: Inferential Statistics; Multivariate Statistics.

Second of two courses providing detailed analysis of quantitative research designs and methods used in nursing science. Discusses use and interpretation of univariate and multivariate methods of data analysis, including their advantages, disadvantages and appropriate applications in correlational, quasi-experimental and experimental studies. Examines validity of statistical conclusions drawn from analyses. Includes analysis methods for cross-sectional and longitudinal research designs.

NSG 8300. Practicum in Nursing Research (variable credit, 1-4)

Prerequisite: Completion of first comprehensive exam.

In-depth examination of investigative topic of particular interest to student's area of study. Questions for study and the method undertaken determined collaboratively by student and research mentor.

NSG 8410. Human Development Across the Life Span (3-0-0-3)

Detailed analysis of theories, research methods and findings of research on development of individual across the life span. Focuses on available research on biological, social and environmental processes influencing human development. Examines research methodologies for studying complex developmental processes across the life span and in varying environmental contexts.

NSG 8460. Cross-Cultural Health Beliefs and Practices (3-0-0-3)

Prerequisite: Admission to doctoral program or consent of instructor.

Analyzes research studies of beliefs, values and behaviors related to health, illness and healing cross-culturally. Examines selected theories of culture and health for their usefulness in nursing. Discussions and readings focus on research studies of health and illness in diverse cultural groups. Issues related to the ontological status of ideological systems critically reviewed and their relevance to qualitative nursing research emphasized. The relevance of contextualization of experiences, the "other" and the impact of post-modernism on theories of culture explored, particularly their relation to nursing theory and research.

NSG 8480. Health Promotion Across the Lifespan (3-0-0-3)

Prerequisite: Admission to doctoral program or consent of instructor.

Critically reviews models, theories and research with healthy populations, focusing on physiological, social, psychological and cultural variables related to health, wellness and health promotion in individuals and groups throughout the life span. Examines research related to health promotion as studies relate to nursing interventions with healthy populations. Analyzes selected theories of health promotion with attention to behavioral variables, personal attributes and community as partner.

NSG 8600. Health Care Systems, Policies and Priorities (3-0-0-3)

Prerequisite: Admission to doctoral program in nursing.

Critically examines the health care system. Emphasizes the political, economic, social, cultural and regulation factors impacting the system. Addresses health care policy formulation and implementation at international, national and state levels. Evaluates health care priorities related to health promotion and disease prevention.

NSG 8690. Critical and Feminist Inquiry in Nursing (3-0-0-3)
Prerequisite: Admission to doctoral program.
Advanced qualitative research course to develop critical scholarship. Feminist inquiry in nursing challenges social relations, behavior and use of research in applied profession. Students critique ways of knowing in nursing research. Focuses on problems of meaning, interpretation and contextual issues related to a critical understanding of reality. Readings and experiences increase skills for critical thinking and reflection as part of research process.

NSG 8710. Human Development and Aging (3-0-0-3)
Prerequisite: Admission to the Doctoral Program in Nursing.
Analysis of biological, psychological, social and cultural theories of aging and health. Chronic illnesses common to older populations and associated physical, cognitive and emotional decline analyzed through research reports of various disciplines. Students develop research questions/hypotheses relevant to aging and nursing science. Research methodologies appropriate to aging clients critiqued and defended for a chosen area of investigation.

NSG 8800. Ethical Issues in Health Care (3-0-0-3)
Prerequisite: Admission to the doctoral program or consent of instructor.
Analyzes major ethical theories and principles as they impact nursing, the health care system and society. Examines major ethical theories and principles within context of health care. Explores moral reasoning and ethical practice as they relate to extant philosophies and theories used in nursing. Students explore selected philosophical and theoretical issues of importance to nursing, including existential advocacy, ethical realism, bioethical standards, individual autonomy, informed consent and decision-making. Case studies utilized.

NSG 8830. Family Development and Health (3-0-0-3)
Prerequisite: Admission to doctoral program.
Theoretical and methodological perspectives on families and health. Examines research in families experiencing situational and developmental transitions. Emphasizes role of nursing science in addressing family models and family-oriented research.

NSG 9010. Seminar in Nursing (variable credit, 1-5)
Prerequisite: Completion of first comprehensive exam.
Students pursue in-depth a topic relevant to major area of concentration and interest.

NSG 9100. Independent Study (variable credit, 1-3)
Prerequisite: Completion of at least one course in graduate program in nursing.
Students study further a topic introduced in earlier course work, or pursue an area of interest (compatible with area of concentration) for which course work is not available.

NSG 9210. Investigative Project (variable credit, 1-3)
Prerequisite: Admission to candidacy.
Systematic inquiry and examination of conceptual or clinical problem related to the practice of nursing. The project must be the original work of the student. Examples of investigative projects are a manuscript submitted for publication, patient educational program or professional educational program. The final product may be reported in a non-traditional format the format will make the findings more accessible and acceptable for use by the nursing community.

NSG 9220. Supervised Research (variable credit, 1-3)
Prerequisite: Admission to candidacy.
Faculty guide students through a research experience. Emphasizes participation as a member of an ongoing research team.

NSG 9300. Research-Thesis (variable credit, 1-10)
Prerequisite: Admission to candidacy.
Entire research process is used to investigate a research question including theoretical or conceptual framework and data collection. Follows standard written format for reporting of findings.

Core Courses Required for all Nursing (M.S.N., M.N.) Courses

NSG 7030. Delivery Systems and Models of Health Care (2-0-0-2)
Prerequisite: Admission to School of Graduate Studies.
Basis for understanding the evolving health care system and nursing's role within the system. Emphasizes sociopolitical, economic, technological and legal/ethical concerns impacting delivery of U. S. health care.

NSG 7390. Pathophysiology for Advanced Practice Nurses (3-0-0-3)
Prerequisite: Admission to School of Graduate Studies.
System-focused pathophysiology course, management of common health problems, disease processes and syndromes. Foundation for clinical assessment, decision making and management of individual and family health problems. Student relates knowledge to the interpretation of human responses to situational, developmental and genetic stressors that alter biological life processes resulting in signs and symptoms of illness and in assessing the individual's response to pharmacologic management used to diagnose, treat and palliate these illnesses.

NSG 7430. Pharmacology for Advanced Practice Nursing (3-0-0-3)
Prerequisite: NSG 7390: Pathophysiology for

Advanced Practice Nursing or permission of instructor.

Increases knowledge base of advanced practice nurses in pharmacology and pharmacotherapeutics. Emphasizes pharmacotherapeutics for common acute and chronic health problems using prototype drugs within specific drug classifications. Discusses case studies of pathophysiological disorders and pharmacologic management.

NSG 7440. Theory and Research in Advanced Nursing Practice (3-0-0-3)

Prerequisite: Basic Statistics and graduate status.

Theoretical foundations of nursing and use of research findings in advanced nursing practice. Analyzes concepts, theories and models related to health of individuals and families. Emphasizes development of a scientific base for advanced nursing practice.

NSG 7470. Advanced Health Assessment (1-0-3-2)

Prerequisite: Graduate standing; undergraduate health assessment course.

Teaches students to perform comprehensive assessment of adults, make clinical decisions and document findings. Students practice advanced examination techniques used in conducting physical, mental-emotional, developmental, environmental, nutritional, cultural and risk assessments. Considers examples of ethics that impact health care issues by advanced-practice nurses in inpatient, emergency and primary care settings.

Adult Nursing (M.S.N.)

NSG 7830. Foundations of Advanced Nursing Practice (2-0-0-2)

Helps student develop clear understanding of advanced-practice roles, their requirements and regulations. Examines advanced practice roles of educator, clinician, consultant, administrator, collaborator, researcher, advocate, change agent, entrepreneur and case manager within the context of specific advanced-practice arena. Covers fluid boundaries, role ambiguity and interdisciplinary relationships. Professional behaviors and ethics discussed as a basis for professional role development.

NSG 7920. Complex Health Problems of Adults (2-0-6-4)

Prerequisite: Master's core, NSG 7430: Pharmacology and Foundations of Advanced Nursing Practice may be taken concurrently.

Enables students to provide research-based advanced nursing practice to young, middle-aged and older adult populations with common complex health problems. Emphasizes complex clinical analysis to develop and monitor comprehensive, holistic plans of care/critical paths that address health promotion, disease prevention and health restoration needs of this population. Students have opportunities in variety of settings for variance analysis to mobilize the health care system.

NSG 7930. Adult Nursing Clinical Nurse Specialist Residency (1-0-15-6)

Prerequisite: NSG 7940: Specialized Care in Adult Health.

Enables student to function efficiently as a CNS. The student negotiates, implements and evaluates a multidimensional CNS residency in a selected health care setting. Emphasizes synthesis of advanced practice roles and functions to effect change within health care systems. Students develop and work in collaborative and interdependent relationships.

NSG 7940. Specialized Care in Adult Health (2-0-6-4)

Prerequisite: NSG 7920: Complex Health Problems of Adults and NSG 7830: Foundations of Advanced Nursing Practice.

Provides in-depth knowledge and skills related to specific adult nursing specialty area. This specialty area is selected by student and course faculty. Students apply knowledge of advanced pathophysiology, pharmacology, health assessment, nursing interventions, theory and research to care of adults and their families experiencing health problems within chosen specialty area. Students can care for clients in a variety of settings. Students evaluate potential residency sites and develop plan for their CNS residency.

Anesthesia Nursing (M.N.)

NSG 6730. Introduction to Anesthesia Nursing (2-0-0-2)

Prerequisite: Admission to Nursing Anesthesia Program or permission of instructor.

Introduction to role of anesthetist as an advanced practice nurse. Overview of clinical anesthesia practice, exploring the role of nurse anesthetist within the context of health care system and introduces professional behaviors expected of all advanced practice nurses to include models for critical thinking, decision-making and communication.

NSG 6740. Anatomy and Physiology for Nurse Anesthetists (3-0-0-3)

Prerequisite: Admission to Nursing Anesthesia Program or permission of instructor.

Effect of anesthesia on normal adult anatomy and physiology explored in depth. Emphasizes systems particularly affected by anesthesia including the central, peripheral and autonomic nervous systems, cardiovascular, respiratory and renal systems. Builds on student's existing knowledge of anatomy and physiology.

NSG 6750. Chemistry, Physics and Biochemistry for Nurse Anesthetists (3-0-0-3)

Prerequisite: Admission to Nursing Anesthesia Program.

Provides registered nurses with the basis for understanding physiologic and pharmacologic principles underlying anesthesia nursing. Emphasizes concepts of chemistry, physics and biochemistry applicable to clinical practice of anesthesia nursing.

NSG 6760. Pharmacology of Anesthetic Agents (2-0-0-2)

Prerequisite: Admission to Nursing Anesthesia Program.

In-depth exploration of the pharmacologic properties, indications, contraindications and interactions of drugs used in anesthesia nursing. Includes: inhalation anesthetics, local anesthetics, narcotics, sedatives, anxiolytics and neuromuscular blockers.

NSG 6770. Cardiopulmonary Physiology and Pharmacology (1-3-0-2)

Prerequisite: Admission to Nursing Anesthesia Program or permission of instructor.

Effect of anesthetic administration upon normal and abnormal cardiovascular and respiratory function is studied in depth. Special emphasis is placed on advanced hemodynamic and pulmonary monitoring, flow volume and pressure volume relationships and pharmacologic interventions in both systems.

NSG 6780. Principles of Nursing Anesthesia I (3-3-0-4)

Prerequisite: NSG 6730: Introduction to Nursing Anesthesia; NSG 6810: Technology and Techniques in Nursing Anesthesia; NSG 6760: Pharmacology of Anesthetic Agents (Co-requisite).

Foundation to plan and implement nursing anesthesia care. Includes: pre- and post-anesthesia assessment, monitored anesthesia care, induction and maintenance of general anesthesia and complications of anesthesia in the healthy patient.

NSG 6790. Principles of Nursing Anesthesia II (4-3-0-5)

Prerequisite: NSG 6780: Principles of Nursing Anesthesia I.

Provides nursing anesthesia students with theoretical basis to administer anesthesia to patients across the life span. Building on knowledge gained in previous courses, course emphasizes normal and abnormal physiologic conditions in pediatric, obstetric and geriatric patient. Considers anesthesia principles for pain management and common surgical procedures occurring across the life span.

NSG 6800. Principles of Nursing Anesthesia III (4-3-0-5)

Prerequisite: NSG 6790: Principles of Nursing Anesthesia II.

Builds on previous knowledge to provide thorough understanding of anesthesia nursing care for the patient undergoing specialized procedures and patient with altered health state.

NSG 6810. Technology and Techniques in Nursing Anesthesia (1-3-0-2)

Prerequisite: Admission to Nursing Anesthesia Program.

Covers design and use of equipment common in anesthesia nursing, including hemodynamic monitors, airway management devices, anesthesia machines and mechanical ventilators.

NSG 6820. Professional Aspects of Nursing Anesthesia (2-0-0-2)

Prerequisite: Admission to Nursing Anesthesia Program.

Issues pertaining to nurse anesthetist as clinician, manager, teacher, researcher and consultant. Includes anesthesia practice arrangements, departmental management, substance abuse, principles of education and utilization of research.

NSG 6830. Perspectives on Rural Anesthesia Care (2-0-0-2)

Prerequisite: Admission to Nursing Anesthesia Program; NSG 6800: Principles of Nursing Anesthesia III; Completion of a minimum of 24 hours of NSG 6840: Nursing Anesthesia Clinical Practicum.

Explores requirements for comprehensive anesthesia care services in rural and medically underserved communities are explored. Evaluates availability of services in selected communities.

NSG 6840. Nurse Anesthesia Clinical Practicum (0-0-72-18)

Prerequisite: NSG 6770: Cardiopulmonary Physiology and Pharmacology; NSG 6780: Principles of Nursing Anesthesia I.

Clinical experience in administering all types of anesthetics to patients across the life span. Preparation of patients and equipment, pre- and postoperative patient evaluation, planning and implementing individualized anesthesia care plans, non-invasive and invasive monitoring, pain management and airway management.

NSG 6850. Nurse Anesthesia Specialty Practicum (0-0-48-12)

Prerequisite: 14 hours of NSG 6840: Nursing Anesthesia Clinical Practicum.

Supervised experience in administering anesthesia to specialized populations and surgical specialties. Emphasizes anesthesia techniques specific to cardiovascular, thoracic and neuroanesthesia and for obstetric, pediatric and critically ill populations.

NSG 6860. Nursing Anesthesia Rural Practicum (0-0-16-4)

Prerequisite: 14 hours of NSG 6850: Nursing Anesthesia Clinical Practicum.

Clinical experience in administering anesthesia to rural and medically underserved populations. Emphasizes developing anesthesia skills and functioning with increasing independence.

Community Health Nursing (M.S.N., M.N.)

NSG 6880. Family Nurse Practitioner I: Health Promotion and Problems of Adults and Their Families (3-0-9-6)

Prerequisite: Masters Core; Co-requisite NSG 7430: Pharmacology for Advanced Practice Nursing.

Prepares Family nurse practitioners to assume responsibility for health promotion, disease prevention, early detection and management of common acute and chronic health problems of adults and their families in primary health care settings. Emphasizes description of the condition or disease, etiology and incidence, clinical findings, differential diagnosis, management, complications and preventive and patient education measures. Considers cultural and ethical issues that affect health care delivery and client adherence to management plan. Uses established protocols for practice to indicate the need for consultation, referral and community resources.

NSG 6890. Family Nurse Practitioner II: Health Promotion and Problems of the Elderly and their Families (2-0-9-5)

Prerequisite: Masters Core (all 5 courses); NSG 6880: Family Nurse Practitioner I.

Prepares family nurse practitioners to assume responsibility for health promotion, disease prevention, early detection and management of common acute and chronic health problems of the elderly client and his family. Nurse practitioner's role in promoting successful aging, maintaining function and promoting self-care, using community, personal and family resources. Emphasizes common geriatric syndromes and problems including chronic illnesses and their management. Ethical dilemmas that impact health care of older adults are integrated throughout course.

NSG 6900. Family Nurse Practitioner III: Health Promotion of Children and their Families(3-0-9-6)

Prerequisite: Masters Core; All 5 courses; NSG 6880: Family Nurse Practitioner I.

Prepares family nurse practitioners to assume responsibility for health promotion, maintenance and management of common acute and chronic health problems of infants, children and adolescents in primary health care settings. Emphasizes description of the condition or disease, etiology and incidence, clinical findings, differential diagnosis, management, complications and preventive and patient education measures. Considers cultural and ethical issues that affect health care delivery and client adherence to management plan. Uses established protocols for practice to indicate the need for consultation, referral and community resources.

NSG 6980. Nurse Practitioner Practicum (1-0-15-6)

Prerequisite: Completion of masters core and all three family nurse practitioner courses (NSG 6880, 6890, and 6900).

Gives student responsibility for the primary health care services of individuals and families supervised by nurse practitioner and/or physician preceptor. Students are expected to practice as a nurse practitioner, assuming increasing responsibility for planning and implementing therapeutic processes and for documenting and evaluating outcomes of care. Student applies theories by investigating and management of health problems in primary health care settings.

NSG7020. Health Informatics and Utilization of Electronic Technologies (2-0-3-3)

Prerequisite: Admission to School of Graduate Studies; access to WWW; e-mail address must be obtained prior to first day of class.

Teaches technological innovations to enhance clinical practice, research and information management. Through the use of e-mail, CD ROM database searches, Internet Relay Chat, World-Wide Web and other electronic technologies, participants obtain, evaluate and disseminate information. This virtual course explores Internet resources and is a hands-on class with multiple computer assignments. This may be an entirely virtual class with no formal attendance. Thus, all students, regardless of location, receive a substantive and rigorous learning experience.

NSG 7580. Community Assessment and Program Planning (2-0-6-4)

Prerequisite: Admission to School of Graduate Studies.

Assessment of communities and/or aggregates with subsequent program-planning based on findings of assessment.

NSG 7710. Culture and Health (2-0-0-2)

Prerequisite: Admission to graduate studies.

Provides in-depth knowledge of cultural and ethnic differences affecting health and utilization of health care services.

NSG 7730. Epidemiology in Community Health Nursing (3-0-0-3)

Prerequisite: Concurrent with or prior to NSG 7580: Community Assessment and Program Planning.

Enables student to develop in-depth knowledge of concepts, principles, study designs, methods and statistics of epidemiology. Focuses on applying epidemiologic principles to disease prevention and health promotion in population groups and critically evaluating epidemiological studies.

NSG 7780. Community Partnerships: Constructs in Collaborative Practice (3-0-6-5)

Prerequisite: Master's core, may be taken as an elective.

Emphasizes utilization of resources to support the establishment and continuity of care to vulnerable aggregates. Discusses resources and avenues to access them appropriately. Emphasizes linkages to provide seamless care from one agency to another. Includes assessing needs and resources to determine appropriateness of utilization. Addresses skills in access and interface with agencies and in development of alliances.

NSG 7860. Leadership in Community-Based Settings (3-0-6-4)

Prerequisite: Concurrent with or prior to NSG 7780: Community Partnerships: Constructs in Collaborative Practice.

Provides student with in-depth knowledge of theories of leadership management and marketing. Focuses

on applying this knowledge for social justice and social activism. Student can explore budgetary issues, funding sources and grantsmanship to support community-based programs.

NSG 7870. Practicum in Community Health Nursing (2-0-9-5)
Prerequisite: Admission to School of Graduate Studies
Increases student's ability to synthesize knowledge gained in the program the role with aggregate groups in the community.

Mental Health-Psychiatric Nursing (M.S.N.)

NSG 6210. Group Dynamics (3-0-0-3)
This course is designed for graduate students to build on their previous academic, personal and professional experience in small group activities. The focus is on the theoretical content of group dynamics. Different types of groups are defined and discussed. The ethical and professional issues of leadership are explored in group work. Students are provided with the opportunity for experiential group processes.

NSG 7040. Mental Health Assessment, Brief Intervention and Referral in Primary Care (2-0-0-2)
Prerequisite: Admission to graduate program or consent of instructor.
Knowledge and tools to assess psychiatric problems in primary care. Emphasizes recognizing psychiatric problems and appropriate referral mechanisms.

NSG 7160. Foundations of Advanced Mental Health-Psychiatric Nursing (3-0-0-3)
Prerequisite: Admission to School of Graduate Studies and course in Theory/Research.
Eclectic orientation to mental health promotion and advanced psychiatric nursing. Emphasizes theories of causation of mental disorders. Psychiatric and nursing diagnoses are stressed. Socio-cultural, ethic and economic factors are integrated throughout course.

NSG 7180. Mental Health Psychiatric Nursing and the Individual Client (3-0-9-6)
Prerequisite: NSG 7160: Foundations of Advanced Mental Health-Psychiatric Nursing and NSG 7350: Psychopharmacology for Advanced Practice in Mental Health Psychiatric Nursing.
Critical examination of individual psychopathology and therapeutic approaches from psychodynamic, developmental systems, behavioral and biological perspectives. Students select, analyze, implement and evaluate a theoretical model of mental health-psychiatric nursing with individual clients. Therapeutic interventions to meet mental health needs of individual clients selected using decision-making principles.

NSG 7310. Group Approaches in Mental Health-Psychiatric Nursing (2-0-3-3)
Prerequisite: May be taken concurrently with NSG 7180: Mental Health-Psychiatric Nursing and the Individual Client.
Theoretical concepts basic to group interventions in mental health-psychiatric nursing practice. Theories of group therapy analyzed emphasizing group roles and therapeutic techniques appropriate to the functional level of groups. Community aspects, including client's sociocultural, ethnic and economic backgrounds integrated throughout course.

NSG 7330. Family Approaches in Mental Health-Psychiatric Nursing (2-0-3-3)
Prerequisite: May be taken concurrently with NSG 7180: Mental Health-Psychiatric Nursing and the individual client.
Theoretical concepts basic to family interventions in advanced mental health psychiatric nursing practice. Studies theories of family development, structure and function. Analyzes major theoretical models of family therapy systems theory and contextual issues. Community aspects, including client's sociocultural, ethnic and economic backgrounds, are integrated throughout course.

NSG 7350. Psychopharmacology for Advanced Practice in Mental Health-Psychiatric Nursing (3-0-3-4)
Prerequisite: Admission to School of Graduate Studies and NSG 7430: Pharmacology for Advanced Practice Nursing.
Theoretical and clinical concepts applicable to mental health-psychiatric nursing practice of clients emphasizing psychopharmacological aspects of care. Focuses on nursing assessment and monitoring of individual responses to treatment modalities in hospital and community settings, emphasizing patient teaching. Considers special problems related to various age groups.

NSG 7490. Advanced Practice in Mental Health-Psychiatric Nursing (1-0-9-4)
Prerequisite: All courses in major.
Students apply knowledge and experience gained in the preceding courses to clinical practice. Focuses is on designing, implementing and evaluating advanced practice role in a selected setting.

Parent-Child Nursing (M.S.N., M.N.)

Special Requirement: At least one year of experience in a PCN practice setting prior to beginning clinical practica courses.

NSG 6210. Group Dynamics (3-0-0-3)
This course is designed for graduate students to build on their previous academic, personal and professional experience in small group activities. The focus is on the theoretical content of group dynamics. Different

types of groups are defined and discussed. The ethical and professional issues of leadership are explored in group work. Students are provided with the opportunity for experiential group processes.

NSG 6920. Management of Children with Acute and Common Health Problems (3-0-9-6)
Prerequisite: M.N. Core; Health Promotion and Supervision: Birth Through Adolescence.

Prepares pediatric nurse practitioners to assess, diagnose and manage acute and common health problems of children from birth through adolescence. Emphasizes P. N. P.'s in patient management, family involvement, health promotion and teaching and continuing collaboration with other health professionals. Includes 135 hours of supervised clinical practice related to acute and common problems of children.

NSG 6930. Management of Children with Chronic Health Problems (2-0-9-5)
Prerequisite: M.N. core, Health Promotion and Supervision: Birth through Adolescence; NSG 6920: Management of Children with Acute and Common Health Problems.

Data to enhance the direct care and management of children from birth to adolescence experiencing chronic health problems. Emphasizes P.N.P.'s role regarding management, family involvement, health promotion and teaching, health maintenance and continued collaboration with health professionals. Includes 135 hours of supervised clinical practices.

NSG 6960. Health Promotion and Supervision: Birth through Adolescence (2-0-6-4)
Prerequisite: Completion or concurrent enrollment in M.N. core.

This course is designed to prepare pediatric and family nurse practitioners to provide primary health care services to infants, children and adolescents in the context of their families, communities and society. Emphasis is placed on providing health maintenance, health promotion, disease prevention and health restoration services as a member of a health care team. Interprofessional collaboration and referral are integrated throughout the course.

NSG 6970. Growth and Development Across the Lifespan (2-0-0-2)
Prerequisite: Completion or concurrent enrollment in M.N. core.

This course is designed to prepare advanced practice nurses to describe and analyze the cognitive and socioemotional development of individuals from birth to death. The analysis of interactions between individuals at different stages of development in families, groups and society will be emphasized.

NSG 6980. Nurse Practitioner Practicum (1-0-15-6)
Prerequisite: Completion of masters core and all four pediatric nurse practitioner courses (NSG 6920, 6930, 6960, 6970).

Gives student responsibility for the primary health care services of individuals and families supervised by nurse practitioner and/or physician preceptor. Students are expected to practice as a nurse practitioner, assuming increasing responsibility for planning and implementing therapeutic processes and for documenting and evaluating outcomes of care. Student applies theories by investigating and management of health problems in primary health care settings.

NSG 7500. Health Crises in Parent-Child Nursing (2-0-6-4)
Prerequisite: Completion of M.N. core courses.

Development of knowledge and strategies to help families deal with pediatric and perinatal crises. Clinical practice (90 clock hours) takes place in primary, secondary and/or tertiary health care settings. Precepted clinical learning focuses on student-selected population.

NSG 7510. Health Promotion in Parent-Child Nursing (2-0-6-4)
Prerequisite: Completion of M.N. core courses.

Develops advanced principles of individual and family health and wellness promotion and risk management. Emphasizes advanced practice nurse's role in complex assessments and child/family advocacy. Clinical practice (90 clock hours) takes place in sites reflecting student clinical focus and course-individual practice objectives.

NSG 7520. Advanced Practice in Parent-Child Nursing (1-0-15-6)
Prerequisite: Completion of M.N. core courses and NSG 7500: Health Crises in Parent-Child Nursing (first PCN course).

Provides concentrated clinical experience (225 clock hours) to sharpen advanced-practice skills in clinical-decision making, expert collaborative care, case management, change agency, research utilization, and/or educational interventions. Seminars emphasize issues related to advanced practice.

NSG 7530. Health Concerns in Parent-Child Nursing (2-0-6-4)
Prerequisite: NSG: 7500 Health Crises in Parent-Child Nursing.

The A. P. N.'s role in helping normalize families while dealing with common health concerns. Clinical practice (90 clock hours) takes place in the home, ambulatory/acute /long-term care facilities and/or appropriate community agencies. Precepted clinical learning focuses on student-selected population.

Non-Departmental Courses

The courses listed below have been approved for credit toward a graduate degree, and are offered through the School of Graduate Studies.

SGS 8010. Scientific Communication and Research Ethics (2-0-0-2)
Prerequisite: Students should be carrying out research for their thesis.

Covers writing abstracts and curriculum vitae, oral presentations and analyzing pressures causing violations of research ethics. Discussion of human and animal experimentation.

EDU 6210. Group Dynamics (3-0-0-3)
Prerequisite: Admission to School of Graduate Studies.

Designed for graduate students to build on their previous academic, personal and professional experience in small-group activities. Focuses on theoretical content of group dynamics. Different types of groups are defined and discussed. Ethical and professional issues of leadership are explored in group work. Students are offered experiential group processes.

EDU 7000. Curriculum and Instruction in Higher Education (3-0-0-3)

Foundation regarding curriculum or program development and instructional theory. Opportunities for role development through learning activities which exemplify roles of a professional educator regarding curriculum and instruction.

EDU 7001. Methods of Evaluation in Higher Education (3-0-0-3)
Prerequisite: EDU 7000 (may be concurrent).

Focuses on analysis and construction of instruments appropriate for evaluating student classroom and clinical performance. Issues considered include reliability, validity, item analysis, use of scales and other observational tools, setting of performance standards and assignment of grades. The role of the instructor in student evaluation is discussed throughout the course.

EDU 7003. Teaching Practicum (1-4-0-3)
Prerequisite: EDU 7000, EDU 7001, EDU 7006 (may be concurrent).

Develops teaching skills in classroom and clinical setting. Enhances graduate student's impact on his/her students in attitudes, skills and content knowledge. Student uses content from previous courses such as: curriculum development and measurement and evaluation.

EDU 7005. The Adult As a Learner (3-0-0-3)

Helps health care practitioners apply body of knowledge related to adult learning to settings in which they will teach and practice. Helps students analyze theories of adult learning, learning needs, goals, strategies and evaluation plans suitable for the adult learner.

EDU 7006. Instructional Processes (2-2-0-3)
Prerequisite: EDU 7000.

Focuses on teaching strategies and the instructional process. Emphasizes course planning and factors that influence selection of appropriate instructional methods, including the use of multimedia and other instructional technology.

IMMB 8110. Medical Microbiology (6-0-0-10)

Course combines principles of immunology, medical microbiology and infectious diseases.

Office of Biostatistics

STA 6800. Research Statistics I (2-2-0-3)
Prerequisite: College algebra.

Principles of statistical models, descriptive statistics, probability distributions, theory of estimation and hypothesis testing, simple linear regression, computerized data analysis.

STA 6810. Research Statistics II (2-2-0-3)
Prerequisite: STA 6800 or equivalent.

Analysis of variance, non-parametric statistical methods, survival analysis, multiple linear regression, regression diagnostics.

STA 6820. Advanced Research Statistics I (3-0-0-3)
Prerequisite: STA 6810.

Multiple regression, correlation, curve fitting, multiple regression prediction models, analysis of variance and covariance, reliability.

STA 6830. Advanced Research Statistics II(3-0-0-3)
Prerequisite: STA 6820.

Introduction to multivariate analysis.

School of Medicine

Dean—Dr. Darrell G. Kirch

Vice Dean for Academic Affairs—
Dr. Ruth-Marie E. Fincher

Vice Dean for Clinical Affairs—
Dr. Daniel W. Rahn

Chairman, Admissions Committee—
Dr. Gary C. Bond

Associate Dean for Curriculum—
Dr. Susan P. Porterfield

Associate Dean for Students—
Dr. Mason P. Thompson

Associate Dean for Hospital—
Dr. Charles Linder

Director of Operations—Tommy Williams

Associate Dean for Primary Care—
Dr. Joseph Hobbs

Associate Dean for Special Academic Programs—Dr. Rosie Allen-Noble

Associate Dean for Student Affairs—
Dr. Mason P. Thompson

Associate Dean for Veterans Affairs/ Veterans Affairs Medical Center—
Dr. Thomas W. Kiernan

Associate Dean for Graduate Medical Education—Dr. Ann Marie Flannery

Assistant Dean for Clinical Pharmacy—
Dr. David W. Hawkins

School of Medicine

The physician occupies a vital and respected position in today's increasingly sophisticated and complex society. Successful completion of requirements in the School of Medicine leads to the M.D. degree and a career dedicated to the maintenance of health and the treatment and cure of disease. Opportunities include clinical practice, teaching and research.

Accreditation

The School of Medicine is accredited by the Association of American Medical Colleges in conjunction with the American Medical Association.

Admission Requirements

Policy

Admission policies established by the Board of Regents of the University System of Georgia are the responsibility of the admission committees, with consideration for the special requirements of the medical curriculum. The committees are responsible for recommending to the dean the acceptance of all students entering the first-, second- or third-year classes. Admission with advanced standing to the fourth-year class is not ordinarily possible.

The appropriate admissions committee selects those applicants who are more likely, in its opinion, to make the best students and physicians. Consideration is given to the totality of all credentials, including (1) the demonstrated level and pattern of academic ability and achievement, (2) scores on the Medical College Admissions Test, (3) evaluations supplied by premedical advisers or advisory committees, and (4) assessment, by means of two personal references and interviews with admissions committee members and MCG personnel, of the less tangible qualities of personality, character, maturity, emotional fitness, motivation and potential for meeting Georgia's health-care needs. Each student is considered on the basis of individual qualifications without regard to race, sex,

creed or national origin.

Only a very limited number of positions are available for out-of-state applicants; therefore, to be given serious consideration, non-residents must present superior qualifications and preference is given to those who have a significant Georgia connection.

The Medical College of Georgia School of Medicine encourages medical school applicants who believe they are at risk for HIV infection to seek HIV testing and counseling prior to admission. Depending on the stage of one's HIV infection, persons who test HIV positive may wish to reconsider their career goals because of:

1. the prolonged period of medical education and the significant possibility that they may become disabled during training or early in their career,
2. the infectious hazards of certain portions of medical education and practice,
3. barriers to certain invasive clinical activities and fields of specialization because of possible hazards to patients, and
4. the financial cost of medical education.

Any School of Medicine student who knows or has reason to believe that he/she has HIV infection is required to report this information immediately to the Dean of the School of Medicine and to Hospital Epidemiology. Failure on the part of a student to report a known HIV infection may result in disciplinary action, up to and including dismissal.

Academic Requirements

At least three years of work in an accredited college or university.

The minimum requirement is 90 semester hours or 135 quarter hours. The three-year college course, in both quality and quantity, must be acceptable as the equivalent of the first three years leading to the degree of bachelor of science or arts in an approved college of arts and sciences. Preference is given to applicants who will have completed their baccalaureate degree.

Applicants must have completed at least the last two years of their undergraduate or graduate education in an accredited U.S. or Canadian institution to be considered.

An applicant may major in the discipline of his choice; however, he must complete the following:

Biology

One academic year of general biology or zoology (with laboratory).

Chemistry

(a) One academic year of general inorganic chemistry (with laboratory).

(b) One academic year of advanced chemistry, two quarters or one semester of which must be organic chemistry with laboratory. The other quarter or semester may be fulfilled by any advanced chemistry course (laboratory not necessary).

Physics

One academic year of physics (with laboratory).

English

One academic year of English or whatever portion of the academic year is required for the baccalaureate degree in an accredited college or university.

Biochemistry is recommended.

Note: One academic year equals three quarters, two semesters or one semester and two quarters.

Premedical Electives

An understanding of people, contributory to the wise and solid practice of medicine, can be derived from many disciplines. Students are encouraged to pursue in-depth study in disciplines which are of genuine interest to them, in addition to the required courses. The selection of the areas for in-depth study is not of primary concern to the committee; many students select natural science as a primary emphasis and others select physical sciences or the humanities. Elective courses may be used to broaden the background of students applying to medical school.

Medical College Admission Test (MCAT)

Every applicant must take the Medical College Admission Test, preferably in the spring preceding the submission of an application but no later than the fall. The test is given twice yearly at most senior colleges. All appli-

cants must have taken the MCAT within three years of time of application. Early Decision Program applicants must take the MCAT prior to making application. All other applicants must take the MCAT no later than the fall of the year application is made. Information concerning the MCAT may be obtained from premedical advisers or from the Medical College Admission Test Program Office, 2255 North Dubuque Road, P.O. Box 4056, Iowa City, IA 52243-4056; 319/337-1357.

Personal Interviews

Interviews are held by invitation of the admissions committee. Such interviews are required prior to acceptance.

References

An evaluation of the applicant is required from two persons, one of whom should be active in one of the health professions.

In addition, an evaluation from the applicant's premedical adviser is required. Recommendations from other sources are discouraged.

Technical Standards for Admission

Qualification for admission to, and graduation from, the Medical College of Georgia School of Medicine requires:

1. Sufficient intellectual capacity to fulfill the curricular requirements of the various basic medical science and clinical science departments;
2. Ability to effect multi-modal communication with patients, colleagues, instructors and other members of the health-care community;
3. Physical ability to learn and implement the various technical skills required by the faculty to facilitate preparation for the independent practice of medicine; and
4. Sufficient emotional stability to withstand the stress, uncertainties and changing circumstances that characterize the practice of medicine. Detailed technical standards have been developed by the School of Medicine for use in evaluating prospective students. These standards are admission guidelines and are subject to continuing revision and improvement.

Application Procedures

The School of Medicine participates in the American Medical College Application Service (AMCAS), which means that application forms are issued by AMCAS upon receipt of an application request card from the applicant. The request cards can be obtained from the Associate Dean for Admissions Office, Medical College of Georgia, or from premedical advisers on most college campuses. The MCG deadline for filing applications with AMCAS is August 1 for the Early Decision Program and November 1 for regular admission applicants for the entering class. Early application is urged by the admissions committee. No application fee in addition to the AMCAS fee is required.

Additional information regarding the Early Decision Program may be obtained from the Office of Associate Dean for Admissions, School of Medicine.

Transfer with Advanced Standing

Applicants for advanced standing are considered on a space-available basis and only as transfers from other schools of medicine granting the M.D. degree. Application forms and additional information may be obtained from the office of the Associate Dean for Admissions, School of Medicine, AA-2040, Medical College of Georgia, Augusta, GA 30912-4760.

Financial Aid

An application form on which to apply for any assistance program administered by the university may be secured by writing the university's financial aid office.

Curriculum

During the first year (Phase I) the students study the structure and function of the human body as well as the social and behavioral aspects of the individual. Contact with patients begins with the patient-doctor course in the fall of the first year. The second year (Phase II) emphasizes clinical medicine. Interdepartmental cooperation and clinical

relevance are stressed throughout the first two years.

During the third year (Phase III) of the curriculum, students take required clerkships. In the fourth year (Phase III), all students take an acting internship in internal medicine, family medicine or pediatrics; and emergency medicine. The balance of the fourth year is filled by elective courses in various clinical departments.

The Medical College of Georgia has affiliation agreements with major community hospitals within the state of Georgia that permit students to take some core clinical courses at these hospitals.

Phase I

Fall Semester (17 weeks, 2 days)		*Credit Hours*
ANM 5110	Gross Anatomy	9
BMB 5120	Biochemistry/Genetics	7
ANM 5130	Cell Biology/Development	6
ITD 5141	Patient–Doctor*	–
ITD 5180	Ethics	1

Spring Semester (18 weeks)		*Credit Hours*
PHY 5150	Physiology	11
ITD 5170	Neuroscience	6
ITD 5100	Physical Diagnosis I	2
ITD 5211	Problem-Based Learning	1
ITD 5141	Patient–Doctor*	1
	Phase I Elective	
PSY 5160	Psychiatry	4
ITD 5190	Health Promotion	1

*The Patient-Doctor course is given during both semesters; the student receives a total of one semester hour of credit.

Phase II

Fall Semester (17 weeks, 2 days)		*Credit Hours*
ITD 5230	Reproduction	2
OPH 5210	Ophthalmology	1
ITD 5280	Ethics	1
ITD 5250	Microbiology	7
ITD 5260	Introduction to Clinical Medicine	6
PTH 5240	Pathology	7
ITD 5111	Problem-Based Learning	1
ITD 5290	Disease Prevention	1

Spring Semester (18 weeks)		*Credit Hours*
PHM 5270	Pharmacology/Toxicology	7
ITD 5250	Microbiology	5
PTH 5240	Pathology	5
ITD 5295	Board Review	4
FMP 5280	Problem Solving	1
ITD 5200	Physical Diagnosis II	2

Summer Semester (4 weeks)		*Credit Hours*
ITD 5292	Clinical Skills Interface	1

Requirements for Phase III

A. General Requirements
   1. Students must satisfactorily complete all of the requirements of Phase II before entering Phase III. Students must pass USMLE Step I to enter the third year.
   2. The minimum requirement in Phase III for graduation from the School of Medicine Medical College of Georgia is the satisfactory completion of 18 months of core clerkships, selectives (one Acting Internship in Medicine, Family Medicine or Pediatrics, and a course in Emergency Medicine), and electives. Students are encouraged to take more than the minimum number of electives.

B. Required Clerkships
   1. *Medicine 500*–12 week basic clerkship
   2. *Neuroscience 500*–4 week basic clerkship
   3. *Obstetrics and Gynecology 500*–4 week basic clerkship
   4. *Pediatrics 500*–6 week basic clerkship
   5. *Psychiatry 500*–6 week basic clerkship
   6. *Surgery 500*–6 week basic clerkship
   7. *Family Medicine 500*–6 week basic clerkship

C. Senior Year Requirements
   1. Selectives
      a. All students are required to complete an acting (sub)internship in Internal Medicine, Family Medicine, or Pediatrics. Rotations that meet this requirement are listed below and marked with an asterisk (*) throughout this book:

FMP 5001+	MED 5008	PED 5001
FMP 5003+	MED 5009+	PED 5009A
FMP 5007+	MED 5011	PED 5009B

FMP 5008+ MED 5029+ PED 5012B+
FMP 5009+ MED 5030+ PED 5014
FMP 5010+ FMP 5011 FMP 5013+
FMP 5014+
+ denotes off-campus

b. All students must complete a rotation in Emergency Medicine. SUR 5250, SUR 5275 or SUR 5350 may be substituted for this requirement.

2. Electives
Students must successfully complete a minimum of 6 electives. At least two of these electives must be on-campus. On-campus electives are defined as those taken at Medical College of Georgia Hospital, University Hospital (but not a private physician's office), or Veterans Administration Hospital, Augusta. Electives taken at other locations in Augusta are classified as off-campus electives.

Because electives provide students the opportunity to broaden their training, students are advised to complete more than the minimum of 5 electives.

Curriculum Bulletin

The courses offered are not limited to those listed in the catalog, and new courses are frequently introduced into the curriculum. It is possible that some of the courses listed may be withdrawn from the curriculum with the approval of the curriculum committee and the dean of the School of Medicine. Course descriptions can be found in the *Phase III Curriculum Bulletin,* a copy of which may be obtained by writing to the Curriculum Office, School of Medicine.

Promotion and Graduation

Promotion of students from one year to the next depends on the satisfactory completion of each year's work. Promotions are considered on the basis of recommendations by the individual instructors, on department evaluations and on students' total records, including performance on Steps I and 2 of the United States Medical Licensing Examinations. Students must pass Step 1 to take the third-year clerkships and Step 2 to graduate.

Non-Academic Exclusion

Any student may be denied permission to continue enrollment in the School of Medicine if, in the opinion of the faculty, the student's knowledge, character or mental or physical fitness cast grave doubts upon his/her potential capacities as a physician.

Classification of Students

In the School of Medicine, students are classified as Phase I (first year), Phase II (second year) and Phase III (third or fourth year).

Promotions Committee Policies and Procedures

This material is described in full detail in the publication titled *Promotions Committee Policies and Procedures.* A copy is provided to each student and faculty member.

I. Standards of Academic Performance
   A. To be promoted or graduated, a student must satisfactorily complete every required course.
   B. Interpretation of Grades
      "A": Outstanding—Superior performance
      "B": Good—Commendable performance, work of good quality.
      "C": Satisfactory—Acceptable performance.
      "D": Unsatisfactory—A grade that indicates the student has not met the standards of performance in this area.
      "F": Failing—Failing
      "I": Incomplete—This indicates that a student was doing satisfactory work, but for non-academic reasons beyond his control was unable to meet the full requirements of the course.

II. Remedial Work for Academically Deficient Students
   A. Upon review of the student's academic performance and mitigating circumstances, the Promotions Committee shall recommend for an academically deficient student :
      1. Performance of remedial work
      2. Repeating of some or all of the courses of the year

3. Dismissal
4. Recommendations to undertake remedial work or repeat courses will be made by the appropriate promotions subcommittee directly to the dean
5. Recommendations for dismissal will be made by the full Promotions Committee as outlined in III.

B. Remedial work taken as the result of unsatisfactory performance (a grade of D) shall be stipulated by the department(s) involved. This may include, but is not limited to: 1) independent study, 2) retaking of examinations and 3) remedial courses. In any event, remedial work must not interfere with other courses.

III. Recommendations for Dismissal
The academic performance of each student shall be evaluated continually by the appropriate subcommittee. A student may be recommended for dismissal for sufficient cause. Guidelines for dismissal and the dismissal procedures of the promotions committee are outlined in detail in the current Promotions Committee Handbook.

IV. U.S. Medical Licensing Examination, Step 1 and 2
Students shall take Steps 1 and 2 of the United States Medical Licensing Examination and pass them at the national level as a candidate.

V. Graduation

A. Application and Effective Dates
A student who completes all requirements may apply for graduation monthly. Application must be made four months in advance of the proposed date of graduation. The monthly dates, which will appear on the diploma, will correspond to the last day of the corresponding fourth-year rotations as published in the *MCG Catalog*. The annual formal graduation is held in May at the end of the academic year, this May date appearing on the diploma of students graduating at the end of the Spring semester.

B. Promotions Committee Procedure
The Promotions Committee procedure for monthly graduation will be the same as that described under Promotions Committee Policy IIC.3 for the end of the academic year. The meetings of the subcommittee to consider students for graduation will be held as soon as practical after completion of the student's final rotation and receipt of the grades in the registrar's office.

Other Programs and Administrative Procedures

Student Responsibilities and Judicial Procedures

Student discipline at the university is the responsibility of the president and his administrative staff. Students will be liable for disciplinary action should they fail to act in a manner of credit to themselves, the university and the medical profession.

Honor System

Every medical student is expected to maintain a high degree of personal integrity and honor, not only during his years on the campus, but also throughout his practice as a physician. In recognition of this obligation, each student is expected to subscribe to an honor code established by the students of previous years. The Honor Court is composed of 16 regular enrolled students, with four members from each class. A copy of the Honor Code is distributed to freshmen prior to matriculation. Students are required to sign an Honor Code "contract" certifying they have read and agree to uphold the honor code.

Student Affairs Committee

The Student Affairs Committee of the School of Medicine acts as an advisory committee to the dean. The committee consists of the chairman, nominated and appointed in accordance with the policies for general faculty committees; one faculty member elected by the students for each of the four classes; associate dean for students, ex officio; and associate dean for curriculum, ex officio. Student members include the president of each class and the School of Medicine repre-

sentative to the Organization of Student Representatives of the AAMC.

Alpha Omega Alpha

A chapter of this honorary scholastic fraternity in medicine was established at MCG in 1926. Each year students of the third- and fourth-year classes are nominated based on peer and faculty recommendations and academic excellence. Elections are held by active members of the chapter.

The Alpha Omega Alpha Honor Fraternity sponsors two lectures annually.

Special Programs

Guest Lecturers

Throughout the year, distinguished physicians and scientists from other schools and from overseas visit the various departments of the Medical College of Georgia and participate in departmental teaching programs.

Distinguished lecturers address the whole school each year.

Research Fellowships

The Medical College of Georgia has a limited number of summer research fellowships in which students work closely with faculty investigators on specific problems.

This is an elective, but an important component of the students' educational experience, allowing them to participate in research and to develop an understanding of the methods, philosophies and problems involved.

Interested students should contact departments directly.

Affiliated Hospitals Program

The School of Medicine has developed a number of affiliations with community hospitals around the state of Georgia. These affiliations are aimed primarily at widening the educational experiences of our students by providing them with educational opportunities in general medicine and in the specialty fields at the affiliated community hospitals. By participating in these training programs the students gain experience, insight and perspective into the practice of high-quality medical care as it exists in private practice and in these community hospitals.

The required clerkships in clinical medicine may be taken at various Augusta hospitals as well as the affiliated hospitals across the state. Augusta-area facilities include the MCG Hospital and Clinics, the Department of Veterans Affairs Medical Center, University Hospital (a city-county hospital), Georgia Regional Hospital and the Dwight David Eisenhower Army Medical Center at Fort Gordon. Affiliated facilities throughout the state include the Memorial Medical Center in Savannah, the Georgia Baptist Medical Center in Atlanta and the Medical Center in Columbus.

Clinical electives may also be taken at any of the above-mentioned hospitals as well as many others approved individually by the various departments. A total of two months of elective clerkships may be taken at off-campus sites.

Postdoctoral Training Programs

MCG has internship and residency programs approved by the Accrediting Council for Graduate Medical Education. The teaching hospital of MCG, the MCG Hospital and Clinics, is the parent hospital for these programs, but integration and/or affiliation with University Hospital, Augusta; the Department of Veterans Affairs hospitals, Augusta; and Georgia Regional Hospital, Augusta, may be included. A brief outline of the various training programs is given below. Applicants seeking residency training should apply directly to the department chairman or to the director of hospital and clinics.

Internships

Family Medicine

The first year in the family medicine residency training program is equivalent to the first postgraduate medical year. A description of this year is found under the section on family medicine residencies.

Internal Medicine

Categorical medical internships are available which are designed as the first postgraduate year of training toward board certifica-

tion in internal medicine. Preliminary medicine internships are also available for individuals pursuing a career in another discipline. Interns rotate through the MCG Hospital, University Hospital, and the Department of Veterans Affairs Medical Center. The intern has broad experience in the management of a variety of diseases in different patient populations. An important responsibility of the intern is teaching medical students. This responsibility along with the responsibilities for patient care prepare the intern for advanced scholarship in the clinical skills of diagnosis and management of those diseases falling within the realm of internal medicine.

Obstetrics and Gynecology

Four first-year residency positions are offered by the Department of Obstetrics and Gynecology. These constitute the first year of our four-year program leading to board eligibility in obstetrics and gynecology. The PGY-1 spends six months on obstetrics and gynecology, two months on medicine, one month in the emergency room, one month on ultrasound/ambulatory and one month in the neonatal intensive-care nursery. A surgical-skills laboratory and vacation share one month.

Pathology

The straight internship in pathology is offered to recent graduates whether or not they have decided about later training. The intern's experience is like that of a first-year resident. The study of human disease is excellent preparation for any clinical field. If the intern decides to continue in pathology, it is a year saved that can be spent later in special research training. An elective in one of the clinical disciplines may be arranged. The internship program is in the MCG Hospital and may include elected periods in MCG-affiliated hospitals.

Pediatrics

Ten straight internship positions in pediatrics are offered each year. The first year of training emphasizes acquiring general pediatric knowledge through supervised exposure to patient care in primary, secondary and tertiary-care settings. Rotations are provided on the pediatric inpatient and outpatient services, neonatology and emergency room. First-year residents act as primary physicians under direct supervision of the senior residents and faculty. The emphasis of the second-year program is developing supervisory skills and competence in intensive-care clinical settings. Residents in the third year of training assume responsibility both for patient care and for the supervision of junior house officers and medical students.

Surgery

Thirteen straight internship positions in surgery are offered. These internships in the general surgery "core" rotations include positions for graduate trainees who have career goals in the specialties of neurosurgery, orthopedic surgery, urology and otolaryngology, as well as in general surgery.

The "core" program is based on a philosophy that surgery is a "discipline of medicine" and that surgeons should be "internists who operate."

Rotations include general surgery, urology, orthopedics, plastic surgery, otolaryngology, cardiothoracic surgery, emergency services, neurosurgery, anesthesia, and critical care and trauma care.

Transitional Internships

Transitional internships are available for individuals who intend to enter residencies which do not offer the PGY-1 year. A minimum of six months of internal medicine and one month of emergency room are required. The additional five months are chosen from electives in a variety of clinical departments. Applications for the transitional internship are made through the Transitional program sponsoring department.

Residencies

Anesthesiology

Clinical Base Year (PG-1): The clinical base year is scheduled through the Department of Medicine coordinator. The 12 months include four months of general internal medicine, one month of anesthesiology and the

medicine, one month of anesthesiology and the remainder in other areas such as cardiology, neonatology, neurology and surgery. Emphasis is on direct patient-care experiences.

Clinical Anesthesia (CA-1, CA-2, CA-3): The clinical anesthesia curriculum consists of basis anesthesia and subspecialty anesthesia during CA-1 and CA-2 years. Subspecialty areas include cardiothoracic anesthesia, neuroanesthesia, obstetric anesthesia, ambulatory anesthesia, recovery room, critical care, pain management, pediatric anesthesia and post-anesthesia recovery.

The CA-3 year is designed for advanced anesthesia training and is devoted to complex anesthesia procedures in the care of the patients with concurrent illness. Three tracks are available.

1. Advanced clinical track with varying times in general advanced, complex anesthesia and subspecialty rotations.
2. Subspecialty clinical anesthesia track with time divided between one or more subspecialties plus three months of required general advanced, complex anesthesia.
3. Clinical scientist track with six months in laboratory or clinical investigation and three months of complex clinical anesthesia and three months selected subspecialty or an additional three of complex clinical anesthesia.

All residents are required to spend three months in complex general clinical anesthesia. All CA-3 plans are subject to approval by the program director.

Residents at all levels are involved in medical student education.

Dermatology

The residency training program in dermatology is for three years with emphasis on both clinical and basic scientific aspects of cutaneous medicine and dermatologic surgery. Patients are seen in outpatient clinics at the MCG, Veterans Affairs and Eisenhower hospitals. Inpatient beds at the MCG Hospital and the VA Medical Center are available on a "need basis." Training is graduated, with increased responsibility in the care of patients accruing throughout the program. Regular weekly conferences include dermatology grand rounds, histopathology conference, basic science seminar, journal club and didactic conferences. To develop the critical capacity necessary to evaluate advances in dermatology, residents participate in clinical research for periods of two to 12 months during their training, and are required to complete a clinical or laboratory research project each year during the three-year training program.

Emergency Medicine

An emergency medicine residency program was established in July, 1989. This is a fully accredited PGY 2–PGY 4 program and provides up to 24 residents the training necessary to become qualified by the American Board of Emergency Medicine. The residency combines the facilities of MCG with those of University Hospital and Eisenhower Army Medical Center providing a wide and varied patient base and experience for residents. The three centers are staffed by American Board of Emergency medicine certified academic and clinical faculty. Residents spend approximately half their time at MCG and one quarter of their time at the other two practice sites. Training includes rotations in all three emergency departments as well as training in cardiology, trauma, anesthesia, OB-GYN, pediatrics, pediatric emergency medicine, medicine intensive care, EMS systems and emergency medicine administration. Responsibility is graded throughout training with senior residents playing an increasingly important role in medical and trauma resuscitations, assuming administrative and quality-assurance duties and teaching. A research project of publishable quality is required for graduation and protected time is provided during the residency for research endeavors. Attendance at conferences and lectures is required and time off from clinical duties is provided for residents to attend didactic sessions. Conferences and lectures are provided five hours a week and include grand rounds, M&M, journal club, literature review, various workshops and joint conferences with internal medicine and trauma.

Family Medicine

The Family Medicine Residency Program is fully accredited providing 24 residents comprehensive training to become board certified in family medicine. The educational mission is to equip the physician with the knowledge and skills to provide quality comprehensive care with continuity to individual family members and to the family unit as a whole. To achieve these goals, a strong curriculum in procedural skills and inpatient and ambulatory patient management is emphasized. This includes training opportunities in upper and lower endoscopy, colposcopy, obstetrics, vasectomy, stress testing, laboratory testing, nasolaryngoscopy, minor surgery, pulmonary functions and ultrasonography. Inpatient education includes cardiac and medical intensive-care training, antepartum and postpartum management, newborn care, as well as a wide variety of common medical illnesses. Ambulatory patient management includes management of acute and chronic illnesses as well as emphasis on health maintenance, prevention and practice management. Longitudinal training in behavioral medicine and community medicine complement the outpatient experience. Excellent resources are provided for residents interested in research opportunities.

Throughout the training experience, increasing autonomy and individual decision-making are encouraged. Upon completion of the residency program, physicians ae well-equipped to meet the challenges of diverse practice settings.

Internal Medicine

A complete postgraduate training program in internal medicine and its subspecialties is offered; all of the training required for qualification for the American Board of Internal Medicine and each of the subspecialty boards can be obtained. The internship and residency program is integrated with University Hospital and the Department of Veterans Affairs Medical Center. Fellowships are available in cardiology, cardiovascular research, hematology, infectious diseases, endocrinology and metabolism, gastroenterology, renal diseases, rheumatology, pulmonary disease, clinical nutrition and medical oncology. Teaching rounds and conferences are held daily for house officers and students.

Neurology

A fully approved three-year residency in neurology combines the facilities of the MCG Hospital and Clinics and the Augusta Department of Veterans Affairs Medical Center. The first year is spent on wards and in the clinics. The second and third years consist of experiences on consultative neurology, child neurology, neuropathology, neuromuscular-electromyography, epilepsy-electroencephalography, ambulatory care and electives.

The goal of the neurology residency program is to train clinically competent neurologists equipped to make an original contribution to the knowledge of the nervous system, in either an academic setting or in clinical practice. Three adult neurology residents are accepted each year, each of whom must have completed an approved internship.

The training program in child neurology is offered by the section of child neurology of the Department of Neurology and is supervised by four full-time faculty members of the section of child neurology. Two types of programs are offered: one year of fellowship (PL3) or a three-year program combining adult and child neurology training which meets the board requirements for Neurology with Special Competence in Child Neurology. Residents in this program must have completed an approved pediatrics residency.

Obstetrics and Gynecology

A parallel four-year residency program leading to board eligibility is offered. The first year is described under internships. During the subsequent three years, in addition to general obstetrics and gynecology, the resident gains experience in reproductive endocrinology, maternal-fetal medicine, gynecologic oncology, family planning, primary care and gyn-surgical pathology. The program utilizes the Medical College of Georgia Hospital and Clinics, University Hospital and the Eisenhower Army Medical Center. The residency is academically oriented. House

staff participate in student teaching and research.

Ophthalmology

A three-year residency program in ophthalmology (3 residents per year) is offered with training at the MCG Hospital and Clinics with rotations at the Department of Veterans Affairs Medical Center. The educational experience is broad based including general opthalmology and various subspecialties (retina, cornea and external diseases, neuro-ophthalmology, glaucoma, pediatric ophthalmology and oculoplastics) as well as training in all types of ophthalmic surgery and fitting of contact lenses.

Pathology

The residency program offers a combined anatomic, clinical pathology program and a straight program in either anatomic or clinical pathology. The resident physician participates in the student teaching program, the department's autopsy, surgical pathology and clinical pathology services. Periods of part-time or full-time research are available. Places are available to persons preparing for the practice of pathology, and to those who may desire a year or more of training in pathology to prepare for another discipline. Individualized programs that satisfy board requirements and the individual's career goals can be arranged.

Pediatrics

The pediatric residency involves at least two years beyond the internship year. Further experience is provided on inpatient rotations, newborn care and outpatient clinics at University and MCG hospitals. In addition, electives are offered in pediatric cardiology, allergy-immunology, neurology, adolescent medicine, infectious diseases, pulmonary medicine and private physicians' offices. The resident participates in the teaching of medical students. Basic sciences and logical thinking are promoted through problem case conferences, grand rounds, pediatric X-ray conferences, pediatric pathology conferences and journal clubs. Fellowships are available in allergy-immunology, cardiology, neonatology and neurology.

Psychiatry and Health Behavior

The Department of Psychiatry and Health Behavior has a fully approved four-year residency program in psychiatry which includes a categorical first-year internship in cooperation with the Departments of Neurology, Family Medicine, Internal Medicine and Pediatrics. Alternately a one-year internship including primary care may be taken in lieu of the categorical first year. A fully accredited two-year program in child psychiatry is offered; prerequisites are three years of training in general psychiatry. One- or two-year subspecialty fellowships are offered in forensic psychiatry, substance abuse, geriatric psychiatry, and neuropsychopharmacology.

The training programs emphasize the synthesis of biological, psychodynamic and psychosocial approaches to diagnosis and treatment. Multiple clinical sites provide exposure to a wide range of psychopathology and treatment techniques.

Detailed information about the program may be obtained upon request.

Diagnostic Radiology

A four-year program in diagnostic radiology is offered. Starting in 1997, the radiology residency must be preceded by one clinical year in either a flexible program or specific primary-care area as mandated by the American Board of Radiology. The four years in radiology are spent with rotations in neuroradiology, including magnetic resonance imaging, nuclear radiology, special procedures, ultrasound, pediatric radiology, computed tomography, as well as general diagnostic radiology. Emphasis is on progressive independence of the resident as his foundation is strengthened. The total number of procedures approximates 140,000 per year.

Radiation Oncology

A four-year residency (PGY 2–PGY 5) is available; a PGY 1 is required prior to beginning the first year of the residency. Clinical rotations include radiation oncology (required minimum of 30 months), medical oncology and pathology. Clinical electives are available as well. Each resident is expected to participate in a research project. Didactic lectures in

physics, radiobiology, biostatistics, Journal Club and clinical oncology make up the formal curriculum. Residents help manage a variety of cases using external beam radiation and brachytherapy, derived from more than 1,000 patients a year seen in the center.

General Surgery

This is an integrated program which includes rotations through the MCG Hospital, University Hospital and the Department of Veterans Affairs Medical Center. The program is four or five years long following the internship. The length of the five-year tract is designed for those who wish to pursue a career in academic surgery and requires a year of research experience. Laboratory experience is not required in the four-year program.

Five residents are trained at each level beyond the internship. The program is not pyramidal. Competent performance is essential for reappointment. The program is based on a philosophy that surgery is a discipline of medicine and that surgeons are "internists who operate." Anatomy, physiology and biochemistry and the correlation of basic science in clinical problems are constantly stressed in a wide variety of daily rounds, teaching conferences and in grand rounds.

Neurosurgery

This is a five-year program with a prerequisite of one year of general surgery internship, usually at the Medical College of Georgia.

One resident is accepted per year. Training includes all aspects of clinical neurosurgery including vascular, spine pediatric and functional, supplemented by weekly conferences in combined neuroanatomy and neurophysiology, neuropathology and neuroradiology and off-service experiences in clinical neurology, neuropathology and neuroradiology, as well as basic research. The teaching hospital, the Childrens Medical Center, and Veterans Affairs Medical Center participate in the training program. By special arrangement, the resident may receive graduate school credit while pursuing a neurosurgical residency.

Orthopedic Surgery

The orthopedic program is a five-year program which includes a period in the first year in general surgery. Experience and increasing responsibility are provided in the program in the basic science of orthopedics, fractures, children and adult orthopedics, and reconstructive surgery. Affiliation with the Department of Veterans Affairs Medical Center is included. Long-term observation and comprehensive care are emphasized. Three residents are appointed each year.

Otolaryngology

The division of otolaryngology offers an accredited residency training program. One year postgraduate surgical training is required. The four years of otolaryngology training include rotations at MCG Hospital and Clinics, the Department of Veterans Affairs Medical Center and Dwight David Eisenhower Memorial Medical Center. A temporal bone course and basic endoscopic sinus surgery course are given annually. Emphasis is on a broad background including otology, neuro-otology, bronchoesophagology, endoscopic sinus surgery, maxillofacial trauma and head and neck surgery.

Plastic and Reconstructive Surgery

The Plastic and Reconstructive Surgery program is a two-year program. The qualifications for residency include completion of general surgery or subspecialty training, approval from the American Board of Plastic Surgery and high ethical standards.

The primary objective of the Division of Plastic and Reconstructive Surgery is to provide quality instruction and clinical material for plastic surgery training. Graded clinical responsibility is given throughout the program. Specific areas of interest include cleft lip-palate, craniofacial anomalies, diagnosis and management of congenital hand anomalies and hand injuries, acute burn therapy and reconstruction, and ablation of head and neck tumors with reconstructive and cosmetic surgery.

Rotation schedules are at three-month intervals at the Medical College of Georgia and Department of Veterans Affairs hospitals. Two residents are accepted each year.

Thoracic Surgery

This section provides a two-year approved program with training in all aspects of general thoracic and cardiac surgery. Prerequisites include internship and four years of general surgery residency (with chief residency) primarily in teaching hospitals. MCG Hospital and the adjacent VA Medical Center are utilized for training. Two residents are accepted one year alternating with one of the following year.

Urology

The urology section offers a fully approved three-year program. The minimum prerequisite is two years of general surgery. It is served at the Medical College of Georgia Hospital, the Department of Veterans Affairs Medical Center and University Hospital. Two residents are accepted each year.

Continuing Medical Education

The objective of continuing education is to preserve and increase professional knowledge and competence throughout the career of professional health workers. The program of continuing medical education, in close cooperation with the departments in the School of Medicine and with the Division of Continuing Education, develops and presents educational activities to help professional health workers maintain and further develop their skills.

Types of Courses

1. Symposia: numerous courses lasting from one to five days are presented each year.
2. Physicians continuing education series: In several cities throughout Georgia a series of one-day medical symposia are presented each year.
3. Special technique workshops: workshops in laboratory, diagnostic and therapeutic procedures enable enrollees to obtain practical experience.
4. Interactive presentations via satellite or land lines connected to hospitals, clinics or physicians' offices.
5. Self-learning packages: distribution of educational materials (videotapes, computer disks, etc.) on a subscription or individual basis, designed to communicate with practitioners in a self-learning mode.

Program Announcements

Prior to each course, brochures describing the objectives, topics, faculty, meeting place, time and registration fees are mailed to the group for whom the course was developed.

Credits

Instruction presented in this program is not designed to give credit toward specialty qualification or academic degrees. However, a record of attendance is maintained for the benefit of those who attend, and AMA Category 1 hours are awarded for most courses.

The program of continuing medical education is accredited by the Accreditation Council for Continuing Medical Education, and a physician's attendance at approved courses is acceptable for credit toward the Physician's Recognition Award of the American Medical Association.

Fees

The enrollment fees for continuing education courses are listed separately for each course.

Course Descriptions

Note: Courses numbered 5000–5999 are open to medical students only.

Where appropriate, course average lecture-lab-clinic credit hours are designated, e.g. (4–1–2–5).

Interdepartmental

ITD 5100. Physical Diagnosis I (2-3-0-2)

Prerequisite: First-year standing in School of Medicine.

Teaches first-year medical students the skills to perform routine physical examination and apply these skills in a patient contact experience. First-year students interrelate with medical students in their clinical years, providing a very relevant introduction to clinical setting.

ITD 5141. Patient-Doctor (0-0-3-1)
Prerequisite: First-year standing in School of Medicine.
Experiential course involving observation of patient-doctor relationships in community-based practices.

ITD 5170. Neuroscience (9-2-0-6)
Prerequisite: First-year standing in School of Medicine.
Integrated course covering structure and function of human nervous system, introducing o clinical applications. The Departments of Cell Biology and Anatomy, Physiology and Endocrinology, Neurology, and the Division of Neurosurgery participate.

ITD 5180. Ethics (1-0-0-1)
Prerequisite: First-year standing in School of Medicine.
Course consists of didactic plenary sessions and group facilitated case-based discussions.

ITD 5190. Health Promotion (0-0-0-1)
Prerequisite: First-year standing in School of Medicine.
Background information concerning health issues related to risk-taking behaviors and how to alter these behaviors.

ITD 5200. Physical Diagnosis II (1-4-0-2)
Covers history-taking physical examination and presentation skills. Lectures, small-group activities and interaction with patients in hospital and clinics.

ITD 5211. Problem-Based Learning (2-0-0-1)
Course develops skills of self-directed learning, critical reasoning, self-evaluation, group skills, teaching skills, communication and ability to effectively retrieve, assess and synthesize information.

ITD 5230. Reproduction (4-0-0-2)
Prerequisite: Second-year standing in the School of Medicine.
Medical aspects of the reproductive process. Emphasizes role of endocrine system in reproduction. Includes sex differentiation, pregnancy, puberty, contraception and sexuality.

ITD 5250. Medical Microbiology (10-0-0-12)
Prerequisite: Completion of phase I.
Combines principles of immunology, medical microbiology and infectious diseases.

ITD 5260. Introduction to Clinical Medicine (4-0-0-6)
Prerequisite: Completion of phase I.
Introduces selected topics in medicine, pediatrics, surgery, obstetrics and gynecology. Relates pathophysiological and biochemical abnormalities of disease processes to clinical signs and symptoms of disease.

ITD 5280. Ethics (2-0-0-1)
Prerequisite: Second-year standing in School of Medicine.
Course consists of small group facilitated case-based discussions and an introduction to ward-team ethics.

ITD 5290. Disease Prevention (2-0-0-1)
Prerequisite: Second-year standing in School of Medicine.
Integrated with Clinical Medicine, Pathology, and Microbiology, the course provides the epidemiologic and statistical tools to evaluate the literature on clinical disease—prognosis, prevention and treatment, diagnostic testing and screening—as applied to the processes studied in the major courses. In addition, population based medicine and evidence based medicine are explored through seminars on disease outbreaks, health services outcomes, and managed care.

ITD 5292. Clinical Skills Interface (10-21-0-1)
Prerequisite: Completion of phase II.
One-week program teaching clinical skills to new junior students.

ITD 5295. National Board Review (4-0-0-1)
Prerequisite: Completion of phase I
Systematic review for the USMLE Step I examination.

ITD 5001. Clinical Clerkship in the Department of Physiology and Endocrinology (Special Elective)
Location: Hamilton Wing, Office on 15th St. and University Hospital
Enrollment: 1 Minimum 2 Maximum
Duration: One Month
Months Offered: September through June
Reproductive Endocrinology (Department of Physiology and Endocrinology) will primarily involve clinical clerkship utilizing the private patients of Drs. Gambrell and Natrajan at the University Hospital, as well as their office on 15th Street. In addition, didactic lecture material and case presentation and discussion will take place involving Drs. Gambrell and Natrajan, and departmental faculty, clinical fellows and students. The areas covered will include puberty, amenorrhea, galactorrhea, hirsutism and virilism, induction of ovulation and management of menopause.

Anesthesiology

ANS 5001. Anesthesiology Four Week Clerkship
Location: MCG Hospital and Clinics
Enrollment: 1 Minimum 4 Maximum
Prerequisites: None
Duration: One Month
Months Offered: August through June
Basic elective which includes pre and postanesthetic evaluation, followup and management of patients during anesthesia and also in the recovery room; fundamental considerations and application of cardiovascular resuscitation; inhalation therapy; diagnostic and therapeutic nerve blocks; the use of regional anesthetic drugs; technical experience in venous and arterial cannulation; patient monitoring, endotracheal intubation; fluid and electrolyte management; narcotics, analgesics, sedatives and hypnotics. The student will attend all scheduled teaching seminars and conferences. (Dr. Molinaro and Dr. Weatherred)

ANS 5002. Anesthesiology Research Elective (Special Elective)
Location: MCG Hospital and Clinics
Enrollment: Arrange individually with Chairman of Department of Anesthesiology
Prerequisites: ANS 5001 and acceptance by Chairman of Department of Anesthesiology
Duration: One to Two Months
Months Offered: All Year (Special Arrangement)
The Department of Anesthesiology has an ongoing program in basic laboratory and clinical research. Either of these areas are available for student participation, depending on the student's background, and interests, as well as projects that are then current in the department. The student will attend all teaching seminars and conferences. (Dr. Hadsell and Dr. Yodlowski)

ANS 5003. Anesthesiology Preceptorship (Special Elective–Green Sheet)
Location: Off Campus Elective
Enrollment: Arranged Individually
Duration: One Month
Months Offered: By Arrangement
Clinical experience in Anesthesiology in an off campus hospital approved by Departmental Chairman.

ANS 5004. Respiratory Care Elective
Location: MCG Hospital and Clinics
Enrollment: 10 Maximum
Prerequisites: None
Duration: One Month
Months Offered: July through May
Introduction to both theoretical and technical aspects of respiratory care. Emphasis is on basic pathophysiology as related to the patient's problems and in the appropriate treatment. The first half of the month focuses on oxygen, jet nebulizer therapy, and blood gases to name a few. The second half focuses on ventilator management. In addition to lectures, selected patients will be used to demonstrate practical therapeutic aspects of respiratory care. (Ms. Pam Rosema, R.R.T., M.H.S.A.)

ANS 5005. Obstetric Anesthesia Elective
Location: MCG Hospital and Clinics
Enrollment: 1 Maximum
Prerequisites: ANS 5001
Duration: One Month
Months Offered: September through June
Introduction to the perioperative anesthesia care of the parturient. Special emphasis will be placed on the effect of regional anesthesia on mother and baby, and on choice of anesthesia for C-section. The students will attend all teaching seminars and conferences. (Dr. Redd and Dr. Wakefield)

ANS 5006. Ambulatory Anesthesia Elective
Location: MCG Hospital and Clinics
Enrollment: 1 Maximum
Prerequisites: ANS 501
Duration: One Month
Months Offered: September through May
This elective offers excellent opportunity to learn preoperative and postoperative evaluation and management of the surgical outpatient with medical problems.

ANS 5007. Pediatric Anesthesia Elective
Location: MCG Hospital and Clinics
Enrollment: 1 Maximum
Prerequisites: ANS 501
Duration: One Month
Months Offered: August through June
Introduction to the perioperative anesthesia care of infants and children. Emphasis will be on anesthesia care unique to children and on preparation of the patient and parent for the operative experience. The student will attend all teaching seminars and conferences. (CMC Anesthesiology Staff)

ANS 5008. Pain Management Elective
Location: MCG Hospital and Clinics
Enrollment: 1 Maximum
Prerequisites: None
Months Offered: July through June
Closely supervised clinical experience in the management of acute and chronic pain. The experience will take place within the structure of the MCG Multidisciplinary Pain Center and the inpatient wards of the Medical College of Georgia Hospital and will include diagnosis and treatment of chronic pain conditions and the treatment of modalities for acute pain. The student will attend all scheduled teaching seminars and conferences. (Dr. Martin)

Biochemistry and Molecular Biology

BMB 5120. Biochemistry and Genetics (6-0-0-7)
Prerequisite: First-year standing in School of Medicine.
Covers chemistry and reactions of constituents of living matter, metabolism and control mechanisms at levels of biological organization from subcellular to organism. Emphasizes medical application.

BMB 5001. Tutorial Elective in Biochemistry and Molecular Biology (Special Elective–Green Sheet)
Location: MCG, Dept. of Biochemistry and Molecular Biology
Enrollment: As allowed by Department
Prerequisites: BMB 5120
Duration: One to Three Months
Months Offered: By Arrangement
Students may elect to study specific areas in biochemistry and molecular biology under the guidance of one or more faculty members working in that area. Arrangements to be made by the students with the members of the faculty of the department. Topic, time and credit to be arranged. (Dr. F. Leibach)

BMB 5002. Research in Biochemistry and Molecular Biology (Special Elective–Green Sheet)
Location: MCG, Dept. of Biochemistry and Molecular Biology

Enrollment: As allowed by Department
Prerequisites: BMB 5120
Duration: One to Three Months
Months Offered: By Arrangement

Students may arrange to join the research program being conducted by faculty in the Department of BMB. A list of faculty and their ongoing research projects is available in the department office. Time and credit hours to be arranged. (Dr. F. Leibach)

BMB 5003. Elective in Medical Genetics (Special Elective–Green Sheet)
Location: MCG, Dept. of Biochemistry and Molecular Biology
Enrollment: As allowed by Department
Prerequisites: BMB 5120
Duration: One to Three Months
Months Offered: By Arrangement

This elective will cover recent developments in human molecular genetics. Possible areas of focus are the human genome project and animal models for human gene therapy. Preference will be given to students who have already completed a Dean's Student Research Fellowship. Time and credit to be arranged through faculty members involved in teaching.

BMB 5004. Signal Transduction in Ocular Tissues (Special Elective–Green Sheet)
Location: MCG, Dept. of Biochemistry and Molecular Biology
Enrollment: 1–2 Students
Prerequisites: BMB 5120
Duration: One to Three Months
Months Offered: By Arrangement

This elective focuses on the role of phosphoinositide derived second messenger molecules in biochemical and pharmacological responses in ocular tissues treated with different stimuli. The students will gain hands-on experience by participating in an ongoing research project with one of the faculty members. The experimental protocols will include radiolabeling of tissues and analysis of phospholipid metabolic products, enzyme assays, Western immunoblotting, and use of other biochemical and pharmacological techniques. A written report on the project is required at the end of the elective period. Time and credit to be arranged. (Drs. Abdel-Latif, Akhtar and Yousufzai)

Cellular Biology and Anatomy

ANM 5110. Gross Anatomy (6-3-0-9)
Prerequisite: First-year standing in School of Medicine.

Study of anatomy of the human body as applicable to clinical practice. Lectures, laboratory and demonstration materials are directed studies.

ANM 5130. Cell Biology and Development (6-0-0-7)

Microscopic anatomy and development of all human organ systems and cellular biology of various tissues and organs.

ANM 5001. Advanced Studies in Medical Gross Anatomy
Location: MCG, R and E Bldg.
Enrollment: Maximum 20
Prerequisites: Senior Students Only
Duration: One Month
Months Offered: April

Independent studies of human gross anatomy with detailed dissections of human cadaver material. The student may concentrate upon an area or areas of particular need or interest, such as head and neck, limbs, body cavities or pelvis and perineum. Students are expected to explore the literature pertinent to their area(s) of interest in textbooks and journals. (Dr. Thomas F. Gale and Dr. David B. Lause)

ANM 5002. Research Elective in Anatomy (Special Elective–Green Sheet)
Location: MCG, Department of Cellular Biology and Anatomy
Enrollment: 2 MAXIMUM per faculty member
Prerequisites: Approval by Faculty Member with whom research will be done
Duration: One to Two Months
Months Offered: By Arrangement

Opportunity to participate in research programs being conducted by members of the faculty of the Department of Cellular Biology and Anatomy. Arrangements to be made by the students with a member of the faculty. (Dr. Paul McNeil)

ANM 5003. Special Topics in Clinical Anatomy (Special Elective–Green Sheet)
Location: MCG, Center for Clinical Anatomy Department of Cellular Biology and Anatomy
Enrollment: 2 Maximum
Prerequisites: Senior Students Only
Duration: One to Two Months
Months Offered: By Arrangement

This elective provides the senior medical student the opportunity to study intensively and perform thorough dissections relevant to research in an area of a clinically pertinent topic, under direct faculty supervision. (Dr. Colborn)

Emergency Medicine

EMED 5001. Emergency Medicine Clerkship
Location: MCG Hospital
Enrollment: 15 Maximum
Prerequisites: Core Curriculum
Duration: One Month
Months Offered: July through June

The month rotation is structured to give the student an introduction to the Specialty of Emergency Medicine. The rotation is designed to provide an opportunity for the student to gain experience in dealing with conditions routinely seen in the practice of Emergency Medicine. Clinical instruction in the initial evaluation and stabilization of the acutely ill and injured patient will be provided by working alongside

Emergency Medicine faculty who are present 24 hours a day. The rotation provides for ample clinical experience and patient contact. The schedule includes approximately 40 hours of patient contact a week and EMS experience. There is assigned reading and a final exam. More information can be obtained by contacting Dr. Hartmut Gross in the Department of Emergency Medicine, MCG Ext. 6619.

EMED 5002. Emergency Medicine Clerkship Off Campus (Special Elective–Green Sheet)
Location: One of several participating hospitals
Enrollment: Maximum 1 per location
Prerequisites: Core Curriculum
Duration: One Month
Months Offered: July through June

This is a special off campus elective arranged through the Department of Emergency Medicine at MCG. The months rotation is structured to give the student an introduction to the Specialty of Emergency outside the Medical College. Teaching materials are the same as EMED 5001. The rotation is the same as Emergency Medicine 501 in all aspects except for the location. The schedule includes approximately 9 hours of patient contact five days a week (180 hours total). Contact person in Emergency Medicine is Dr. Hartmut Gross at MCG Ext. 6619.

EMED 5003. Pediatric Emergency Medicine Clerkship (Special Elective–Green Sheet)
Location: MCG Hospital
Enrollment: 2 Maximum
Prerequisites: Core Curriculum
Duration: One Month
Months Offered: July through June

This elective will exposed the student to the wide variety of pediatric illnesses and injuries, which present to the Emergency Department. The student will assume progressive responsibility in the management of trauma, major and minor medical illnesses, and minor surgical procedures. Students will work directly with the Pediatric Attending, the Pediatric Emergency Medicine Attending or the Emergency Medicine Attending. Until the new Children' Medical Center is open, the rotation setting will be in the current MCG ED. Shifts will be scheduled during afternoons and evenings as well as 2 weekends. There will also be an exam at the end of each rotation. (Natalie Lane, M.D., ext. 1-3332)

Family Medicine

FMP 5000. Basic Clerkship Family Medicine (11-0-65-15)
Prerequisite: Successful completion of phase I.

Six-week supervised clerkship evaluating and managing patients seen primarily in the ambulatory family medicine practice setting. Many of the patients have undifferentiated health problems. Emphasizes evaluating and managing health problems. Students may draw assignments at the following Georgia Family Medicine residency programs: Medical College of Georgia and TriCounty Satellite Clinics; Memorial Medical Center, Savannah; Floyd Medical Center, Rome; Phoebe Putney Memorial Hospital, Albany; Medical Center, Columbus; and DDE Army Medical Center, Fort Gordon. Teaching sites are also in private practices in the Georgia cities of Augusta, Thomson, Waynesboro, Jesup, Blackshear, Moultrie, Tifton, Valdosta, and Villa Rica, and Edgefield, S.C.

FMP 5280. Problem-Solving (2-0-0-1)
Prerequisite: Second-year standing in School of Medicine.

Emphasizes historical problem-solving as the basis from which problem directed physical and laboratory evaluations are derived and diagnosis and management provided. Each teaching session utilizes frequently encountered patient problems from the ambulatory settings of family medicine to illustrate concepts of clinical problem-solving.

FMP 5001*. Family Practice Residency Externship The Medical Center of Central Georgia, Macon, GA (Special Elective)
Location: Family Practice Residency Program, The Medical Center of Central Georgia, Macon, GA
Enrollment: 1 Minimum 1 Maximum
Prerequisites: Completion of Core Rotations
Months Offered: July through June

This elective is structured as a subinternship with the Department of Family Practice. Activities include intensive hands-on direct responsibility for the continuing and comprehensive care of patients in both the ambulatory and inpatient settings, under close supervision from faculty and advanced residents. Also included are a range of clinical conferences and brief exposures to rural family practice and to nursing home care. Ambulatory clinic experiences in other specialty/subspecialty areas of particular interest to the student can be individually arranged. For further information contact: Dr. William Bina, Clerkship Director, Department of Family Practice, The Medical Center of Central Georgia, Macon, GA. Telephone: (912)784-3587. Participation in this elective must be arranged through the Department of Medical Education. Contact: Terri West, Coordinator (912)633-1063. (Participation in this elective must be approved by the Department of Family Medicine, MCG. Contact Medical Student Coordinator, ext. 1-4075.)

FMP 5002. Family Medicine Public Health Elective (Special Elective)
Location: Aiken County Health Dept., Aiken, SC
Enrollment: 1 Minimum 2 Maximum
Prerequisites: None
Duration: One to Two Months
Months Offered: July through June

This rotation exposes the student to the many services provided by the Aiken County Health Department including environmental inspections, home health visits, clinics for adults and children, and health educational programs. Weekly seminars will provide additional information regarding the programs

and organizational structure of the health department and the philosophy of public health practice. Upon completion of the course, the student will be able to describe the diverse structure, budget process, funding pathways and approximate expenditures of public health programs. For more information concerning this elective, contact: District Director of Health Education, Lower Savannah Health District, 803/642-1605. (Participation in the elective must be arranged and approved by the Department of Family Medicine; contact Medical Student Coordinator, Ext. 4075).

FMP 5003*. Preceptorship Family Practice (Special Elective)
Location: Private Practices across the State of Georgia
Enrollment: 1 Minimum 1 Maximum
Prerequisites: None
Duration: One to Two Months
Months Offered: July through June

The student may choose from Preceptors in various communities across the state who have agreed to assist in medical student teaching. These Preceptors, who have been screened by the Joint Board of Family Practice, have undergone training for their teaching roles. This elective provides the student with a supervised experience in the evaluation and management of patients with undifferentiated clinical problems encountered in the practice of Family Medicine. The student will participate in the office practice, hospital rounds, house calls, emergency room visits, and selected community activities. (Participation in the elective must be arranged and approved by the Department of Family Medicine; contact Medical Student Coordinator, Ext. 4075.)

FMP 5004. Clinical and/or Research Elective in Family Medicine (Special Elective)
Location: Off Campus or Dept. of FMP, MCG
Enrollment: Maximum 1 at any one location.
Prerequisites: None
Duration: One to two months
Months offered: July through June

Students wanting to pursue special educational electives with Family Medicine Preceptors, Residencies or Faculty can make arrangements for this unique experience through the department of Family Medicine. These experiences could include: patient care, research, special projects involving Psychosocial aspects of Medicine, drug dependency, family therapy, and other issues related to the provisions of health care to entire families. (Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact Medical Student Curriculum Coordinator, ext. 4075.)

FMP 5005. Family Practice Rural Medicine Externship, Sparta, GA (Special Elective)
Location: Tri-County Health System, Inc., Sparta, GA
Enrollment: 1 Minimum, 1 Maximum
Prerequisites: FMP 500, MED 500, PSY 500, OBG 500, PED 500
Duration: One Month
Months Offered: July through June

This elective is in rural family medicine and is provided through the Tri-County Health System in Sparta, Georgia. The student has supervised exposure to a population of patients with undifferentiated health problems and actively participates in the evaluation and management of these problems. The student becomes familiar with the uniqueness of rural health care practice and establishes an appreciation for frequently encountered problems both acute and chronic. The student also has daily group and individual teaching sessions. Travel and lodging availability should be discussed with Dr. Joseph Hobbs, Director of Predoctoral Education, Department of Family Medicine, 721-4674. (Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia, contact Student Curriculum Coordinator, ext. 4075.)

FMP 5006. The Geriatric Patient in the Nursing Home (Special Elective)
Location: Georgia War Veterans Nursing Home, Medical College of Georgia
Enrollment: 1 Minimum 2 Maximum
Prerequisites: FMP 500 or MED 500
Duration: One to Two Months
Months Offered: July through June

This rotation exposes the student to the wide variety of medical, social, psychiatric and institutionally related problems of the elderly commonly encountered by the primary care physician. The student is provided a panel of patients and participates in clinical evaluation and management under supervision of the attending physician. The student participates in clinical evaluation and management under supervision of the attending physician. The student participates in morning rounds from 9:00 until 11:30 a.m. with the Medical Director and participates in weekly team oriented patient care conferences. Through appropriate readings and didactic sessions the student becomes acquainted with diagnostic and management requirements of this patient population. Upon completion of this elective, the student is familiar with some of the more common geriatric health problems and the approach to their evaluation. (Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact Medical Student Curriculum Coordinator, ext. 4075.)

FMP 5007*. Family Medicine Residency Externship, FMP Residency Program, Floyd Medical Center, Rome, GA (Special Elective)
Location: Family Practice Residency Program, Department of Family Practice, Floyd Medical Center, Rome, GA
Enrollment: 1 Minimum 2 Maximum
Prerequisites: FMP 500, MED 500, PSY 500, OBG 500, PED 500
Duration: One to Two Months

Months Offered: July through November and January through June

This elective with the Family Practice Residency Training Program of the Floyd Medical Center in Rome, Georgia, provides the student with clinical experience in both ambulatory and inpatient settings of Family Practice. Concepts of comprehensive and longitudinal health care will be emphasized. In addition to the clinical exposure, the student will also participate in daily group and individual teaching sessions.

Availability of quarters and meals should be discussed with Dr. Mallory Smith, M.D., Director, Family Practice Residency Training Program, Floyd Medical Center, Rome, Georgia. Telephone: (706) 295-5644. (Participation in this elective must be arranged through and approved by the Department of Family Medicine. Medical College of Georgia; contact Medical Student Curriculum Coordinator, Ext. 4075).

FMP 5008*. Family Practice Residency Externship, The Medical Center, Columbus, GA (Special Elective)

Location: Family Practice Residency Program, The Medical Center, Columbus, GA
Enrollment: 1 Minimum 1 Maximum
Prerequisites: FMP 500, MED 500, PSY 500, OBG 500, PED 500
Duration: One To Two Months
Months Offered: July through June

This elective is designed to allow the senior medical students an exposure to the health care activities of a Family Medicine Residency. The students actively participate in various aspects of family health care provided in the teaching program of the Department of Family Practice at the Medical Center in Columbus, Georgia. Students participate in the care of Family Practice patients in the hospital and ambulatory setting. The students are also introduced to the principles of comprehensive and longitudinal health care. Supervision is provided by Family Practice physician faculty and private attending staff. For further information contact: Dr. Janine Burgher-Jones, Clerkship Director, Dept. of Family Practice, The Medical Center, Columbus, Georgia, telephone: (706) 571-1145. (Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact Medical Student Curriculum Coordinator, ext. 4075.)

FMP 5009*. Family Practice Residency Externship, Memorial Medical Center, Savannah, GA (Special Elective)

Location: Family Practice Program, Memorial Medical Center, Savannah, Georgia
Enrollment: 1 Minimum 1 Maximum
Prerequisites: FMP 500, MED 500, PSY 500, OBG 500, PED 500
Duration: One to Two Months
Months Offered: July through June

This elective at the Family Practice Residency Training Program of the Memorial Medical Center in Savannah, Georgia, provides the student with clinical experience in both ambulatory and inpatient settings of Family Medicine. In addition to the clinical exposure, the student also participates in daily group and individual teaching sessions. The student also participates in the provision of longitudinal and comprehensive health care.

Lodging, meals and travel allowances are usually available and should be discussed with Keith Ellis, M.D., Director of the Family Practice Residency Program Training Program, Memorial Medical Center, Savannah, Georgia. Telephone: (912) 356-8838. (Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact Medical Student Curriculum Coordinator, ext. 4075 and Tish Askew 921/350-8076).

FMP 5010*. Family Practice Rural Medicine Externship, Warrenton, GA (Special Elective)

Location: TriCounty Health System, Inc., Warrenton, Crawfordville and Gibson, Dept. of Family Medicine
Enrollment: 1 Minimum 1 Maximum
Prerequisites: FMP 500, MED 500, PSY 500, OBG 500, PED 500
Duration: One Month
Months Offered: July through June

This elective is rural Family Medicine and is provided through the TriCounty Health System, Inc. in Warrenton, Crawfordville and Gibson, Georgia, which serves as a rural teaching site for the Family Practice Residency Program at the Medical College of Georgia. The student has supervised exposure to a population of patients with undifferentiated health problems and actively participates in the evaluation and management of these problems. The student becomes familiar with the uniqueness of rural health care practice and establishes an appreciation for frequently encountered problems both acute and chronic. The student also has daily group and individual teaching sessions.

Travel: Students will accompany the attending physician faculty from Augusta to the rural teaching site. (Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact Medical Student Curriculum Coordinator, ext. 4075.)

FMP 5011*. Subinternship in Inpatient Family Medicine, Family Medicine Program, Medical College of Georgia, Augusta, GA (Special Elective)

Location: Family Medicine Inpatient Service, Medical College of Georgia Hospital, Dept. of Family Medicine, Medical College of Georgia, Augusta, GA
Location: Family Medicine, Medical College of Georgia, Augusta, GA
Enrollment: 1 Minimum 2 Maximum
Prerequisites: FMP 500
Duration: One to Two Months
Months Offered: June through May

This elective is provided through the Family Medicine Inpatient Service of the Department of Family Medicine, Medical College of Georgia. This ser-

vice provides the student with an indepth exposure to the broad range of medical problems confronting the Family Physician in a hospital environment. The student assumes the primary medical care responsibilities for patients on the service and is supervised by Family Medicine Faculty and Senior Family Medicine residents. The student participates in all phases of patient evaluation from admission to discharge planning. Further information regarding this elective may be obtained from Julie Hendrich, M.D., Department of Family Medicine, 721-4674. (Participation in this elective must be arranged and approved by the Department of Family Medicine, Medical College of Georgia; contact Student Curriculum Coordinator, ext. 4075).

FMP 5012. Family Medicine and Family Therapy, Dept. of Family Practice, The Medical Center, Columbus, GA (Special Elective)
Location: Department of Family Practice, The Medical Center, Columbus, GA
Enrollment: 1 Minimum 2 Maximum
Prerequisites: FMP 500, MED 500, PSY 500, OBG 500, PED 500
Duration: One to Two Months
Months Offered: July through June

This elective rotation is designed to allow medical students to increase their knowledge of family systems theory and to gain skill in its application in the practice of Family Medicine. Emphasis is placed on the student's acquisition of specific skills to evaluate families and plan treatment strategies. Emphasis is also placed on the integration of Family Therapy knowledge and skills into routine medical care as well as the care of families with psychosomatic problems, life cycle transition stresses, or problems produced by illness or medical treatment. The student evaluates families in the hospital, Family Practice Center, and the Family Stress Clinic. Supervision is provided by Family Physicians and a Family Therapist. For further information contact Janine Burgher-Jones, M.D., Clerkship Director, Department of Family Practice, 706/571-1145. (Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact Medical Student Curriculum Coordinator, ext. 4075).

FMP 5013*. Family Practice Residency Externship, Albany, GA (Special Elective)
Location: Southwest Georgia Family Practice Residency Program, Phoebe Putney Memorial Hospital, 500 Third Avenue, Suite 103, Albany, Georgia 31702
Enrollment: 1 Minimum 1 Maximum
Prerequisites: FMP 500, MED 500, PSY 500, OBG 500, PED 500
Duration: One to Two Months
Months Offered: July through June

The elective at the Southwest Georgia Family Practice Program at Phoebe Putney Memorial Hospital in Albany, Georgia provides the student with clinical experience in both ambulatory and inpatient settings of Family Medicine. In addition to the clinical exposure, the student also participates in daily group and individual teaching sessions. The student also participates in the provision of longitudinal and comprehensive health care.

Lodging, meals and travel allowances are available and should be discussed wiith Paul Williamson, M.D., Director of Southwest Georgia Family Practice Residency Program, telephone number (912) 889-2571. (Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact Medical Student Curriculum Coordinator, extension 4075.)

FMP 5014*. Family Practice Residency Externship, Morrow, GA (Special Elective)
Location: Georgia Baptist Medical Center, Family Practice Residency Program, 1000 Corporate Center Drive, Suite 200, Morrow, Georgia 30260
Enrollment: 0 Minimum 2 Maximum
Prerequisites: FMP 500, MED 500, PSY 500, OBG 500, PED 500
Duration: One Month
Months Offered: July through June

This elective with the Family Practice Residency Program of Georgia Baptist Medical Center is located in Morrow, Georgia (17 miles south of the hospital). It provides the student with clinical experience in both ambulatory and inpatient settings of Family Practice. A special emphasis of our rotation is the incorporation of the principles of Community Oriented Primary Care in the curriculum. Longitudinal ambulatory care is stressed during the rotation. The student will also participate in all lectures and in individual teaching sessions.

Availability of quarters and meals should be discussed with Frank R. Don Diego, M.D., Director, Family Practice Residency Program, Georgia Baptist Medical Center, Morrow, Georgia. Telephone: (800) 851-1078. (Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact Medical Student Curriculum Coordinator, Ext. 4075)

FMP 5015. Primary Care Sports Medicine (Special Elective)
Location: Department of Family Medicine, MCG
Enrollment: 1 Minimum 1 Maximum
Prerequisites: None
Duration: One Month
Months Offered: July through June

The primary care sport medicine elective is a clinical rotation for students interested in sports medicine. Through this rotation the student will be exposed to the wide range of sports medicine problems managed by a family practice sports medicine physician. The student will receive clinical experience in the Sports Medicine Clinic at MCG as well as participating in the fieldside medical coverage of various sporting events in the community. Following this rotation the student should be able to perform a thorough musculoskeletal physical examination and be familiar with the management of common sports medicine injuries. The student

will be evaluated on their ability to perform the musculoskeletal examination and their evaluation of patients during the rotation. (Participation in this elective must be arranged through and approved by the Department of Family Medicine Student Curriculum Coordinator, ext. 4075.)

Medicine

Allergy Immunology Elective: *See PED 5006*

MED 5000. Basic Clerkship Medicine (10-0-40-30)
12-week core clerkship introducing fundamentals, principles and skills of internal medicine. Students participate in patient care as a member of the health care team. Emphasizes bedside clinical skills, patient presentations, write-ups, logical approach to diagnostic decision-making, and accumulation and synthesis of medical knowledge. Every effort is made for all students to spend 8 weeks on inpatient services (at least one month on a general medicine service) and one month (if possible) in ambulatory setting.

Dermatology

MED 5001. Dermatology
Location: MCG Hospital and Clinics, Ft. Gordon and VA Hospital
Enrollment: 4 Minimum 5 Maximum
Prerequisites: None
Duration: One Month
Months Offered: July through June
One month clerkship experience on the Dermatology service. Students will see inpatients and outpatients at the MCG Hospital and Clinics and also outpatients at Dermatology clinics at Fort Gordon, and VA Hospitals. Students participate in Dermatopathology Conferences, Journal Clubs, and Basic Science Seminars. Supervision will be provided by the full time staff and clinical faculty of the Section of Dermatology and the Dermatology housestaff. (Dr. Jack L. Lesher, Jr.)

MED 5002. Off Campus Dermatology (Special Elective–Green Sheet)
Location: Off-Campus
Prerequisite: DER 501
Off campus electives may be arranged, with prior approval of the faculty. (Dr. Jack L. Lesher, Jr.)

MED 5003. Advanced Dermatology (Special Elective)
Location: MCG Hospital and Clinics
Enrollment: One Maximum
Prerequisites: DER 501
Duration: One Month
Months Offered: By special arrangement
A one month elective for students committed to residency training in dermatology. Approval by Dermatology faculty.

MED 5004. Dermatologic Surgery and Cutaneous Oncology (Special Elective)
Location: MCG Hospital and Clinics, Ft. Gordon and VA Hospital
Enrollment: 1 Maximum
Prerequisites: DERM 501 and approval by Section Faculty
Duration: One Month
Months Offered: July through June
One month clerkship experience in dermatologic surgery clinics. A set of required readings in cutaneous oncology will be provided. Pigs feet sessions in basic surgical techniques will be conducted. Students will participate in dermatopathology and basic science conferences as well as journal club. The student will gain histologic experience in cutaneous tumors through participation in Mohs surgery clinics two days per week. Supervision will be provided by the full time faculty and residents in the Section of Dermatology.

Humanities

MED 5005. Special Electives for Individuals may be arranged

MED 5006. Ethical Issues in Medicine (Special Elective)
Location: MCG
Enrollment: 7 Maximum
Prerequisites: None
Duration: One Month
Months Offered: July through June
Participants will explore some of the most significant and interesting problems arising out of the practice of medicine using the tools of ethical analysis. The selection of specific issues will depend upon the mutual discretion of student and instructor. Examples might include such general topics as informed consent, human experimentation, reproduction, patient/physician contract, health care distribution, organ transplantation, care of the dying, and so forth. The course will consist of cooperative research in library and discussion of common readings and current clinical issues. (Dr. Richard Martin)

MED 5007. Law and the Physician
Location: MCG
Enrollment: August: 14 per month; Other Months: 7 per month
Prerequisites: None
Duration: One Month
Months Offered: July through June
The course will cover issues in law which specifically concern the practicing physician, such as professional responsibility (malpractice), expert testimony, informed consent, criminal statutes relating to medicine, confidentiality, contract law, abortion, AIDS, withdrawal of life support, insurance, and other topics selected by students and instructor. The instructional methods will include indepth discussion, research and clinical application. (Dr. Richard Martin)

Medicine

MED 5008*. Acting Internship at VA Hospital
Location: VA Hospital, Augusta, Georgia
Enrollment: 1 Minimum 2 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

Students in this elective function as acting interns on the general medicine services at the Veterans Administration Hospital. The student will alternate patients with the intern in the initial workup treatment and care of these patients. The student will be closely supervised by the resident and faculty physician attending on the service. The substitute intern will be responsible for planning and instituting the diagnostic workup and therapeutic program for his patients. In addition, he will assist in the teaching of junior medical students assigned to his service. The acting intern's on call schedule will be identical to that of the ward team.

(Dr. Anthony L. Mulloy, Executive Specialty Care Service Director, VA)

MED 5009*. Acting Internship at Eisenhower Medical Center, Fort Gordon, GA
Location: D. D. Eisenhower Army Medical Center (DDEAMC)
Enrollment: 1 Minimum 2 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

The student will participate in rounds, conferences, clinics and ward work. The staff of the hospital will serve as faculty for this course. Students will be assigned to one of the Internal Medicine ward services. A maximum of 3 students can be assigned to Internal Medicine. The on call schedule for the student will be identical to that of the ward team. Students will gain perspective of ambulatory medicine by participating in internal medicine clinic. (Moore)

MED 5010. Rheumatology
Location: MCGH
Enrollment: 1 Minimum 6 Maximum
Prerequisites: None
Duration: One or Two Months
Months Offered: July through June

A clinical multidisciplinary experience in the rheumatic diseases with a basic core of material pertinent to major diseases in this area; experience with consulting an clinical material. Special desires for more defined endeavor by the student will be considered. (Drs. Bailey, Mealing, Loebl and Field).

MED 5011*. Acting Internship at MCG Hospital
Location: MCG Hospital
Enrollment: Maximum 4
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

Students taking the acting internship at MCG will essentially function as an intern on the team, admitting patients in sequence with the interns and working directly under the resident. Acting interns will be expected to attend all conferences the interns attend. The acting intern will complete the initial work up and determine the treatment plan in conjunction with the resident. The acting intern will function as the primary care physician for his/her patients but will be closely supervised in all activities by the resident and attending faculty physician. The acting interns on call schedule will be identical to that of the ward team.

MED 5012.Hematology/Oncology
Location: MCGH and VAH
Enrollment: 1 Minimum 4 Maximum
Prerequisites: MED 500
Duration: One or Two Months
Months Available: July through June

This elective is designed to provide the basics in clinical hematology and medical oncology. Indepth study of blood and marrow morphology is emphasized. An approach to diagnosis and management as well as general principles of cancer chemotherapy will be stressed. The importance of interdisciplinary cancer decision making (internist, surgeon, radiation therapist) will be emphasized. Two halfday clinics each week are arranged to emphasize the diagnosis and therapy of common hematologic and oncologic disorders. (Drs. Burgess, Hudson, Faguet, Jillella, Dainer and Kutlar).

MED 5013. Renal Transplant/Yellow Medicine Elective
Location: MCGH
Enrollment: 1 Minimum 2 Maximum
Prerequisites: MED 500, SUR 500
Duration: One Month
Months Offered: July through June

Principal objective of this elective is to learn basic transplantation immunology and a practical approach to renal transplant patients. Emphasis will be placed on evaluation of patients in the outpatient transplant clinic as well as hospitalized transplant patients. Opportunity will be available to observe renal transplantation in the operating room. In addition, inpatient experience in managing patients with renal disease including hemo and peritoneal dialysis, transplant rejection, nephrotic syndrome and uremic complications. Procedural opportunities may include dialysis catheter insertion. The service will be assisted by a renal fellow and medicine resident. (Drs. L. Mulloy, M. Jagadeesan, and James Wynn)

MED 5014. Rehabilitation Medicine at Walton Rehabilitation Hospital
Location: Walton Rehabilitation Hospital, Augusta, Georgia
Enrollment: 1 Minimum 1 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

Objectives of the elective will be to learn general principles of rehabilitation medicine in the hospital setting, in addition to participation in a multidisci-

plinary approach to treatment of patients undergoing rehabilitation. The student will have some clinical responsibility for patients admitted to the hospital and follow them through their rehabilitation. Specialty programs for Brain Injury, Pediatric Rehab., Spinal Cord Injury, Stroke Rehab. (Dr. Rose Trincher)

MED 5015. Clinical Cardiology Savannah (Special Elective)
Location: Department of Adult Cardiology, Lloyd Goodman, M.D., Medical Dir., Memorial Medical Center, Inc., Savannah, GA
Enrollment: Maximum 1*
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

*This elective is by arrangement only with the Medical Student Coordinator by calling Tish Askew at 912/350-8076. After signing up for this elective, drops must be cleared by the Medical Student Coordinator in Savannah.

Students will participate in daily ECG instruction as well as cardiovascular evaluation of all service consultations and daily rounds, including rounds on private patients when appropriate. Supervised participation in the weekly Cardiac Clinic, opportunity for observation of cardiac catheterization procedures, deep line placement (especially pulmonary artery balloon catheters), pericardiocentesis and noninvasive procedure, including exercise testing, with emphasis on echocardiography are included. Students will attend all medical education programs, including daily noon conferences, Friday Grand Rounds and Wednesday morning House Staff Conference. Students may participate, if time permits, in general medical morning report and/or attending rounds.

MED 5016. Nephrology Consult Elective
Location: MCGH
Enrollment: 1 Minimum 4 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

Experience in clinical nephrology through participation in inpatient consultations, teaching conferences, and once weekly general nephrology outpatient clinic. (Drs. P. Fall, L. Mulloy, S. Sepulveda, and M. Jagadeesan)

MED 5017. Cardiology Consultation Service at MCGHC
Location: MCGHC
Enrollment: 3 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

The emphasis of this rotation is on consultative cardiology. The student will work closely with the cardiology attending and the cardiology fellow. The major clinical emphasis is on physical diagnosis and differential diagnosis of various cardiovascular diseases. Students will be familiarized with the indications, usefulness and limitations of special procedures such as echocardiography, stress testing, nuclear cardiology and cardiac catheterization. The student will attend weekly Cardiology Grand Rounds and Catheterization conferences. (Drs. Garrison, Prisant, Shah, Robinson and Heesch for MCGH).

MED 5018. Cardiology Consultation Service at VA
Location: VA
Enrollment: 1 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

The emphasis of this rotation is on consultative cardiology and electrocardiographic interpretation. The student will work closely with the cardiology attending and the cardiology fellow. The major clinical emphasis is on physical diagnosis and differential diagnosis of various cardiovascular diseases. The student will read a considerable number of electrocardiograms. Students will be familiarized with the indications, usefulness and limitations of special procedures such as echocardiography, stress testing, nuclear cardiology and cardiac catheterization. The student will attend weekly Cardiology Grand Rounds and Catheterization conferences. (Drs. Robinson, Shah, Pallas, Heery, Mensah, Ahmed, Heesch, and Marks)

MED 5019. Cardiology at Eisenhower Medical Center (Ft. Gordon)
Location: DDEAMC
Enrollment: 1 Minimum 1 Maximum
Prerequisites: MED 500
Duration: One to Two Months
Months Offered: July through June

This course is designed to provide basic knowledge in the problems of heart disease and its complications. Students will participate in the care of patients in the Intensive Care Unit as well as on medical wards and outpatient service. They will also spend time understanding and reading electrocardiograms, phonocardiograms, echocardiograms (M mode and 2D), and Graded exercise tests (GXT). (Drs. Neasman, Wendt, Arthur, and Culclasure)

MED 5020. Cardiology at VA Acting Internship
Location: VA Hospital, Downtown Division
Enrollment: 1 Minimum 2 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

The concentration is on direct patient care and management based on sound approaches to cardiologic diagnosis and management. Students will participate in the care of CCU and Ward patients as well as outpatient followup. Experience in exercise testing, ECG interpretation and exposure to other graphics will be offered. The on call schedule will be identical to that of the ward team. (Drs. Robinson, Shah, Pallas, Heery, Mensah, and Ahmed)

MED 5021. Gastroenterology at MCGH
Location: MCGH
Enrollment: 1 Minimum 2 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

This course is designed to provide an understanding of clinical aspects of diseases of the digestive system, including endoscopy, interpretation. of gastrointestinal X-rays, biopsies and laboratory tests. It consists of rounds, conferences and clinics at the MCG Hospital. (Drs. Griffin, Schuman, Singh, Middleton, Webster, Curtis, and Schade)

MED 5022. Clinical Cardiology
Location: Augusta Regional Hospital, Augusta
Enrollment: 1 Minimum 1 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

The student will serve as an extern to one physician engaged in the practice of cardiology. This will involve diagnostic workup, rounding on hospitalized patients, and training in the use of invasive and noninvasive techniques of patient study including EKG, fluoroscopy, office and hospital Nuclear Cardiology, treadmill, echocardiography, external pulse recordings, cardiac catheterizations. An 8 bed coronary care unit is heavily utilized and emergency procedures are stressed. The same self teaching aids and end of course testing will be used as in MED 513. (Dr. Mucha)

MED 5023. Pulmonary Diseases Consult
Location: MCGH
Enrollment: 1 Minimum 2 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

This elective is designed to provide experience in consultative pulmonary medicine. Emphasis is placed upon the clinical evaluation of patients with altered lung function, and the appropriate use of both invasive and noninvasive pulmonary diagnostic procedures. The student will gain experience in interpretation of chest roentgenograms, pulmonary function tests, and arterial blood gases. Selected pulmonary topics are covered in the weekly pulmonary conference. (Drs. Davis, Gossage, Dupre, Speir and Chaudhary)

MED 5024M. Infectious Diseases
MED 5024FT
MED 5024VA
MED 5024UH
Location: MED5024M–MCG Hospital and Clinics, MED5024FT–Dwight David Eisenhower Army Medical Center, MED5024VA–VA Medical Center, MED5024UH–University Hospital
Enrollment: MCG: Maximum 4, VAMC: Maximum 2, DDEAMC: Maximum 1, UH: Maximum 2*
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

This clinical consultation service provides experience in the diagnosis and management of patients with infections, interpretation of stained specimen cultures and sensitivity data, serology and the appropriate use of antimicrobial and antiviral agents. The elective consists of rounds, clinics and conferences at the MCG Hospital and Clinics, VA Medical Center, and Dwight D. Eisenhower Army Medical Center. Internal Medicine Residents are usually available at VA, MCG and FT. Gordon hospitals; infectious disease fellows may additionally attend at the VA and MCG hospitals. Daily didactic instruction is provided. On call availability is needed. Students may elect which hospital with preferences honored insofar as possible. Some MCG and VA physicians routinely make consultation rounds at both the VA Medical Center and MCG Hospital and Clinics concurrently (in the same month). Thus, patients are assigned in rotation, not on the basis of hospital preference during these months. A joint ID problem conference rotates weekly between the four hospitals and is held Friday at 10:00 AM. MCG and VA students routinely attend two clinics weekly: Monday, Tuesday or Wednesday PM (MCG) and Thursday AM (VA or MCG). HIV disease is common, particularly in these clinics. The ID office (Ext. 721-2236) can give the students the attending's name for any month after assignments are made.

MCG/VA: Drs. J. Peter Rissing (Section Chief), David Haburchak, Cheryl Newman, Malliga E. Ganapathy and Brian A. Catto.

Ft. Gordon: Dr. Robert J. Kazragis

University Hospital: Dr. Jack Austin

The student(s) will spend four weeks working one on one with a Clinical Infectious Disease attending at the University Hospital. Duties include inhouse consults as well as participating in the care of office patients. Additionally, the student attends the Wednesday University ID clinic and sees consults for the staff service. Didactic instruction is provided daily. The student attends the Friday ID conference and other conferences as appropriate.

MED 5025. Preceptorship in Internal Medicine (Special Elective–Green Sheet)
Location: Office of the Preceptor Selected
Enrollment: Arranged individually
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

Clinical preceptorship spent working closely with an internist. Each student will accompany the preceptor in his office and hospital functions during the period of the elective. Before approval the student must provide a written statement from the prospective preceptor, accepting student to do elective, including description of the content of the elective and the name of the preceptor responsible for evaluation. Elective must be approved by Dr. T. Andrew Albritton. (BIW 554, Ext. 2055)

MED 5026. Critical Care Medicine (VA ICU)
Location: VA, Downtown Division, Augusta, GA

Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

A primary care elective where the student can expect patient care teaching in all aspects of Critical Care. Especially valuable to those interested in Surgery, Anesthesia or Medicine. Work with a critical Care Team: Intern, Resident, Fellow, Staff. (Drs. DuPre, Ewald, Smith, Davis, and Gossage)

MED 5027. Off Campus Elective (Special Elective–Green Sheet)
Location: Off Campus
Enrollment: Indefinite
Prerequisites: MED 500
Duration: One to Two Months
Months Offered: July through June

Special arrangements can be made for elective periods of one month in the Department of Medicine at other medical schools and teaching institutions. These electives can be spent in general Internal Medicine or medical subspecialties. The following must accompany the Green Sheet: written statement accepting student to do elective including description of the content of the elective and name of preceptor responsible for evaluation. Elective must be approved by Dr. T. Andrew Albritton, BIW 554, ext. 2055.

MED 5028. Research Elective in Medicine (Special Elective–Green Sheet)
Location: MCG Hospital and Clinics and/or VA Medical Center
Enrollment: 1 Minimum 16 Maximum
Prerequisites: Approval by Faculty Member with whom research will be done
Duration: One Month or longer by arrangement
Months Offered: July through June

Opportunity to participate in research programs being conducted by members of the faculty of the Department of Medicine. Arrangements to be made by the student with a member of the faculty. A description of proposed project must be submitted to and approved by Dr. T. Andrew Albritton, BIW 544, Ext. 2055. A copy of the description must accompany the Green Sheet.

(The research elective in Metabolic and Endocrine Disease requires MED 548 as a prerequisite.)

MED 5029*. Acting Internship at Memorial Medical Center, Savannah, GA (Special Elective*)
Location: Memorial Medical Center, Savannah, Georgia
Enrollment: 1 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

*This elective is by arrangement only with the Medical Student Coordinator by calling Tish Askew at 912/350-8076. After signing up for this elective, drops must be cleared by the Medical Student Coordinator in Savannah.

Students will essentially function at a "subintern" level. He/she will be responsible for case presentations to attendings, workup and care of patients while under the supervision of an upper level resident. This will give students the opportunity to become intimately involved in the decision process and care of his/her patients. Call will be taken with the assigned team, which is every fourth day. Didactic teaching and rounds will be conducted by fulltime faculty and practicing physicians.

MED 5030*. Advanced Internship at Georgia Baptist
Location: Georgia Baptist Health Care System, Atlanta, GA
Enrollment: 1 Minimum 1 Maximum
Prerequisites: MED 500
Duration: One to Two Months
Months Offered: July through June

The Department of Medicine at Georgia Baptist Health Care System in Atlanta, Georgia offers a clerkship in General Internal Medicine and all subspecialties. Clerkships will involve evaluation and management of both in- and outpatients. The program, to include conferences, rounds and seminars, is under the direction of full time department physicians in Internal Medicine. On Call Schedule is individualized, depending on rotation but will be on more frequently than every fourth night. Internal Medicine Program Director: Guillermo Umpierrez, M.D. Limited housing available.

MED 5031. Clinical Cardiology
Location: Augusta Regional Hospital, Augusta
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

The student will serve as an extern to three physicians engaged in the group practice of cardiology. This will involve diagnostic workup, rounding on hospitalized patients, and training in the use of invasive and noninvasive techniques of patient study including EKG, fluoroscopy, treadmill, echocardiography, nuclear cardiology studies, Holter studies, pacemaker insertion, cardiac catheterizations, and coronary angioplasty. Also, there is exposure to a busy cardiac office practice. An 8 bed coronary care unit and telemetry unit are heavily utilized and emergency procedures are stressed. (Drs. Reeves, Smith and Dick) 863-5635.

MED 5032. Pulmonary/Critical Care in Private Setting
Location: Drs. Haynes, Brannen and Rosenblum's Office and Hospitals
Enrollment: Maximum 2
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June except August, December, April

The student will round with Dr. Haynes, Dr. Brannen or Dr. Rosenblum on patients in the private hospitals

in Augusta. He/She will participate in the initial evaluation and treatment of patients in the critical care units as well as consultations and routine admissions. He/She will participate in decisions regarding mechanical ventilation, monitoring and participate in procedures where appropriate. Discussions regarding all aspects of pulmonary/critical care will be available as well as a reading list to allow the student to obtain a well rounded experience in pulmonary/critical medicine. The student's interests will shape the program to an individualized clerkship. Pulmonary function testing, pulmonary metabolic stress testing, bedside metabolic testing, bronchoprovocation, hyperbaric oxygen therapy, sleep study analysis, bronchoscopy, thoracentesis and percutaneous needle biopsies of the lung are some of the areas available for exposure. (Drs. Haynes, Brannen and Rosenblum) 706/774–7400 Report to University Professional Building #4, Suite 1000.

MED 5033. Pulmonary Medicine Consult at VAMC
Location: VA Downtown Division, Augusta
Enrollment: 1 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

Consult service elective featuring the availability of the full gamut of pulmonary diagnostic techniques; emphasis on pathophysiology and its application to patient care. (Drs. DuPre, Smith, Ewald, Gossage, and Davis)

MED 5034. Pulmonary/Medical Critical Care
Location: MCGH
Enrollment: 1 Minimum 2 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

This elective is designed to provide an intensive experience in critical care medicine. Emphasis is placed upon clinical evaluation and management of critically ill patients: mechanical ventilatory support, hemodynamic and ventilatory monitoring and other critical care interventions. Didactic sessions, conferences and teaching rounds provide a broad view of clinical approaches to critically ill patients. (Drs. Speir, DuPre, Chaudhary, Gossage and Davis)

MED 5035. Clinical Endocrinology (Medicine) at Savannah, GA (Special Elective*)
Location: Memorial Medical Center and Office of Kaveh Ehsanipoor, M.D
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

*This elective is by arrangement only with the Medical Student Coordinator by calling Tish Askew at 912/350-8076. After signing up for this elective, drops must be cleared by the Medical Student Coordinator in Savannah.

Students will have exposure to Clinical Endocrinology and Diabetes Mellitus both in a hospital setting as well as private practice. Inpatient consultations and ambulatory clinics at Memorial Medical Center are the primary activities of the elective. In addition, students will also be involved in the evaluation and followup of patients in the private office setting. These activities are carried out in association with one or more Medical and/or Family Practice Residents. All activities are supervised by Dr. Ehsanipoor. Thyroid, adrenal, parathyroid, pituitary, gonadal and reproductive diseases as well as electrolyte disturbances and diabetes will be discussed. Didactic lectures are given by Dr. Ehsanipoor at least twice a month.

MED 5036. Pulmonary Elective for Senior Students at Eisenhower Medical Center, Ft. Gordon, GA
Location: DDEAMC
Enrollment: 1 Minimum 1 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

The Pulmonary Disease elective will give the student exposure to all facets of acute and chronic pulmonary diseases. Inpatient and outpatient consultations will be performed under the supervision of the fundamentals of a sophisticated pulmonary function laboratory and will be expected to learn the basic interpretations of pulmonary function tests. The student will be expected to participate in teaching conferences involving the pulmonary disease service. (Drs. Whitlock, Honeycutt, Thompson, and Lepler)

MED 5037. Gastroenterology at Eisenhower Medical Center, Ft. Gordon, for 4th year medical students
Location: DDEAMC
Enrollment: 1 Minimum 1 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

The student is expected to participate in all aspects of the Gastroenterology service, including inpatient and outpatient consultations, and to observe GI procedures (such as gastroscopy, colonoscopy, laparoscopy). The student will be taught proctoscopy in the weekly proctoscopy clinic. Basic GI physiology and pathophysiology will be stressed. The number of patients seen will be limited and the student will be expected to provide references appropriate for each case he/she evaluates. A reading syllabus covering basic GI physiology and disease will be provided. The student will be expected to give a 15 minute seminar once a week on the topic of his/her choice (covering an area of basic GI physiology). The student is expected to attend GI Journal Club and GI Pathology conferences Thursday afternoon at the Medical College of Georgia.
(Drs. Rosen, Little, Lazas, McNally, and Bachinski)

MED 5038. General Internal Medicine Preceptorship
Location: University Hospital, Augusta
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

During this elective, the student will have the opportunity to observe Internal Medicine in a private practice setting. This includes interacting with other medical and surgical specialties, procedures such as flexible sigmoidoscopy, pulmonary function testing and hyperbaric therapy, and direct patient care. The patient care includes outpatient and inpatient care, with the student making rounds on inpatients in the intensive care and general ward. The schedule and emphasis will be tailored to the students interests. (Jimmy V. Lemke, M.D.)

MED 5039. Clinical Endocrinology (Medicine) Interrelates with ITD 501 E
Location: MCGH and VAMC
Enrollment: 1 Maximum
Prerequisites: MED 500
Duration: 1 Month
Months Offered: July through June

Inpatient consultations and ambulatory clinics at the MCG H&C's and VAMC are the primary activities of the elective. These activities are carried out in association with one or more medical residents and a clinical endocrine fellow. They are supervised by members of the Section of Endocrinology and Nutrition. The supervised management of cases encountered in these settings will provide the vehicle for teaching. Thyroid, adrenal, parathyroid, pituitary and gonadal diseases as well as diabetes, developmental problems, virilization and electrolyte disorders will be discussed. There will be opportunities for didactic presentations and students will be expected to read relevant clinical literature. A textbook and collection of reprints is provided on loan and a series of core didactic lectures is presented for students on the rotation. Student responsibilities will include participation in Section consultation and clinic activities, as well as the weekly clinical conference at which case presentations will be made. (Drs. Bransome, Calle, Huff, Isales, Stein, Stachura, and Louard).

MED 5040. Cardiology
Location: Office of Drs. Abdulla Abdulla, Louis Battey, Ray Johnson, Peter Bigham, Bleakley Chandler, Jr., Paul Cundey, Jr., Paul Cundey, III, John Hennecken, Scott Key, John Salazar, and Richard Whitlock, Augusta, GA
Enrollment: 1 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July, September, November, January, March, and May

Student will have exposure to clinical cardiology both in hospital setting as well as the office. Student will be involved in the evaluation of new patients, as well as management of routine followup of patients, in terms of physical examinations and discussion of acceptable methods of therapy. In addition, the student will become familiar with Treadmill Exercise Testing, both in the office as well as hospital setting. This group of physicians has a two dimensional sector scanner in the office that is used on a daily basis, so that the student will also become exposed to both M mode echocardiography as well as two dimensional sector scanning, Doppler Echo technique and transesophageal echo. This will provide additional means of evaluation of patients with abnormalities.

Dr. Abdulla is trained in nuclear cardiology for thallium studies. A nuclear camera is operational in their office for tomographic thallium treadmill studies.

An average of anywhere from 25 to 30 cardiac catheterizations at University Hospital per week are performed and the student would have some exposure to these patients. The student would not be expected to assist during this procedure, but rather to become familiar with the techniques and indications of the procedure. He will also watch angioplasty directional atherectomy and permanent pacemaker insertions along with electrophysiologic procedures.

This elective will provide the opportunity for a senior medical student to evaluate a patient in the office and follow his activity both as an outpatient as well as through a hospital admission to include certain diagnostic tests and after through bypass surgery. Hopefully, this will allow the student to formulate his own method of appropriate evaluation and therapy in patients with cardiovascular illnesses.

A student who is interested in further training in cardiology or internal medicine after graduation is preferred by this group of physicians.

MED 5041. Diabetes Elective in Birmingham
Location: Medical Center., East Birmingham, AL
Enrollment: Maximum 2
Prerequisites: MED 500
Duration: One or Two Months
Months Offered: July through June

The Diabetes Clinic of Medical Center East is a unique facility designed to deliver state-of-the-art comprehensive diabetes care. The student will be expected to participate in all aspects of clinical care in the ambulatory and inpatient settings. The student will be able to assist with clinical procedure and help design individualized treatment plans. Procedures performed in the clinic include: exercise stress testing (peripheral and autonomic), pulmonary function tests, flexible sigmoidoscopy, hyperbaric and whirlpool therapy, as well as ophthalmologic and periodontal evaluations. In addition to patient care responsibilities the elective includes didactic sessions, conferences and self teaching modules. Free room and board is available for students not living in the Birmingham area. (Buris Boshell, M.D., Robert Chadband, M.D.) INQUIRE: Diabetes Clinic, R. Chadband, M.D., 48 Medical Park East Drive, Suite 154, Birmingham, AL 35235, Phone (205) 838-3673)

MED 5042. Nephrology Service at DDEAMC, Ft. Gordon, GA
Location: D.D. Eisenhower Army Medical Ct.
Enrollment: 1 Minimum 1 Maximum
Prerequisites: MED 500
Duration: One to Two Months
Months Offered: July through June
The student will participate in rounds, conferences, clinics and ward work. The staff of the Nephrology Clinic will serve as faculty for this course. Inpatient and outpatient consultations will be performed. (Drs. Pisel and Igartua)

MED 5043. Applications of Computers in Medicine
Location: CB 1835, R&E Bldg.
Enrollment: 1 Minimum 3 Maximum
Prerequisites: None
Duration: One Month
Months Offered: September through May, Other Months by Special Arrangement
This course allows students to study the application of computers to medicine. It allows individuals with any level of expertise to learn about the applications of computers in medicine. Students will conduct a study of applications of interest to them and will turn in a brief description of the results of their study. Projects may include evaluations of software or hardware, development of a computer program, a report of particular applications, etc. (Dr. Lloyd Lewis, Ext. 9730 for information.)

MED 5044. Internal Medicine–Private Service
Location: University Medical Associates
Enrollment: Maximum 1
Prerequisites: None
Duration: One Month
Months Offered: July through June
This elective is designed to provide the student with an opportunity to participate in the outpatient and inpatient delivery of private internal medical care. Significant emphasis will be placed in the areas of diabetes, pulmonary disease, cardiovascular disease, and infectious disease. The student is given the opportunity to work one-on-one with Private Attendings and to participate as a high level in patient management and procedures related to the practice of General Internal Medicine and its subspecialties. (Drs. C. Green, S.T. Smith, C. Shaefer, B. Tarpley, D. Boone, A. Sanders, M. Thompson, and R. West, 706/774-7400) Report to University Professional Building #4, Suite 1000.

MED 5045. Ambulatory and Consultative Internal Medicine Service
Location: D.D. Eisenhower Army Medical Ct.
Ft. Gordon, Georgia
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One to Two Months
Months Offered: July through June
The student will participate in all aspects of General Internal Medicine to include outpatient consultations and procedures. The number of patients will be limited and the student will be expected to provide references appropriate for each case he/she evaluates. The student will be expected to attend all internal medicine conferences. (Dr. Dacey)

MED 5046. Endocrinology Service at Eisenhower Army Medical Center
Location: D.D. Eisenhower Army Medical Ct., Ft. Gordon, Georgia
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One to Two Months
Months Offered: July through June
The student will participate in rounds, conferences, clinics and ward work. The staff of the Endocrinology Clinic will serve as faculty for this course. Inpatient and outpatient consultations will be performed. (Dr. Hancock and Gibson)

MED 5047. Medical Intensive Care
Location: DDEAMC
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June
Primary care acting intern experience in the ICU setting. Acting intern will provide primary care for up to 3 patients under the supervision of a resident and attending physician. Call schedule will be every fourth night; rounds on Saturday and Sunday required. (Drs. Whitlock, Honeycutt, Browne, Lepler, and Thompson)

MED 5048. Ambulatory Medicine Savannah (Special Elective*)
Location: Memorial Medical Center, Inc., Savannah, GA
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One Month 4 weeks
Months Offered: July through June*
*This elective is by arrangement only with the Medical Student Coordinator by calling Tish Askew at 912/350-8076. After signing up for this elective, drops must be cleared by the Medical Student Coordinator in Savannah.
One month (4 weeks) elective in the ambulatory medicine clinic designed for the student who may be interested in primary care. Special emphasis is placed on the investigation and proper management of the major medical problems encountered in the outpatient setting. This experience mainly employs general medicine clinics, as well as a variety of subspecialty medicine clinics designed to simulate a private practice setting. Arrangements may be made for rotation in a private general internist's office, depending on preceptor availability.

MED 5050. Inpatient Cardiology at Georgia Baptist (Special Elective)
Location: Georgia Baptist Health Care System, Atlanta,

GA
Enrollment: 1 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

This rotation is an acting internship and will concentrate on the inpatient rotation with the initial workup and management of cardiology patients from the emergency room as well as through consultation. The student will follow the patient through any inpatient testing including exercise stress testing, echocardiogram or cardiac catherterization. the rotation will include both intensive care as well as telemetry and ward patients. This rotation will require weekend rounding and every fourth night oncall responsibilities in conjunction with the rounding team. Participation in the Morning Report and medicine conferences throughout the week will be required. Internal Medicine Program Director: Guillermo Umpierrez, M.D.

MED 5051. Outpatient Cardiology at Georgia Baptistand Private Practice Office (Special Elective)

Location: Georgia Baptist Health Care System and Cardiac Disease Specialists (Private Practice) Atlanta, GA
Enrollment: 1 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

This elective will allow the senior student to participate in cardiology practice in the outpatient setting. The student will do a new patient workup each day for a variety of cardiovascular problems and follow those patients through their workup including stress testing, nuclear cardiology and echocardiogram. The student will get a working knowledge of these three outpatient procedures and their diagnostic capabilities. Outlying clinics outside of Atlanta may or may not be added depending on the student's interest. Internal Medicine Program Director: Guillermo Umpierrez, M.D.

MED 5052. Gastroenterology at Georgia Baptist (Special Elective)

Location: Georgia Baptist Health Care System, Atlanta, GA
Enrollment: 1 Minimum 2 Maximum
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

Students on this elective will rotate with the four Gastroenterology Attendings, caring for patients in the hospital, doing consults and observing Gastroentestinal procedures. The student will also have the opportunity to see patients in the office with the various attendings and review liver pathology slides with John Galambos, M.D. The student would be expected to attend all conferences and will be asked to give a conference discussion at the medical-surgical conference.
Gastroenterology attending at Georgia Baptist Health Care System: Leslie S. Leighton, M.D., Michael R. Galambos, M.D., John T. Galambos, M.D., F.A.C.G., Booker H. Dalton, Jr. M.D., Mark Sims, M.D. Internal Medicine Program Director: Guillermo Umpierrez, M.D.

MED 5053. Gastroenterology at Memorial Medical Center, Savannah, GA (Special Elective*)

Location: Savannah Center for Digestive and Liver Diseases, Memorial Medical Center, Inc
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

*This elective is by arrangement only with the Medical Student Coordinator by calling Tish Askew at 912/350-8076. After signing up for this elective, drops must be cleared by the Medical Student Coordinator in Savannah.

Students rotating through this elective will actively participate in both inoffice and inhospital consultation, and will be encouraged to observe gastrointestinal endoscopic procedure (upper GI endoscopy, flexible sigmoidoscopy, colonoscopy and ERCP). Students will participate in the biweekly gastroenterology clinic and will attend all medical education conferences, noon conferences, Friday Grand Rounds and Wednesday housestaff conference). In all cases, integration of basic gastrointestinal physiology with clinicopathologic findings will be stressed. Opportunities to make rounds at two other Savannah hospitals with the attending physicians will be available. Students will also have the opportunity to participate in clinical trials being performed by Drs. Carpenter, Murphy, and Rydzak. Preceptors are: Dr. Steven Carpenter, Dr. Mark Murphy, and Dr. Edward Rydzak.

MED 5055. Critical Care and Pulmonary Medicine (Special Elective)

Location: Augusta Regional Medical Center
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

The student will work with 3 critical care physicians at Augusta Regional Medical Center. These physicians provide seven days per week, 24-hour a day coverage for inpatients at the hospital. The student will be assigned to round on, and manage under supervision, between two or three critically ill patients, depending on the complexity and student abilities. The practice consists of patients admitted to the Burn Unit, admission of unassigned medical and critically ill patients from the emergency room, inpatient consultation to MICU and SICU, and management of critically ill patients accepted in transfer from outlying hospitals. All types of acute medical problems are seen in this practice environment. A pre- and post-test will be administered as learning tools, rationales for correct answers will be provided to the student. There is an extensive reference list and journal library as well as a textbook library.

The student will have one-on-one teaching with all three of the clinical facutly. Experiences in diagnostic

studies are also available for the interested student. (Drs. Scott A. Deppe, Friedman, and Epperly, 706/651-6199)

MED 5056. Epidemiology–Atlanta (Special Elective)*
Location: Centers for Disease Control and Prevention (CDC), Atlanta
Enrollment: Maximum number is variable
Prerequisites: MED 500
Duration: 1 to 2 months
Months Offered: September through June (applications must be submitted to the Epidemiology Program Office at CDC by May 30 of the student's third year)

This elective is designed to introduce the student to applied epidemiology, preventive medicine, and public health as practiced at CDC. Students have the opportunity to actively assist in epidemiologic investigations of infectious diseases and in studies of a wide variety of public health problems such as chronic, environmental, and occupational diseases, injuries, and reproductive health. Students work under the supervision of CDC epidemiologists and work on specific projects. Students are also exposed to day-to-day operations and a broad range of activities at CDC. Familiarity with computers and data analysis is helpful but not essential. Students are responsible for providing their own living and travel expenses.

*This elective is by arrangement only with Dr. Addiss at CDC 770/488-7760. After signing up for the electives, drops must be cleared by the student through Dr. Addiss.

MED 5057. Geriatric Medicine, Savannah, GA (Special Elective*)
Location: Department of Internal Medicine, Ali R. Rahimi, M.D., F.A.C.P., Chief of Geriatrics, Memorial Medical Center, Inc., Savannah, GA
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: Four weeks
Months Offered: July through June

*This elective is by arrangement only with the Medical Student Coordinator by calling Tish Askew at 912/350-8076. After signing up for this elective, drops must be cleared by the Medical Student Coordinator in Savannah.

Students will participate in daily discussion of all geriatric admissions and work rounds. The students will also participate in geriatric clinics to work up a variety of geriatric syndromes including falls, incontinence, dementia, syncope, failure to thrive, sensory impairment, and cardiovascular disease in the elderly. Students will be given reading assignments of geriatric core curriculum. Students will have opportunity to observe, and if interested, actively participate in urodynamics and tilt table procedures. Students will also participate in weekly "Geriatric Currents" and monthly Geriatric-Psych Case Conferences. Students will also attend all medical educaion programs including daily Noon Conferences, Friday Grand Rounds, and may also participate in medical morning report.

MED 5058. Advanced Physical Diagnosis
Location: MCG Hospital
Enrollment: Maximum 8
Prerequisites: MED 500
Duration: One Month
Months Offered: September and November

This elective is designed to further develop the student's physical diagnosis skills. Students will focus on different areas of the physical examination to enhance their skills. For example, the student will learn how to distinguish the different cardiac murmurs, to exam an injured joint, etc. This elective will also offer the opportunity to further develop patient-doctor communication skills. During this elective, the student will have the opportunity to work with actual patients, standardized patients, UMedic (an interactive computer program dealing with cardiovascular physical diagnosis), and with Harvey (a life-size model that actually mimics certain cardiovascular conditions such as mitral stenosis, etc.) (Dr. L. Lentz, ext.1-4078)

MED 5059. Clinical Cardiology
Location: The office of Augusta Heart Associates
Enrollment: Maximum 1
Prerequisites: MED 500
Duration: One Month
Months Offered: July through June

The student will be taught on a one-to-one basis the basics of the cardiovascular physical examination and cardiac physical diagnosis with correlation to the pathophysiologic disease states. He/she will see patients in a private office and hospital setting under the direct supervision of a cardiology attending physician. The student will complete a computer module of heart sounds and have weekly didactic sessions with an attending physician. During the last week of the rotation, the student will formally present and discuss a patient encountered during the month. (Drs. Bowman, Thornton, and Holman)
724-4400

MED 5060. Telemedicine Technology
Location: MCG, AI-1025
Enrollment: Maximum 4
Prerequisites: None
Duration: One Month
Months Offered: September through May

The basic technologies of medical instrumentation, communications, informatics, and interactive sound and videos are discussed. Students individually explore the technical issues of a telemedicine application utilizing traditional and on-line information sources as well as experimentation in the Telemedicine Center Learning Laboratory. (Dr. Max Stachura, EA-108, ext. 1-1311)

MED 5061. Outpatient Nutritional Therapy (Special Elective)
Location: CSRA Partners in Health Care
Enrollment: One student per month
Prerequisites: None
Duration: One Month

Months Offered: By Arrangement

The student will participate as a member of a team consisting of a physician, dietitian, nurse and educators. The student will perform histories and physical examinations, and be actively involved in treatment plans, follow-up care, and teaching. The majority of patients are obese; some have hyperlipidemia, eating disorders, diabetes or other nutritional concerns. Treatment of these nutritional problems is integrated with management of other medical problems and the patient's lifestyle. There will be opportunity for interested students to be involved with research study protocols. (Diane Smith, M.D., 1228 Augusta West Parkway, Augusta, GA 30901, phone 860-3001).

Neurology

NEU 5000. Basic Clerkship in Neurology (10-0-40-10)

Prerequisite: Successful completion of phase II.

Four-week clerkship introduces general neurological problems through direct supervised patient management. Stresses basic skills in history-taking and physical diagnosis of neurological patients. Emphasizes ability to assimilate historical information and physical findings to diagnose an existing neurological lesion. Covers recognizing and managing neurological lesion and neurological emergencies.

NEU 5001A, 5001B. Acting Internship in Adult Neurology (Special Electives)

Location: 5001A–MCG Hospital, 5001B–VA Medical Center
Enrollment: 2 Maximum per month at each hospital
Prerequisites: NEU 500
Duration: One Month
Months Offered: July through June

This is a patient care elective. The student will have primary care responsibility for a block of neurological inpatients. The student will participate in rounds and conferences and will assist with the diagnostic procedures involving his/her patients. The student will be expected to participate in the oncall rotation with other housestaff. (Contact Neurology office, 721-4581.)

NEU 5002A, 5002B. Consultation and Clinics in Adult Neurology (Special Electives)

Location: 5002A–MCG Hospital, 5002B–VA Medical Center
Enrollment: 2 Maximum per month at each hospital
Prerequisites: NEU 500
Duration: One Month
Months Offered: July through June

This elective is designed to provide an introduction into decision making in Neurology. The student will attend Adult Neurology Clinics and participate in the direct evaluation of patients. There is ample opportunity to examine and evaluate patients with a wide range of neurological problems. A close working relationship with the neurology attending faculty will allow maximal learning potential. (Contact Neurology office, 721-4581.)

NEU 5003. Computer Applications in Neurology (Special Elective)

Location: MCG Hospital
Enrollment: 1 Minimum 3 Maximum
Prerequisites: None
Duration: One to Three Months
Months Offered: July through June
Faculty Sponsor: Dr. Michael H. Rivner

This elective allows the student to develop an understanding of computer applications in Medicine and Neurology. The student will use the Neurology Department's computer system, which consists of 60 computers organized in a local area network using the Netware operating system. Such a system represents the forefront of computerized technology. Many projects are available for the student to work on, including the development of patient databases, artificial intelligence, and signal analysis. The student will work on a program under the direction of Dr. Michael Rivner. Programs will be written in C, Basic, Pascal or Fortran. Compilers are available in all of these languages. No prior experience in programming or engineering is necessary. However such experience is highly desirable. If the student does not have experience in programming, programming will be taught during this elective period, mainly by self study.

The following projects are currently active: (1) Neurology patient database; (2) Billing systems; (3) EMG signal analysis and spike detection; (5) Stroke patient database; (7) Decision analysis in Neurology and/or EMG; and (8) Generalized systems programming.

After completion of this elective, it is believed that the student will have a firm understanding of the role that computers play in medicine. Completion of this elective will allow the student to become familiar and confident about computer systems in medicine.

All students who desire to find out more about this elective are encouraged to contact Dr. Michael H. Rivner in the Department of Neurology (721-2681).

NEU 5004A, 5004B, 5004C. Clinical and Research Electives in Neurology (Special Electives)

Location: 5004A–MCG Hospital, 5004B–VA Medical Center, 5004C–Off Campus—Green Sheet
Enrollment: 1 Maximum Per preceptor
Prerequisites: NEU 500
Duration: One to Three Months
Months Offered: July through June

The following electives will allow the student an opportunity to concentrate on a specific area of Neurology. Clinical responsibility and/or research opportunities are available. In most instances, the specific program can be tailored to the interests and needs of the student. These electives must be arranged with the individual preceptor at least two months prior to the beginning of the rotation. On campus electives that are available include:

1. Animal Models in Research (Dr. Franklin Carl, 823-2254)
2. Behavioral Neurology (Dr. Meador, 721-2797)
3. Clinical Cerebrovascular Disease (Dr. Fenwick

Nichols and Dr. Robert Adams, 721-4670)
4. Clinical Neurophysiology: EEG, EP, Computerized EEG Analysis (Dr. Anthony Murro, 721-4512 and Dr. Yong Park, 721-3371)
5. Electromyography (Dr. Michael Rivner, 721-2681)
6. Electrophysiology of Cognition (Dr. Kim Meador, 721-2797)
7. Epilepsy (Dr. Don King, 721-3325)
8. Molecular Biochemistry, Spring Quarter, (Dr. Terry Sprinkle, 721-2029)
9. Muscle Biochemistry (Dr. James Carroll, 721-3371)
10. Neurochemistry (Dr. Franklin Carl, 823-2254)
11. Neuromuscular Diseases (Dr. Michael Rivner, 721-2681)
12. Ultrasound in the Evaluation of Cerebrovascular Disease (Dr. Fenwick Nichols, 721-4670)
13. Endothelial cell in strokebasic research (Dr. David Hess, 823-2212)
14. Movement Disorders (Dr. Kapil Sethi, 721-4581)

Obstetrics and Gynecology

OBG 5000. Basic Clerkship in Obstetrics and Gynecology (14-0-72-10)

Prerequisite: Successful completion of phase II.

Required four-week basic clerkship combines inpatient and outpatient experience in human reproduction and disorders of female reproductive system. About half of students rotate through MCG subspecialty services. Some students may draw assignment at (1) University Hospital in Augusta; (2) Memorial Medical Center in Savannah; (3) Georgia Baptist in Atlanta, for their clinical experience in obstetrics and gynecology.

OBG 5001. Obstetrics and Gynecology Hospital/ Medical School (Special Elective–Green Sheet)

Location: Off Campus Hospital or Medical School
Enrollment: Indefinite
Prerequisites: Satisfactory Completion of all Core
Duration: One to Two Months
Months Offered: July through June

This elective is offered by arrangement with various hospitals, or affiliated medical schools in the United States and overseas. The course will be designed to fit each student's particular need and may be either clinically or research oriented.

The student must obtain a letter of acceptance with the name of the supervisor and/or evaluator and his or her curriculum vitae showing OB/GYN training. Formal evaluation is required.

This elective is by arrangement only. Prior to accepting an off campus elective you must contact Dr. Keith Hansen, 1-3832 and Ms. Rita Barber, BAA-709, 1-2543.

OBG 5002. Gynecologic Oncology Elective (Special Elective)

Location: Cancer Center of Georgia at Georgia, Baptist Health Care System, Atlanta, GA
Enrollment: 1 Maximum
Prerequisites: Satisfactory Completion of all Core
Duration: One Month
Months Offered: July through June

Students will be assigned to the Gynecologic Oncology Service at Georgia Baptist Medical Center and will serve as an extern on that service. This will involve participation in clinical care ambulatory care settings. Students will be supervised by the Director of Gyn/Oncology and expected to attend all clinical conferences as well as observe and participate in office procedures such as videocolposcopy and laser surgery as requested by the Director.

Goals:
1. Understanding the pathology, clinical presentation, natural history, evaluation and treatment of gynecologic malignancies.
2. Understanding of major procedures used to screen for female pelvic malignancies.
3. Review of the basic principles of care for critically ill patients with multiple medical problems as well as neoplastic diseases.
4. Understanding the role of the gynecologic oncologist in private as well as academic settings.

R. Allen Lawhead, M.D. is the Director of Gynecologic Oncology at Georgia Baptist Medical Center. All students interested in this elective should contact Robin Sockness, Residency Program Coordinator, 303 Parkway Drive, NE, Box 423, Atlanta, Georgia 30312 to obtain an application form. (404/265-4614)

This elective is by arrangement only.

You must contact Rita Barber, BAA 709, Ext 1-2543 and Robin Sockness, 404/265-4614

OBG 5003. Obstetrics and Gynecology University Hospital (Special Elective *)

Location: University Hospital, Augusta, GA
Enrollment: 1 Minimum 2 Maximum
Prerequisites: Satisfactory Completion of all Core
Duration: One Month
Months Offered: July through October–Reserved for students choosing OBG as Advisor.

This elective is offered at the University Hospital where the student works under the supervision of the Medical College of Georgia residents and clinical faculty on the ward service. The student is given responsibility for the evaluation and care of patients consistent with demonstrated abilities. Formal evaluation is required.

* You must contact Rita Barber, BAA709, Ext.1-2543).

OBG 5004. Research/Laboratory Elective at MCG (Special Elective)

Location: MCG Hospital
Enrollment: 1 Maximum
Prerequisites: Satisfactory Completion of all Core
Duration: One to Three Months
Months Offered: July through June

The student will have the opportunity to design original studies or pursue ongoing research projects in either the biochemical or biophysical assessment laboratories. This elective is flexible and can be tailored to

the specific interests of the student. Current projects include intrauterine fetal breathing observation, analysis of fetal heart rate patterns, evaluation of fetal lung maturation in various maternal/fetal conditions. This elective is by arrangement only. You must contact Dr. L. Devoe, Ext. 1 3556 and Rita Barber, BAA 709, Ext. 12543 .

OBG 5005. Maternal Fetal Medicine Elective at MCG (Special Elective)

Location: MCG Hospital
Enrollment: 1 Maximum
Prerequisites: Satisfactory Completion of all Core
Duration: One Month
Months Offered: July through October–Reserved for students choosing OBG as Advisor.

This is a clinically oriented block of time during which the student will participate in the antepartum, delivery, and postpartum care of high risk obstetric patients. Responsibilities are those of a subintern working closely with the OB house-staff. The student will also present cases at the clinical conferences dealing with high risk pregnancies, and be responsible for assigned reading material. This elective is by arrangement only. You must contact Dr. L. Devoe, Ext. 1-3556 and Rita Barber, BAA 709, Ext. 1-2543 .

OBG 5006. Reproductive Endocrinology and Genetics Elective at MCG (Special Elective)

Location: MCG Hospital
Enrollment: 1 Minimum 1 Maximum
Prerequisites: Satisfactory Completion of all Core
Duration: One Month
Months Offered: August through October–Reserved for students choosing OBG as Advisor.

The student will participate in the Reproductive Endocrinology and Genetics Clinic at the Medical College of Georgia. One entire day per week will be devoted to the prenatal diagnosis and preconceptional genetic counseling. Two days at the Medical College of Georgia each week will be devoted to infertility surgery. Two days will be devoted to the management of patients, single or couples, with reproductive endocrine problems. The general diagnostic areas which will be covered are as follows:

1. Evaluation, diagnosis and management of couples with infertility.
2. Diagnosis and management of menstrual dysfunction
3. Diagnosis and management of androgen over production.
4. A knowledge of gross and microscopic pathology relating to Reproductive Endocrinology.
5. Contraception and family planning.
6. Observation of reconstructive and reparative surgery involving congenital and acquired defects of the female genital tract.
7. Gross and microscopic pathology relating to reproductive endocrinology.
8. Basic knowledge of the pharmacology of hormones.
9. Preconceptional and genetic counseling and prenatal diagnosis.
10. In Vitro fertilization.

This elective is by Arrangement Only with Dr. Keith Hansen, Ext. 1-3832 and Rita Barber, BAA 709, Ext. 1-2543.

OBG 5007. Elective in Gynecologic Oncology (Special Elective)

Location: MCG
Enrollment: 1 Maximum
Prerequisites: Satisfactory Completion of all Core
Duration: One Month
Months Offered: All Year except December. July through October–Reserved for Students choosing OBG as Advisor.

The student will participate in all aspects of gynecologic oncology during this rotation to include exposure to radical gynecologic surgery, the use of specialized instruments in female genital cancer, such as the LASER, LLETZ and the administration of chemotherapy.

Clinic time will consist of examining patients, under supervision, who are pretreatment gynecologic oncology patients. He/she will observe the use of colposcopy, cryotherapy, of outpatient cystoscopy and special biopsy procedures involving the female genital tract cancers and their precursors. Supervision will be under the direction of faculty Drs. Macfee and Mensah 721-3992. This elective is by arrangement only. You must contact Dr. Michael Macfee and Rita Barber, BAA 709, Ext. 1-2543.

An opportunity to participate in clinical research will be provided.

OBG 5008. Elective in Benign Gynecology (Special Elective)

Location: MCG
Enrollment: 1 Maximum
Prerequisites: Satisfactory Completion of all Core
Duration: One Month
Months Offered: All year, except December. July through October–Reserved for Students choosing OBG as Advisor.

The student will participate in the management of gynecology patients in an expanded manner. The student's experience will include performance of diagnostic procedures such as vulvar and endometrial biopsies, and exposure to urodynamics and the care of the patient with incontinence, evaluation of patients with pelvic pain and other common gynecological problems.

On the ward the student will be assigned selective patients and will be responsible for preoperative and postoperative patient management. These patients will be followed to the operating room and will include both vaginal and abdominal gynecologic procedures.

An opportunity to participate in clinical research will be provided and is strongly encouraged.

(Dr. Roger Smith, Ext. 1-2542) This elective is by arrangement only. You must contact Dr. R. Smith and Rita Barber, BAA 709, Ext. 1-2543.

OBG 5009. Obstetrics and Gynecology at Georgia Baptist Medical Center, Atlanta, GA (Special Elective)

Location: Georgia Baptist Medical Center, Atlanta, Georgia
Enrollment: 1 Maximum
Prerequisites: Satisfactory Completion of all Core
Duration: One Month
Months Offered: July through June

The student is assigned responsibility for the evaluation and care of obstetric and gynecologic patients under the supervision of the resident physicians and staff physicians.

Steven L. Saltzman, M.D. is the Director of the OB/GYN Residency Program Georgia Baptist Medical Center. All students interested in this elective should contact Robin Sockness, Residency Program Coordinator for the Department of Obstetrics and Gynecology, Georgia Baptist Medical Center, 303 Parkway Drive, NE, Box 423, Atlanta, GA 30312 to obtain an application form. (404/265-4614)

OBG 5010. High Risk OB Antepartum Assessment (Special Elective)

Location: Georgia Baptist Medical Center, Maternal Fetal Diagnostic Center, Atlanta, Georgia,
Enrollment: 1 Maximum
Prerequisites: Satisfactory Completion of all Core
Duration: One Month
Months Offered: July through June

Student will have the responsibility to participate in the evaluation, management and treatment of high risk obstetrical patients, in both outpatient and inpatient settings. A strong emphasis is placed on prenatal diagnosis. This includes genetic testing, biochemical evaluations, ultrasonography and invasive fetal intervention.

The Director of Maternal and Fetal Medicine at Georgia Baptist Medical Center is Phillip Potter, M.D. All students interested in this elective should contact Robin Sockness, Residency Program Coordinator for the Department of Obstetrics and Gynecology, Georgia Baptist Medical Center, 303 Parkway Drive, NE, Box 423, Atlanta, GA 30312, to obtain an application form. This elective is by arrangement only. You must contact Rita Barber, BAA 709, Ext. 1-2543 and Robin Sockness, 404/265-4614.

Ophthalmology

OPH 5210. Ophthalmology (10-0-0-1)

9 one-hour lectures plus 1 hour examination introducing basic ophthalmic disease processes and their management.

OPH 5001. Ophthalmology Clerkship

Location: Dept. of Ophthalmology, MCG
Enrollment: 1 Minimum 4 Maximum
Prerequisites: OPH 5210
Duration: One Month
Months Offered: July through June

The student participates with the residents and faculty in their daily clinical departmental activities. This includes seeing and evaluating patients with the residents and faculty, participation in work rounds, conferences and lectures and observation of some surgical procedures. Contact Edwina Terrell at ext. 1153 for any questions.

OPH 5002. Ophthalmology Research Elective (Special Elective)

Location: Dept. of Ophthalmology, MCG
Enrollment: 1 Minimum 2 Maximum
Prerequisites: OPH 5210
Duration: One to Two Months
Months Offered: July through June

All applicants must be interviewed by Dr. D. Hull for clinical research projects and then by Dr. K. Green for basic science (laboratory) research projects, and then by the doctor with whom they would be doing the research.

An area of mutual interest to the student and faculty supervisor will be selected and the student will outline his research project with literature references and carry it out under supervision. A written report on the project is required at the end of the elective period.

a. Ophthalmic Physiology and/or Molecular Biology: Drs. K. Green and G. Liou
b. Clinical Research: Drs. S. Brooks, D. Marcus, D. Hull, J. Riffle, R. Rubin and T. Costarides

OPH 5003. Ophthalmology Off Campus Experience (Special Elective–Green Sheet)

Location: Must be arranged and approved in advance with appropriate support documents (see below) provided at time of registration.
Enrollment: 1 Minimum 6 Maximum
Prerequisites: Phase II Ophthalmology
Duration: One to Two Months
Months Offered: July through June

Special arrangements can be made for elective periods of one or two months in a Department of Ophthalmology at another medical school or one that is affiliated with a medical school (Canada or USA), to study some phase of ophthalmology such as ophthalmic pathology, neuroophthalmology etc. Written approval must be obtained in advance from both the MCG Department of Ophthalmology and the Department where the elective is to be taken. A description of the off campus elective, including the names(s) of the supervising faculty member(s), must be submitted to the MCG Department of Ophthalmology before approval to take the course for credit can be considered. A resume of work done must be turned in to the MCG Department of Ophthalmology by the student within two (2) weeks of completion of the rotation. In addition, a letter of evaluation with specific comments regarding the student's performance and a brief description of the work completed must be received from the Department Chairman or the supervising faculty member in the Department where the off campus elective is taken. Credit for the course will not be given until all of the above have been satisfactorily completed.

Pathology

PTH 5240. Pathology (6-0-0-12)
Prerequisite: Completion of phase I.
Introduction to human diseases through small-group study of individual cases with guidance by the teaching faculty. Emphasis is understanding the pathogenesis of structural changes at the gross, microscopic and ultrastructural level and correlation with the resulting alterations of laboratory and clinical data. Approximately 80 cases with gross material, selected microscopic slides, clinical laboratory data and other data are divided into four categories: hemodynamic, neoplastic, inflammatory and systemic/degenerative. Groups of 18 students meet with an instructor in a laboratory module to learn by analysis and presentation of the case material. Lectures introduce major diseases; they provide orientation and overview rather than factual material more readily available elsewhere. Seminars are used for student groups of 45 to discuss topics of particular importance. Visits to diagnostic laboratories are arranged to promote optimal laboratory use as the students progress. Participation in a current autopsy is expected. Computer-assisted instruction is an assigned alternate method within each category.

PTH 5001. Current Autopsy Case Studies (Special Elective–Green Sheet)
Location: MCG Hospital and Clinics, Anatomic Pathology Laboratory
Enrollment: 1 Minimum, 5 Maximum
Prerequisites: Phase II
Duration: 1–3 Months
Months Offered: Throughout the year
The program has been designed for the study of human disease by thorough autopsy investigation enabling the interested student to pursue his studies at a deeper level of experience. Students have the same responsibilities as the resident staff with regard to their study and presentation of autopsy cases. (By arrangement with Dr. Falls)

PTH 5002. University Hospital Pathology Laboratory (Special Elective–Green Sheet)
Location: University Hospital, Pathology Laboratory
Enrollment: 1 Minimum 2 Maximum
Prerequisites: Phase II
Duration: 1 Month
Months Offered: Throughout the year
Electives will be offered in most phases of practice of pathology including surgical pathology, autopsies, hematology, blood banking, chemistry, bacteriology, immunopathology, cytology or radioisotopes. Special work will be assigned to the student for background purposes. Can be offered singularly or in combination. (By arrangement with Dr. Sharma)

PTH 5003. Surgical Pathology (Special Elective–Green Sheet)
Location: MCG Hospital and Clinics, Anatomic Pathology Laboratory
Enrollment: 1 Minimum 2 Maximum
Prerequisites: Phase II
Duration: 1–2 months
Months Offered: Throughout the year
To participate in all activities of Surgical Pathology. Students will function as supervised residents. They will participate in the examination of tissues and the rendering of diagnoses to clinicians. Students will be part of modern surgical pathology. Limited responsibility under supervision will be commensurate with ability. (By arrangement with Dr. Rao)

PTH 5004. Teaching Elective in Pathology (Special Elective–Green Sheet)
Location: MCG Hospital and Clinics
Enrollment: 1 Minimum, No Maximum
Prerequisites: Pathology 550
Duration: 1 to 4 Months
Months Offered: Throughout the year
The student will identify cases with teaching value from recent anatomic and clinical pathology material. Each case will be thoroughly studied to prepare it for use in case teaching using pots, mounts, and/or annotated images for AV/CAI. The program may be arranged to accommodate specific interests that are also consonant with teaching needs. (By arrangement with Dr. Steele)

PTH 5005. Transfusion Medicine (Special Elective–Green Sheet)
Location: MCG H&C, Blood Bank Laboratory
Enrollment: 1 Minimum 1 Maximum
Prerequisites: Phase II
Duration: 1 Month
Months Offered: October
Transfusion medicine/hemotherapy is a rapidly expanding discipline in the clinical application of transfusion and apheresis therapy. All students will receive basic instruction in immunohematology, blood component therapy, apheresis techniques, autologous and homologous donation methods, and participate in consultations.
Specific activities can be tailored for special areas of interest. Informal didactic sessions will supplement service rotations and required reading assignments. Rotation at a community blood center for orientation purposes and other special projects can be arranged. (By arrangement with Dr. Cook)

PTH 5006. Special Techniques in Diagnostic Pathology (Special Elective–Green Sheet)
Location: Barton Immunopathology Laboratory, Murphey Building
Enrollment: 1 Minimum, 2 Maximum
Prerequisites: Phase II
Duration: 1–3 Months
Months Offered: September through May
This elective is designed to give the student a basic understanding of immunohistochemical, in situ nucleic acid hybridization, and molecular biologic techniques used as second level tests to resolve differential diagnoses in anatomic pathology. Current and potential diagnostic/research applications of these special tech-

niques will be covered, and informal discussions will supplement practical, hands-on laboratory experience. (By arrangement with Dr. F. Chandler)

PTH 5007. Cancer Cytogenetics
(Special Elective–Green Sheet)
Location: Cancer Cytogenetics Laboratory, Murphey Building
Enrollment: 1 Minimum 2 Maximum
Prerequisites: Phase II
Duration: 1 to 3 Months
Months Offered: Throughout the year

Cytogenetics is an important part of pathology. It is well recognized that cytogenetic analysis is an independent diagnostic and prognostic indicator in human cancer, particularly leukemia and a few solid tumors. This elective will acquaint the student with cancer cytogenetics and its clinical application in the management of the cancer patient. The student will be exposed to modern cytogenetic techniques, including cell culturing, harvesting procedures for obtaining chromosome slides, performing various chromosome banding techniques, microscopic analysis to identify normal and abnormal chromosomes, photography and computer-assisted chromosome karyotyping. (By arrangement with Dr. Satya Prakash)

PTH 5008. Pathobiology of Atherosclerosis
(Special Elective–Green Sheet)
Location: MCGH&C, Atherosclerosis Research Laboratories, Murphey Building
Enrollment: 1 Maximum
Prerequisites: Phase II
Duration: 1 to 3 Months
Months Offered: Throughout the year

This elective offers an introduction into the study of the pathobiology of atherosclerosis and the current state of knowledge on this important disease process. State-of-the-art technologies in tissue culture, molecular biology, immunohistochemistry, and image analysis used to examine mechanisms involved in the initiation and progression of atherosclerosis will be introduced and hands-on experience will be emphasized. (By arrangement with Dr. Gerrity)

PTH 5009. General Clinical Pathology Laboratory
(Special Elective–Green Sheet)
Location: MCGH and Clinics, Clinical Pathology Laboratory
Enrollment: 1 Minimum 4 Maximum
Prerequisites: Phase II
Duration: 1–4 Months
Months Offered: September through June

This elective is based on the practical application of clinical laboratory methods and evaluation of results. This objective will be pursued through patient rounds, interpretation of laboratory data, participation in patient treatment, particularly the use of blood and blood components, the development of tests and their evaluation as to future clinical utilization. An opportunity to learn the techniques of Hematology, Microbiology, Clinical Chemistry, Microscopy, Immunohematology and Blood Banking will be available. This elective includes hands-on instruction and practice in obtaining blood specimens for laboratory examination. (Arrangement with Dr. Baisden)

PTH 5011. Basic Neuropathology
(Special Elective–Green Sheet)
Location: MCG Hospital and Clinics, Murphey Building, Anatomic Path Lab
Enrollment: 1 Minimum 2 Maximum
Prerequisites: Phase II
Duration: 1–3 Months
Months Offered: September through May

This is a basic neuropathology course designed only for a student who intends to choose pathology, neurosurgery, neurology, or other neurological science related fields as a subspecialty in his medical career. (By arrangement with Dr. Yaghmai)

PTH 5012. Introductory Electron Microscopy
(Special Elective–Green Sheet)
Location: MCG Hospital and Clinics, Murphey Building, Anatomic Pathology Laboratory
Enrollment: 1 Minimum 4 Maximum
Prerequisites: Phase II
Duration: 1–3 Months
Months Offered: September through May

This elective is designed to provide the student with a broad base of knowledge on the principles and use of electron microscopy in biomedical research and diagnosis. Instruction will be given by the director of electron microscopy and the technical staff. Background and theoretical considerations will be discussed, but hands-on aspects and training will be emphasized. At completion of this elective, the student will be able to process tissue, prepare and stain sections, and use an electron microscope. (By arrangement with Dr. Gerrity)

PTH 5013. Renal Biopsies
(Special Elective–Green Sheet)
Location: MCG Hospital and Clinics, Anatomic Pathology Laboratory
Enrollment: 1 Minimum 2 Maximum
Prerequisites: Phase II
Duration: 2 Months
Months Offered: June, July and August

The department has a vast file of renal biopsies and a large number of current renal biopsies. The elective will provide an excellent opportunity to review a wide variety of renal biopsies, to become familiar with the methods of study of renal diseases and to interact with nephrologists in the study and analysis of renal diseases and renal transplants. The student will be expected to present cases at the monthly renal biopsy conferences. (By arrangement with Dr. Rao)

PTH 5014. Off Campus Special Elective in Anatomic and Clinical Pathology
(Special Elective–Green Sheet)
Location: Off Campus Pathology Laboratories
Enrollment: Open

Prerequisites: Phase II
Duration: 4 weeks or longer
Months Offered: Throughout the year

There will be opportunity to work in selected areas of Anatomic and/or Clinical Pathology, including such fields as Surgical Pathology, Autopsy, Hematology, Blood Banking, and Microbiology in specified programs arranged with an offering pathologist. Students will have the opportunity to participate in intra- and inter-departmental conferences. (By arrangement with Dr. Steele)

PTH 5015. Coagulation and Hemostasis (Special Elective–Green Sheet)

Location: MCG Hospital and Clinics, Central Hemostasis Clinical Pathology Laboratory
Enrollment: 1 Minimum 3 Maximum
Prerequisites: Phase II
Duration: One Month
Months Offered: Throughout the year

The student will learn the workings of a coagulation and hemostasis laboratory. Emphasis will be on basic coagulation and hemostasis and its relevance to clinical medicine. The course will employ live patients and autopsy materials. The student will be introduced to problems in clinical thrombosis and hemostasis. The student should have basic knowledge of biochemistry, physiology, and pathology. Complex clinical problems will be evaluated; therefore, fourth year students will receive preference. (By arrangement with Dr. Krauss)

PTH 5016. Anatomic Pathology (Special Elective–Green Sheet)

Location: Laboratory Service, VA Medical Ct.
Enrollment: 1 minimum 2 maximum
Prerequisites: Phase II
Duration: Any Consecutive Three Months
Months Offered: Throughout the year

After the elective, the student will be able to perform a number of basic anatomic pathology techniques and apply clinical judgment commensurate with his medical knowledge. The student will be able to distinguish normal from pathologic tissues in their most common gross and microscopic appearances and will begin to be able to interpret the clinical significance of these appearances for individual patients. Specifically:

(1) The student will be able to perform an autopsy and find basic clinical pathologic correlations.
(2) The student will be able to approach a variety of surgical pathology and cytology specimens in the role of a pathologist consultant, and:
    (a) Participate in their processing and examination
    (b) Apply clinical interpretation and medical judgment in such examination.

The faculty/student contact is essentially that of a preceptorship in which practicing pathologists take undergraduate medical student as resident students and give them personal training in the practice of Pathology. The pathologist takes the student and gives him personal training in his specialty. There are three full time pathologists in Laboratory Service with whom the student will have the opportunity to work. (By arrangement with Dr. Freant)

PTH 5017. Gynecologic Cytopathology (Special Elective–Green Sheet)

Location: MCG Hospital and Clinics, Murphey Building, Anatomic Pathology Lab
Enrollment: 1 Minimum 1 Maximum
Prerequisites: Phase II
Duration: One Month
Months Offered: Throughout the year

The student will gain an understanding of the Pap smear as a population screening method and will perform Pap smears on individual patients and follow the smears through the laboratory and microscope sign-out. (Arrangement Dr. Crosby)

PTH 5018. Gastrointestinal Pathology (Special Elective–Green Sheet)

Location: Laboratory Service, VA Med Ct.
Enrollment: 1 Maximum
Prerequisites: Phase II
Duration: 1 Month
Months Offered: January through May

This elective is designed to give the Phase III student a basic familiarity with needle biopsies of the liver and endoscopic biopsies of the alimentary tract. Microanatomic findings underlie the clinical presentation and course of patients with alimentary tract disease and are interpreted in light of the entire clinical background. The specific program will be arranged with the individual student but is expected to include histopathologic study of current cases amplified by file cases and attendance at pertinent conferences. (By arrangement with Dr. Lee)

PTH 5019. Clinical Microbiology (Special Elective–Green Sheet)

Location: MCG Hospital and Clinics, Clinical Pathology Microbiology Laboratory, BAS-196
Enrollment: 1 Minimum 1 Maximum
Prerequisites: A Medical Microbiology Course
Duration: 1–2 Months
Months Offered: Throughout the year

An area of mutual interest will be explored through research, literature review, hands-on evaluation, discussions with other laboratories, etc. A written document of the findings will be produced for internal use and ideally for presentation and publication. (By arrangement with Dr. Steele)

PTH 5021. Urologic Pathology (Special Elective–Green Sheet)

Location: MCG Hospital and Clinics, Murphey Building, Anatomic Pathology laboratory
Enrollment: 1 Minimum 1 Maximum
Prerequisites: Phase II
Duration: One Month
Months Offered: Year round, except August and December

This elective is designed for students who are interested in the pathology of the lower urinary tract and male genital system. Gross and microscopic pathology and clinicopathologic correlations will be emphasized through study sets, slide collections, gross photographs, and biweekly Urology Pathology Conferences. Personal tutorials at the doubleheaded

microscope will be a significant part of the rotation. This rotation will be especially helpful for those planning or considering careers in Pathology or Urology. (By arrangement with Dr. Allsbrook).

PTH 5022. Dermatopathology (Special Elective–Green Sheet)
Location: MCG Hospital and Clinics, Anatomic Pathology Laboratory
Enrollment: 1 Minimum 3 Maximum
Prerequisites: Phase II
Duration: 1–6 Months
Months Offered: Throughout the year

This elective is designed to familiarize medical students with the most common skin diseases and how they are viewed through a conventional microscope. Clinicopathological correlation will be emphasized and the participants will be encouraged to view and do a followup of particular patients. The student will attend daily signouts, conferences related to dermatopathology and review selected cases from the teaching collections. Depending on time availability, the student may be asked to design their own projects or participate in ongoing projects. (By arrangement with Dr. Sangueza)

PTH 5023. Basic Cardiovascular Pathology (Special Elective–Green Sheet)
Location: Pathology and Laboratory Medicine Service, VAMC
Enrollment: 1 Minimum 3 Maximum
Prerequisites: Phase II
Duration: 1–3 Months
Months Offered: February through August

This basic cardiovascular pathology elective is designed for students who plan to choose pathology (especially anatomic and/or cardiovascular pathology), cardiology or cardiovascular surgery as career track subspecialties. Practical correlations between invasive and noninvasive diagnostic techniques commonly used in clinical cardiology and using the gross and histomorphologic finding of current surgical pathology cases (from the VAMC and the MCGH&C) and autopsies together with current cardiovascular surgical techniques applicable to these cases, will be stressed. Each student will be also encouraged to formulate a project and begin investigations, which could lead to a publication. (By arrangement with Dr. Freant)

Pediatrics

PED 5000. Basic Clerkship in Pediatrics (27-0-40-15)
Prerequisite: Successful completion of phase II.

Six-week pediatric clerkship provides basic education in child health. Covers recognition of normal developmental patterns and impact of age on the expression of history-taking, physical assessment and laboratory interpretation within the various age groups that comprise pediatric practice. Lecture conference series accompanies clinical rotations (nursery, ward and clinics) to teach students how to approach common pediatric conditions including health maintenance. The clerkship is offered in Savannah and Augusta.

PED 5001*. Substitute Neonatal Intern (Special Elective)
Location: MCG Hospital and Clinics
Enrollment: 2 Maximum
Prerequisites: PED 500
Duration: One Month
Months Offered: July through June

The student will serve in the same capacity as a first year house officer being directly responsible for patients admitted to the Neonatal Nurseries. The student will be supervised by the senior NICU resident, the neonatal fellow, and the NICU attending. Evaluation and management of high risk infants will be emphasized and special techniques and procedures used in the care of the sick newborn will be employed. Since the number of persons assigned to the NICU at any time is limited, only two students per rotation will be accepted without the permission of Dr. Bhatia. In addition, once a student is accepted for this rotation, they will not be allowed to change their schedule without permission of Dr. Bhatia. (Drs. Bhatia, Boedy, Bunyapen, Brudno and Carter)

PED 5002. Off Campus Special Elective (Special Elective–Green Sheet)
Location: Approved Hospitals or Preceptor's Office
Enrollment: 1 Minimum No Maximum
Prerequisites: PED 500
Duration: One or Two Months
Months Offered: July through June

This special elective is offered to provide the student with experience in pediatrics in an off campus setting. It can be served either in a hospital or in a preceptor's office by prior arrangement with them and the department. Selection of a setting can be best accomplished through counsel with your advisor. (Dr. White)

PED 5003. Pediatric Clinical Assistantship at Gracewood (Special Elective)
Location: Gracewood State School and Hospital.
Enrollment: 1 Minimum 3 Maximum
Prerequisites: PED 500
Duration: One or Two Months
Months Offered: July through June
This clinical assistantship provides inpatient care, conferences and lectures all related to the multidisciplinary problems of the mentally retarded. This clinical assistantship includes holiday, weekend and night calls during the scholastic year. Stipends are available. To sign up for this elective and for any further information regarding elective, call Dr. Maria Black, 706/790-2131.

PED 5004. Off Campus Preceptorship (Special Elective–Green Sheet)
Location: Approved hospital, clinic or office
Enrollment: No Maximum
Prerequisites: Phase II
Duration: One or Two Months

Months Offered: July through June

Clinical experience in child health in an off campus setting approved by Dr. White, Ext. 3781.

PED 5005. Pediatric Cardiology
(Special Elective)

Location: MCG Hospital and Clinics
Enrollment: 3 Maximum
Prerequisites: PED 500
Duration: One Month
Months Offered: July through June

This course offers experience in the study of congenital and acquired heart disease with emphasis on the clinical manifestations and findings, and interpretation of diagnostic tests. Correlation of the anatomic malformation with the physiologic alterations are emphasized as well as the natural history and prognosis. A series of tutorial sessions and a course of ECG reading will be provided as well as the opportunity to attend teaching sessions within the section. The pediatric cardiology ambulatory service is the site of each days activity. Inpatient chief's rounds are made weekly. (Dr. Strong)

PED 5006. Allergy and Clinical Immunology

Location: MCG Hospital and Clinics
Enrollment: 1 Minimum 3 Maximum
Prerequisites: None
Duration: One or Two Months
Months Offered: July through June

Students will evaluate patients of all ages presenting with a variety of disorders ranging from common respiratory and cutaneous allergies to uncommon immunologic disorders. Students will gain experience with allergen skin testing, pulmonary function tests and microscopic examinations of sputum and nasal secretions. Two conferences and one lecture are presented each week. When planned well in advance, students may initiate a project or participate in ongoing research elective. (Drs. Dolen, Meyer, Ownby, Stafford and Wray, Chief)

PED 5007 . Pediatric Research
(Special Elective–Green Sheet)

Location: MCG Hospital
Enrollment: 2 Maximum
Prerequisites: None
Duration: One or Two Months
Months Offered: July through June

This elective consists of research experience in selected areas of pediatrics through special arrangement with the pediatric faculty. For example, if a student desires to have an indepth experience around a procedural technique or a specific investigative methodology, he/she may arrange this with a member of the faculty. (Dr. White)

PED 5009A*. Substitute Pediatric Intern
PED 5009B*. (Special Elective)

Location: 5009A–MCG Hospital
Enrollment: 5 Maximum
Location: 5009B–University Hospital
Enrollment: 2 Maximum
Prerequisites: PED 500
Duration: One Month
Months Offered: July through June

The Pediatric substitute intern will serve as an active member (acting intern) of the Pediatric Housestaff under the supervision of the Pediatric Resident and a Pediatric Faculty member. The student will have the opportunity for progressive experience in inpatient care. In addition the University Hospital rotation includes outpatient experience. Specify whether you are requesting PED 513A MCG or PED 513B University Hospital. (Dr. White)

PED 5011. Pediatric Gastroenterology
(Special Elective)

Location: MCG Hospital and Clinics
Enrollment: 1 Maximum
Prerequisites: PED 500
Duration: One Month
Months Offered: July through June

This special elective provides the student an opportunity to participate in the diagnosis and management of gastrointestinal and hepatic disease in children and adolescents (acute and chronic). Patients are seen in clinic, on the inpatient wards and through the operating rooms and endoscopy suite. Topics include acute and chronic diarrhea, recurrent abdominal pain, inflammatory bowel disease, hepatitis (acute and chronic), persistent vomiting, hyperbilirubinemia, gastrointestinal bleeding, constipation, enteral and parenteral nutrition. A directed reading list will be provided to supplement "hands-on" experience. (Dr. Clark)

PED 5012A. Pediatric Elective at Memorial Children's Hospital at Memorial Medical Center
5012B.*
5012C. (Special Elective)

Location: Memorial Medical Center Inc., Savannah, GA
Enrollment: 1 Maximum per area
Prerequisites: PED 500
Duration: One to Two Month

This elective will provide the student with experiences in (A) Neurology, (B*) General Pediatrics, (C) Subspecialty Electives: Adolescent Medicine, Gastroenterology, Hematology/Oncology, Child Abuse and Protective Services. Subspecialty Electives may be taken individually or in paired combinations, with flexibility to meet the student's individual clinical pursuits. (Outpatient or inpatient experience can receive major emphasis). Specify area(s) you are requesting. *Please note that PED 518B qualifies as a Pediatric Subinternship when taken as an inpatient experience. Arrangements should be made by contacting the MMC Medical Student Coordinator, Ms. Tish Andrew at 912/350–8076.

PED 5013. Pediatric Infectious Disease

Location: MCG Hospital, University Hospital
Enrollment: 1 Maximum
Prerequisites: PED 500

Duration: One Month
Months Offered: July through June

The Objectives of this rotation include:

1. To provide a one month rotation on the Pediatric Infectious Disease Service in order for the student to gain greater experience in the diagnosis and management of infectious diseases of infants and children.
2. To learn the culture and specimen collection technique and identification of common pathogens that will be encountered in an office practice.
3. To research and present one major topic in pediatric infectious diseases or assist in preparation of a paper for publication on a pediatric infectious disease topic during this rotation. (Drs. Cox, Foshee or White)

PED 5014*. Intermediate and Well Baby Nursery Substitute Intern (Special Elective)
Location: MCG Hospital and Clinics Newborn Nursery (7W) Intermediate Nursery (6)
Enrollment: 2
Prerequisites: PED 500
Duration: One Month
Months Offered: July through June

Elective consists of two two-week parts, one in the 7W Newborn Nursery and one in the Intermediate Nursery in the NICU. Student will act in the same capacity as a first year house officer. Four in-house call nights are required, as chosen by the student.

Newborn Nursery (2 weeks)

Student will be responsible for admit and discharge examinations, attendance at deliveries, and management of well infants and those with minor problems under the supervision of a pediatric resident and general pediatric faculty member. (Drs. Heery, Brumund, et. al.)

Intermediate Nursery (2 weeks)

Student will be responsible for daily care of sick infants not requiring care in the Newborn Intensive Care Unit. Student will be under supervision of a pediatric resident and a staff neonatologist. (Drs. Boedy, Bunyapen, et. al.)

PED 5015. Pediatric Oncology Laboratory Research (Special Elective)
Location: Pediatric Oncology Research Lab
Enrollment: 1 Maximum
Prerequisites: None
Duration: Minimum 2 months
Months Offered: July through June (except December)

The student will participate in basic science research with a clinical focus. The student will work under the direct supervision of Dr. David Munn in the Pediatric Oncology Research laboratory. Various projects in the area of tumor immunology and macrophage cytotoxicity are available and can be tailored to the student's interests. No prior research experience is required, but the student will be expected to devote a significant amount of time and effort, in order to accomplish a meaningful project in the time available. Students should contact Dr. Munn, Ext. 7141, prior to requesting this elective.

PED 5016. University Hospital Pediatric Emergency Room (Special Elective)
Location: University Hospital Emergency Room
Enrollment: 2 Maximum
Prerequisites: PED 500
Duration: Month
Months Offered: July through June

This elective offers the student exposure to a variety of presentations and problems in Pediatric Acute Care; medical illnesses, trauma, minor surgical procedures, as well as major emergencies. There will be an opportunity to assume progressive responsibility for patient care as an extern under the supervision and guidance of Emergency Room pediatricians. Emphasis is placed on experiential learning and you will follow your patients' progress in this unique Emergency Room setting. You will be required to work every other weekend. Special requests regarding your work schedule should be made no less than 4 weeks in advance by contacting Dr. Eckert. (Drs. Eckert, Shaffner, Seward, and Benton).

PED 5017. Pediatric Hematology/Oncology (Special Elective)
Location: MCG Hospital and Clinics
Enrollment: 1 Maximum
Prerequisites: PED 500
Duration: One Month
Months Offered: July through June (not offered in December)

This elective involves both outpatient and inpatient care. The student will learn how to formulate a diagnostic workup. A treatment plan will be developed and the multidisciplinary approach to patient management will be emphasized.

The student will attend outpatient clinics each day and evaluate both new and established patients. The Oncology clinics are Monday, Wednesday and Friday. The Hematology clinics are on Tuesday and Thursday. Blood, spinal fluid and bone marrow smears will be reviewed.

A research project can be a part of this elective if the student so desires. (Drs. Lightsey, McKie, Munn, and Sabio)

PED 5018. Pediatric Critical Care (Special Elective)
Location: MCG Hospital and Clinics
Enrollment: 2 Maximum
Prerequisites: Must have completed PED 500 with a grade of B or above
Duration: One Month
Months Offered: July through June

This course is intended for students interested in critical care of infants and children. Students are assigned patients under the supervision of the critical care team and pediatric ICU attending. The focus of student teaching is to learn the basic skills needed for reorganizing and treating the critically ill child. Students are taught how to integrate proactively a multiple organ systems approach to problem solving for such medical conditions as respiratory failure, shock,

coma, pediatric trauma and care of the post-operative cardiac patient. This elective is NOT an acting internship. The setting is the Pediatric ICU at MCG Hospital. Those individuals interested in pediatrics, emergency medicine, anesthesiology or surgery are encouraged to enroll. Night call is arranged through the Pediatric ICU attending with home call being the predominant arrangement. Enrollment is limited to two students per month.
(Drs. Coule, Fisher, Pearson-Shaver, Steinhart, and Truemper)

PED 5019. Medical Genetics (Special Elective)
Location: MCG Hospital and Clinics
Enrollment: 1 Maximum
Prerequisites: PED 500
Duration: One Month
Months Offered: August through October, January through May

This elective is designed to expose the student to all aspects of clinical medical genetics. Students will participate in the evaluation and care of patients with genetic disorders. They will learn about birth defects, dysmorphology, dermatoglyphics, metabolic screening, metabolic disease. Students will do consults inhouse and on outpatients. They will participate in genetic counseling clinic and have the opportunity to see prenatal testing. Students will have the opportunity to observe the cytogenetics laboratory function, and if they so desire, perform their own karyotype. They will also observe the metabolic screening laboratory. Night call is not required. Students will have a core curriculum of directed reading. If desired, they may attend out of town satellite clinics. (Dr. Flannery)

PED 5020. Pediatric Endocrinology (Special Elective)
Location: MCG Hospital and Clinics
Enrollment: 1 Maximum
Prerequisites: PED 500
Duration: One Month
Months Offered: September–November, January–March, and May

This elective is designed to familiarize the student with normal variations in prepubertal and pubertal growth patterns, the diagnostic approach to pediatric endocrine conditions and the ongoing management of the conditions.

The weekly Pediatric Diabetes Clinics offer the student the opportunity to become familiar with the multidisciplinary approach to a chronic condition. In addition, each week there will be an x-ray conference and discussion of an assigned topic. Clinical research projects can also be arranged during the elective. (Dr. Hoffman)

PED 5021. Allergy Immunology Research Elective (Special Elective)
Location: MCG Hospital and Clinics
Enrollment: 2 Maximum
Prerequisites: None
Duration: One Month
Months Offered: July through October and December through June

A separate laboratory research elective is available which must be planned in advance with one of the faculty. This research would be expected to result in a presentation and/or publication. (Drs. Dolen, Meyer, Ownby, Stafford, and Wray, Chief)

PED 5022. Pediatric Pulmonology (Special Elective)
Location: MCG Hospital and Clinics
Enrollment: 1 Maximum
Prerequisites: PED 500
Duration: One Month
Months Offered: July through June

A four week rotation in Pediatric Pulmonology will include both inpatient consultation and outpatient management regarding patients with cystic fibrosis, bronchopulmonary dysplasia, asthma, recurrent pneumonias and other common and uncommon respiratory disorders. Didactic sessions are conducted weekly with a reading list provided at the beginning of the course. (Drs. Guill, Hudson, and Deane)

PED 5023. Adolescent Medicine Elective (Special Elective)
Location: MCG Hospital and Clinics
Enrollment: 1 Maximum
Prerequisites: PED 500
Duration: One Month
Months Offered: July through June

This elective provides a concentrated student exposure to adolescent medicine in the primary care (outpatient) environment. The spectrum of care can be expected to include acute and chronic illnesses, gynecologic care, sports medicine, psychosocial and family disorders, growth problems, contraceptive counseling, issues related to adolescent sexuality, and substance abuse disorders. The instructional focus will concentrate upon accurate, extended history taking and communication skills needed to care for this challenging patient population. Also, recognition and appreciation of the common maladies of adolescence will be taught and their treatments will be demonstrated. (Drs. Pendergrast, Bassali, and Moore).

Pharmacology and Toxicology

PHM 5270. Pharmacology (6-2-0-7)
Prerequisite: Second-year standing in School of Medicine.

One-semester course covers background to practice rational drug therapy. Emphasizes major classes of drugs, their mechanisms of action, patient factors affecting their pharmacokinetics and adverse actions.

PHM 5001. Toxicology
Location: MCG
Enrollment: 2 Minimum 8 Maximum
Prerequisites: Medical Course in Pharmacology
Duration: One Month

Months Offered: August

Students will participate in discussion and review of several aspects of toxicology including heavy metals, gaseous poisons, industrial and agricultural chemicals, poisonous plants and venoms. Emphasis is on human toxicology and includes selected reports to be presented by enrollees. (Dr. Kling and others, Ext. 3421)

PHM 5002. Clinical Pharmacology and Therapeutics (Special Elective–Green Sheet)
Location: MCG
Enrollment: 5 Minimum 16 Maximum
Prerequisites: Medical Course in Pharmacology
Duration: One Month
Months Offered: August or January

Interacting with a faculty of pharmacologists, physicians and clinical pharmacists, students will study rational approaches to drug therapy. Readings, discussions, case histories and clinic visits will be utilized. An additional goal of this course is for students to understand the process for clinical development of new drugs. Therapy areas to be covered will depend upon interests of enrollees. (Dr. R.W. Caldwell and others)

PHM 5003. Tutorial Elective in Pharmacology (Special Elective–Green Sheet)
Location: MCG
Enrollment: 1 Minimum 5 Maximum
Prerequisites: Medical Course in Pharmacology
Duration: One or Two Months
Months Offered: June through May

Students may elect to study in depth a specific area in Pharmacology and Toxicology under the guidance of one or more faculty members most familiar with that specific area. A list of faculty preceptors and subject areas is available in the Department Office (CB 3607). Arrangements to be made by the student with the member of the faculty involved in the tutorial program.

PHM 5004. Research Elective in Pharmacology (Special Elective–Green Sheet)
Location: MCG
Enrollment: 1 Minimum 2 Maximum per faculty member
Prerequisites: Approval by faculty member with whom research will be done
Duration: One to Two Months
Months Offered: June through May

Opportunity to participate in research programs being conducted by members of the faculty of the Department of Pharmacology and Toxicology. A list of faculty preceptors and projects is available in the office (CB 3607). Arrangements to be made by the students with a member of the faculty.

Physiology/Endocrinology

PHY 5150. Physiology (10-0-0-11)
Prerequisite: First-year standing in School of Medicine.

One-semester course presenting intensive treatment of mammalian organ system physiology including the cell, electrophysiology, peripheral nerve and reflexes, muscle, cardiovascular, respiration, body fluids, kidney, gastrointestinal and endocrine.

PHY 5001. Research Elective in Physiology and Endocrinology (Special Elective)
Location: MCG, Dept. of Physiology and Endocrinology
Enrollment: 1 Minimum 2 Maximum per Faculty member
Prerequisites: Approval by Faculty Member with whom research will be done
Duration: One to Two Months
Months Offered: By Arrangement

Opportunity to participate in research programs being conducted by members of the faculty of the Department of Physiology and Endocrinology. A list of faculty preceptors and projects is available in the Physiology/Endocrinology Depart-ment, Hamilton Wing, 3rd floor. Arrangements to be made by the students with a member of the faculty. (Dr. Mahesh)

PHY 5002. Elective in Physiology and Endocrinology Off Campus Elective–Green Sheet)
Location: OffCampus with Approval of Physiology/Endocrinology Department
Enrollment: 1 Minimum 2 Maximum per Faculty member
Prerequisites: Approval by Faculty Member with whom research will be done
Duration: One to Two Months
Months Offered: By Arrangement

Opportunity to work in areas of interest relevant to the educational program and offered at off campus locations. Arrangements to be made by the students with Dr. Mahesh.

Psychiatry

PSY 5000. Basic Psychiatry (5-0-30-15)
Prerequisite: Successful completion of phase II.

Required six-week clerkship provides intensive experience diagnosing and the treating psychiatric patients. Student performs complete evaluation of assigned patients, with collaboration and guidance of the staff, including a physical and mental status examination involved in formulating and carrying out a treatment plan for patient including use of individual psychotherapy, psychopharmacology, family therapy, group therapy and other therapeutic modalities.

PSY 5160. Behavioral Science/Psychiatry I(6-0-0-4)
Prerequisite: First-year standing in School of Medicine.

Introduction to basic principles of behavioral science and clinical psychiatry, including biological, psychological and social paradigms for understanding human thoughts, feelings and behavior, psychological development through the life cycle, psychiatric interviewing and mental status exam, physician-patient interactions, mental illnesses of children and adults, domestic violence, grief and bereavement.

PSY 5002. Consultation Liaison Psychiatry (Special Elective)
Location: MCG Hospital
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: One Month
Months Offered: July through June

This elective will provide the student doctor with the opportunity to learn directly about the medicine/psychiatry interface. A working knowledge of the ways to which medical illness and medications affect the mental and emotional life of patients is an integrated part of a good medical education. Likewise, an exploration of the impact of mental and emotional factors on the disease process and treatment of patients is also important in medical practice. This elective will present the student doctor with consultation cases from many departments treating patients, review chart work, and discuss cases during rounds with the C/L attending physicians. This medical/psychiatric experience can be invaluable for those going into any specialty in medicine. (Stewart Shevitz, M.D., Ext. 6713)

PSY 5003. Acute Inpatient Psychiatry Subinternship (Special Elective)
Location: VAMC
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: One to Three Months
Months Offered: July through June

Students are given the opportunity to work as a team leader in managing an acute care treatment team. They will function as an intern for a population of psychiatric patients and learn principals of administrative psychiatry as well as sharpen their skills in psychiatric diagnoses and treatment. The student will be caring for inpatients and outpatients.
(Dr. Susan L. Haverstock, 733-0188, Ext. 6226)

PSY 5004. Family Therapy (Special Elective)
Location: MCG Psychiatry Outpatient Clinic
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: One to Three Months
Months Offered: July through June

Students desiring supervision and training in the psychiatric assessment and treatment of individuals from a family systems perspective are encouraged to sign up for this elective. Students can expect to be involved in the direct treatment of marital and family therapy cases in both the outpatient and inpatient units. Supervision for these activities will be provided by faculty and will include live case observation as well as cotherapy. Students will attend Residents' Family Therapy Seminars, Weekly Outpatient Live Case Conferences, and Inpatient Family Assessment and Treatment Teams. Students will be assigned readings designed to acquaint them with basic and advanced clinical issues involved in Family Therapy approaches to treatment. (Dr. B. Davidson, Ext. 6711)

PSY 5005. Off Campus Elective (Special Elective–Green Sheet)
Location: Off Campus
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: One to Three Months
Months Offered: July through June

Special arrangements can be made for elective rotations at other institutions or for preceptorships with individual psychiatrists. Also, electives are available at the National Institute of Mental Health through an application process. (Dr. Donald Misch Ext. 3141)

PSY 5006. The Brain vs. Mind Conundrum Elective in Neuroimaging
Location: VA Hospital (Downtown Division)
Enrollment: 5 Maximum
Prerequisites: PSY 500
Duration: One to Three Months
Months Offered: July through June

This elective explores the organic basis of behavioral disorders with special emphasis on schizophrenia. Modern neuroimaging techniques including computerized image analysis, quantitative shape determinations and texture analysis will pinpoint areas of abnormal brain morphology that are amenable to study with higher resolution techniques. Putative pathological foci will be dissected by light microscopy or neurochemistry. The importance of the results will be analyzed according to application to the patient clinically. The student will be involved in understanding neuroimaging techniques and their clinical application. (Dr. Manuel F. Casanova, 733-0188, Ext. 2681)

PSY 5007. Eating Disorders Rotation (Special Elective)
Location: MCG Hospital, 3-South and Outpatient Psychiatry
Enrollment: Maximum 2
Prerequisites: PSY 500
Duration: One to Three Months
Months Offered: By Arrangement

Students will be given an opportunity to be an active member of the MCG Eating Disorders Treatment Team. Dependent upon previous experience, students will be given a number of responsibilities to include the observation and participation of initial assessments and evaluations as well as individual and group psychotherapy of both inpatient and outpatient eating disordered patients. Psychopharmacological management and medical assessment and treatment will also be emphasized. Reading material will be provided concerning a comprehensive biopsychosocial approach to the assessment and treatment of eating disorders. (Christian Lemmon, Ph.D., Ext. 6716)

PSY 5008. Extended Care Psychiatry
Location: VAMC
Enrollment: Maximum 2
Prerequisites: PSY 500
Duration: One to Three Months
Months Offered: June through May

This elective will provide experience in the multidisciplinary, biopsychosocial approach to the treatment resistant psychotic patient as well as exposure to research in psychosis. This will include particular pharmacologic dilemmas encountered in the patient who is both medically and psychiatrically ill and behavioral interventions. Responsibilities include direct patient care, development of individual treatment plans, and didactic sessions. (Dr. Denise Evans, 733-0188, Ext. 7078)

PSY 5009. Biological Psychiatry Elective (Special Elective)

Location: VA Hospital
Enrollment: 1 Minimum 5 Maximum
Prerequisites: Phase II
Duration: One to Three Months
Months Offered: July through June

This elective offers students the opportunity to work with both outpatients and inpatients.

Material covered will be on an informal basis by interaction with the staff, readings, discussions and workings with patients. Types of patients include those with movement disorders, such as tardive dyskinesia, Huntington's disease, and other abnormal involuntary movements, and acute as well as chronic psychotic patients. Psychopharmacological management and biological tests for these types of patients are emphasized.

Opportunity for students to participate in New Investigational Drug studies is also available. (Drs. Evans and Pathiraja,
733-0188, Ext. 7076)

PSY 5010. Inpatient Psychiatry (Special Elective)

Location: MCGH (3South)
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: One to Three Months
Months Offered: July through June

3-South is an adult inpatient psychiatric unit offering an interdisciplinary approach to patient care. The student will be included as an integral part of a general hospital psychiatry inpatient team. Responsibilities will include direct patient care, participation in team meetings, participation in group therapy, psychotherapy with supervision, and associated didactic learning experiences. The diverse patient population on 3South will provide the student with learning experiences in Eating Disorders, Electroconvulsive Therapy and Organic Mental Disorders, as well as Mood and Psychotic Disorders. The student will also have the opportunity of gaining experience in crisis intervention, family therapy, psychopharmacology, application of behavioral therapy, inpatient psychotherapy and management of medical problems contributing to psychiatric illness. (Dr. Lydia Weisser, Ext. 2161)

PSY 5011. Outpatient Psychotherapy (Special Elective)

Location: MCG Outpatient Clinic
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: One to Three Months
Months Offered: July through June

Students are offered the opportunity to work closely with second year psychiatry residents and faculty supervisors and to engage in supervised treatment of outpatients. This includes participating in providing intake assessment and disposition, individual and group psychotherapy, hypnotherapy, psychopharmacology, and family therapy while receiving supervision in these practices. Students will also be able to attend all teaching and case conferences. (Donald A. Misch, M.D., Ext. 3141)

PSY 5012. Post Traumatic Stress Disorder and Related Anxiety Disorders (Special Elective)

Location: VAMC, Unit 3E (PTSD inpt), Unit 3F (PTSD outpt)
Enrollment: Maximum 2
Prerequisites: PSY 500
Duration: Two Months
Months Offered: By Appointment

A well-integrated multidisciplinary team offers experience with assessment and treatment programs for mental health trauma disorders. The primary setting is outpaitent based and exposure to inpatient crisis care and emergency assessment is included. Major focus is in post-traumatic stress disorders, with stressors having occurred at least partly in military service–often related to combat events or to sexual trauma. Assessment and treatment of other sexual dysfunctions may be observed with the responsible faculty during a scheduled weekly out-patient clinic. Group therapy and classes are a major treatment modality as part of an integrated biopsycho-social approach. These programs are continuing to evolve rapidly in a VAMC which is recognized as a leader in adapting programs to changing political and funding priorities. (Lionel P. Solursh, M.D., 733-0188 Ext. 7609)

PSY 5015. Psychiatry and the Law (Special Elective)

Location: Uptown VAMC, Augusta Correctional Medical Institution, Georgia Regional Hospital, Psychiatry Outpatient Clinic
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: One to Three Months
Offered: July through June

Supervised experience in working with clinical and legal issues in the evaluation of behavior. You will have exposure to prison, hospital and outpatient populations and institutional systems and milieus. There will be individual tutorial sessions with experienced staff forensic psychiatrists provided. (Dr. Charles A. Meyer, Jr., Elective Monitor 733-0188, Ext. 7740)

PSY 5016. Substance Abuse

Location: VAMC Uptown Division, Wards 4D4E
Enrollment: Maximum 2
Prerequisites: None
Duration: One to Two months
Months offered: July through June

The VA Substance Abuse Treatment Unit offers a comprehensive program of inpatient and outpatient detoxification and rehabilitation, and is the site for a variety of educational and funded research activities. This elective will provide students an introduction to the diagnosis and treatment of patients with a variety of substance use disorders. Students will be an active member of an interdisciplinary treatment team and will be responsible for initial evaluation and medical management of selected inpatients and outpatients. They will be able to observe and participate in a wide variety of therapeutic modalities including psychoeducation, group therapy, therapeutic community, family therapy and Alcoholics Anonymous. Students will attend scheduled seminars and may be involved in research projects. The specific focus of the elective experience will be based on the individual student's interest. (Drs. Sullwold and Solursh, 733-0188, Ext. 7760)

PSY 5017. Clinical Neurobiology Research Seminar
Location: Psychiatry Outpatient Clinic
Enrollment: Maximum 8
Prerequisites: PSY 500
Duration: Four Weeks to Eight Weeks
Months Offered: February and March

The objective of the Clinical Neurobiology Research Seminar will be to familiarize the student with current topics in the clinical neurosciences. Emphasis will be placed on a critical reading of the literature, with teaching focused on methods of evaluating the integrity and context of the research literature. Topics will focus on the relationship of behavior to brain chemistry. Discussion will highlight the functional role of different neurotransmitter receptor subtypes, neuropeptides, and second messengers in regulation of stress adaptation, and the expression of cognitive, emotional and perceptual behaviors. The course will review selected advances in behavioral neuroendocrinology, neuropharmacololgy and the genetic bases of personality. Each student will be required to write a review paper for course completion. The goals of the seminar will be both to contribute toward the development of the student's interest in a particular area, as well as to integrate an understanding of where the field is advancing relevant to future physician careers. (Jeffrey Rausch, M.D., Ext. 7793)

Dwight David Eisenhower Army Medical Center Clerkships in Psychiatry

Eisenhower Medical Center offers a clerkships in Psychiatry and Neurology for MCG medical students in their clinical years of training. The third year clerkship in Psychiatry (PSY 500) is an introductory clinical rotation which teaches the student the basic skills in psychiatry needed for the practice of a non-psychiatric physician. This includes performing diagnostic interviews and mental status examinations, recognizing common mental disorders and establishing a correct differential diagnosis, and selecting an appropriate biopsychosocial treatment plan.

Elective clerkships for fourth year students are also available. A brief description of these elective clerkships follows. Specific curricula can be arranged to meet the training needs of students. Interested students should contact the Director of Psychiatry Training (Dr. Lawrence M. Correnti) at Eisenhower Army Medical Center (706) 787-2550.

PSY 5018. Consultation Liaison Psychiatry (Special Elective)
Location: Eisenhower Army Medical Center
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: Four Weeks Minimum
Months Offered: July–June

The student rotates on a full-time Psychiatry Consultation-Liaison Service providing emergency and routine mental health consultation services to inpatient and outpatient medical and surgical services. Full time faculty supervision is provided, as well as a lecture series. Typically, students gain experience with the presentation of disorders such as depression, anxiety disorder, somatoform disorders, substance use disorders, and organic mental disorders, presenting in a variety of medical clinics and on inpatient services. This elective is very useful for any student planning on pursuing training in any primary care medical specialty, as well as psychiatry. (Lawrence Correnti, M.D., 787-2550)

PSY 5019. Inpatient Alcohol and Drug Rehabilitation (Special Elective)
Location: Eisenhower Army Medical Center
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: Four Weeks Minimum
Months Offered: July through June

The student rotates on a six-week inpatient residential treatment program for patients with substance abuse disorder. Supervision is provided by a full-time psychiatrist who is board certified in addiction psychiatry. The student participates in the evaluation of new patients, learns multidisciplinary treatment, and becomes a part of the treatment team. This elective provides extensive instruction in state-of-the-art inpatient treatment for patients with alcohol and drug dependence. (Lawrence Correnti, M.D., 787-2550)

PSY 5020. Outpatient Psychiatry (Special Elective)
Location: Eisenhower Army Medical Center
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: Four Weeks Minimum
Months Offered: July through June

The student rotates in a busy outpatient psychiatry clinic. The student has the opportunity to conduct emergency and routine psychiatric evaluations, develop treatment plans, and implement brief treatment with selected patients. Close supervision is provided by PGY3 psychiatry residents and faculty supervisors. Case conferences, lectures, and seminars are

provided as part of the rotation. Extensive experience is gained with the outpatient evaluation and treatment of patients with mental illnesses. (Lawrence Correnti, M.D., 787-2550)

PSY 5021. Neuropsychology in Adult and Aged Non-Human Primates (Special Elective)
Location: MCG, CB 3917 (office) and Animal Behavior Center, Bldg. OB
Enrollment: Maximum 3
Prerequisites: PSY 500
Duration: Two to Three Months
Months Offered: By Arrangement

The student will participate in an ongoing research program in which rhesus monkeys are trained to perform certain operant tasks used to assess cognition and memory. The studies will be performed at the Animal Behavior Center, a core facility of the Alzheimer's Research Center. Focus will be placed on the study of novel drugs and procedures developed for the treatment of cognitive diseases such as Alzheimer's disease and attention deficit disorder. Students will receive background information in these areas and participate in the training of animals, administration of treatment regimens, and data analysis. (Jerry J. Buccafusco, Ph.D. 721-6355)

PSY 5022. Geriatric Neuropsychiatry
Location: VAMC Uptown Division
Enrollment: Maximum 4
Prerequisites: NEU 500 or PSY 500
Duration: One to Three Months
Months Offered: July through June

This is a primary care elective with emphasis on the organic cause of psychiatric manifestations in the elderly. The student will participate in the initial evaluation, work-up, and care of both inpatients and outpatients at the VAMC Uptown Division. The major selection of patients will include patients who need an evaluation or reassessment of a diagnosis of dementia or patients with late onset psychotic symptoms. The student will learn about pharmacological and behavioral management of these patients. The student will also participate in the following educational meetings: 1) Every Monday–Journal Club; 2) Every Wednesday, 10:30–11:30 a.m.: Patient Rounds; 3) Every first and third Thursday–NeuroscienceJournal Club

PSY 5023. Inpatient and Consultation Child Psychiatry
Location: MCG Hospital, 3-South, 9-North
Enrollment: 1 per rotation
Prerequisites: PSY 500
Duration: One Month
Months Offered: August through December, February through June

This elective consists of both inpatient and consultation-liaison components. In the former, the student will participate as a member of a multidisciplinary inpatient treatment team in the evaluation and inpatient care of children (ages 3-12 years) with severe behavioral and emotional problems. The student will be involved in individual, family and group treatment modalities as well as attend didactic presentations on topics in child psychiatry. In the second component of this elective, the student will participate in the child psychiatry consultation-liaison service through which psychiatric difficulties of children in other areas of the hospital are addressed. Elective goals include gaining a knowledge of diagnostic issues, evaluation strategies, behavioral and pharmacologic treatments and mental health resources available for children. The student will work directly with facutly and child psychiatry fellows. (Dr. Betsy Sunde, Ext. 2165)

PSY 5024. Tutorial Elective in Psychiatry (Special Elective–Green Sheet)
Location: MCG, VA or Georgia Regional Hospital
Enrollment: 1 Minimum, 5 Maximum
Prerequisites: PSY 500
Duration: One or Two Months
Months Offered: July through June

Students may elect to study in depth a specific area in Psychiatry under the guidance of one or more faculty members most familiar with that specific area. Arrangements to be made by the student with the member of the faculty involved in the tutorial program. (Simon Sebastian, M.B.B.S.)

PSY 5025. Advanced Inpatient Psychiatry (Special Elective)
Location: Eisenhower Army Medical Center
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: Four Weeks
Months Offered: July through June

The student rotates on a 60-bed acute general inpatient psychiatry unit. Close supervision is provided by PGY2 residents, the PGY4 Chief Resident, and staff faculty members who are available at all times. Compared to the junior student clerkship, additional responsibility and clinical opportunities are provided, depending on the needs and interests of the student. A lecture series is provided. This elective is especially helpful for students planning on pursuing psychiatry residency training. (Lawrence Correnti, M.D., 787-2550)

PSY 5026. Child Psychiatry (Special Elective)
Location: Eisenhower Army Medical Center
Enrollment: By Arrangement
Prerequisites: PSY 500
Duration: Four Weeks Minimum
Months Offered: July through June

The student rotates in the child psychiatry service, with the opportunity to observe evaluations of children and families, conduct assessments, and participate in treatment. Close supervision is provided by child psychiatry fellows and faculty child psychiatrists. Skills developed during this rotation include emergency and routine assessment of children, performing a child mental status examination, making appropriate diagnosis of childhood mental disorders, determining appropriate treatment plans including individual therapy,

family therapy, and psychopharmacology, and working with a multidisciplinary child mental health team. (Lawrence Correnti, M.D., 787-2550)

PSY 5027. Private Practice Psychiatry (Special Elective–Green Sheet)
Location: Valdosta, Georgia
Enrollment: 2 Maximum
Prerequisites: PSY 500
Duration: One to Two Months
Months Offered: July through June

The goal of this elective is to expose the student to the private practice environment. The student will see a mix of inpatients and outpatients in a private psychiatric hospital as well as a community hospital. Students will also be given an opportunity to observe the treatment of patients in a managed care setting and learn more about the management of a private practice office. In addition to learning management skills, the student will be exposed to a variety of psychiatric disorders. After completion of this elective, the student should develop a better understanding of the frequency of psychiatric disorders seen in the rural community. (Dr. Joe Morgan, 921/244-4200).

Radiology

RAD 5001. Radiology
Location: MCG Hospital
Enrollment: 6 Minimum 16 Maximum
Prerequisites: None
Duration: 4 weeks
Months Offered: August through May (June, July by arrangement with Dr. Wanda Mundy)

The four week elective provides a basic overview of clinical radiology. Students rotate through most of the major areas of radiology, participating in the clinical diagnostic process. In addition to clinical rotations, lectures and case conferences are scheduled throughout the rotation. The primary goal of the elective is to help the student develop a better understanding of the functions of radiology as a contributor to primary care of the patient. The student will learn to recognize certain basic radiographic signs and patterns; however, it is not intended that students will be able to "read" a radiograph at the end of the elective.

RAD 5002. Radiobiology (Special Elective)
Location: MCG Hospital
Enrollment: 1–2
Prerequisites: None
Duration: 4 weeks
Frequency: By arrangement with Professor (see Dr. Mundy)

This course focuses primarily on the physiological and anatomical effects of ionizing radiation on biological systems, dealing specifically with x, gamma, and beta radiations as they are applied in diagnostic and therapeutic protocols. The scope of the course includes an introduction to radiobiology, radiation hazards and radioprotection. Specific topics include the production and use of x radiation at varying levels of energy as well as the development, application and effects of gamma and beta emitting radiopharaceuticals. The somatic and genetic effects of diagnostic levels, therapeutic doses, and inadvertent exposure to environmental and/or industrial contaminations are addressed. The material is presented primarily in lecture format with a limited number of laboratory exercises, but students are encouraged to participate in ongoing or individual research projects.

RAD 5003. Clerkship in Pediatric Radiology (Special Elective)
Location: MCG Hospital and/or Children's Medical Center
Enrollment: 2 Maximum
Prerequisites: None
Duration: 4 weeks
Months Offered: August through May (see Dr. Mundy)

This clerkship is designed for students who have an interest in Pediatrics or Family Medicine. The four-week rotation will include exposure to radiography, fluoroscopy, CT, ultrasound, and MRI of the pediatric patient. In addition to didactic lectures, the student will attend film reading sessions with faculty and resident(s).

The goals of this course include learning basic film reading including chest radiography, understanding the modalities to image pediatric pathology, and determining an efficient approach to the radiologic evaluation of the pediatric patient.

RAD 5004. Advanced Clerkship in Diagnostic Radiology (Special Elective)
Location: MCG Hospital and/or VAMC
Enrollment: Maximum 6
Prerequisites: RAD 501 (or permission of Department Chairman)
Duration: 4 weeks
Months Offered: By arrangement with Dr. Wanda Mundy

This advanced clerkship is designed for students who, after completing RAD 501, desire additional exposure to diagnostic radiology. The four weeks can be spent in one specific section of the Department or a combination of sections to accommodate the desire and need of the individual student.

The student is assigned to work with a mentor in the area of his/her specific interest. Together, they plan objectives and activities to include patient care, academic pursuits, and/or research. The mentor and the student agree on an evaluation plan consistent with the objectives and activities.

RAD 5005. Radiology Clerkship (Off Campus Elective–Green Sheet)
Location: Off Campus site by special arrangement
Enrollment: Variable
Prerequisites: None
Duration: 4 weeks
Months Offered: By arrangement (see Dr. Mundy)

Special arrangements can be made for elective periods of four weeks in the Department of Radiology of

other institutions or as preceptorships with individual radiologists, subject to approval of the Chairman of the MCG Department of Radiology.

The student must work with a mentor at the off campus site to plan objectives, activities, and evaluation of experiences. This course is generally considered to be comparable to RAD 501 in purpose and design. It is often chosen by the student who is considering pursuit of a radiology residency who would like to obtain additional and varied experiences in the field.

RAD 5006. Clerkship in Radiation Therapy Oncology
Location: Georgia Radiation Therapy Center
Enrollment: 1 Minimum 2 Maximum
Prerequisites: None
Duration: 4 weeks
Months Offered: July through June

The student will be afforded an opportunity to see a large variety of tumors treated with various modalities of radiation therapy. He will participate in tumor conferences at the various hospitals and also attend the radiation therapy cancer clinics at the Georgia Radiation Therapy Center. He will get experience in the workup and general management of the cancer patient in the areas of curative therapy, palliation, and supportive care. (Dr. Chris Sheils)

RAD 5007. Vascular/Interventional Radiology (Special Elective)
Location: MCG, UH, and/or VAMC
Enrollment: 2 Maximum
Prerequisites: Senior Medical Student
Duration: 4 weeks
Months Offered: By arrangement with Professor (see Dr. Mundy)

The student works one-on-one with faculty angiographers in the performance of vascular and interventional procedures. The student and the attending set specific goals and plan learning activities that will lead to attainment of the student's objectives. Students will assist with patient preparation and monitoring, write clinical workups, observe procedures, and assist residents/fellows in preparation for case conferences. Sufficient time will be allowed for studying the teaching file and participating in similar learning activities. (Dr. Bates)

Surgery

SUR 5000. Basic Clerkship in Surgery (8-0-99-15)
Prerequisite: Successful completion of phase II.

Six-week clerkship provides fundamental experience in general surgery. Although most time will be spent helping care for inpatients, students also participate in outpatient clinics. Emphasizes diagnostic evaluation, preoperative and postoperative care. Emphasizes evaluation of common outpatient conditions often seen by surgeons.

SUR 5001. General Surgery Clerkship (Special Elective)
Location: Dwight David Eisenhower Army Medical Center
Enrollment: 1 Minimum 4 Maximum
Prerequisites: SUR 500
Duration: One Month
Months Offered: July through June

Consists of both ward and ambulatory surgical patient responsibilities for initial evaluation, pre and postoperative planning and care under the supervision of the surgical resident house staff and the Director of Surgical Education. Experience will include the care of peripheral vascular, thoracic, colorectal and general surgical patients as well as a broad exposure to all other surgical specialties. The student will be a participant in all scheduled teaching conferences. (Individual arrangements must be made in advance through the Department of Surgery, Medical College of Georgia and Eisenhower Army Medical Center.)

SUR 5002. General Surgery Research (Special Elective–Green Sheet)
Location: MCG Hospital, VA
Enrollment: 1 Minimum 2 Maximum per Tutor
Prerequisites: None
Duration: One to Two Months
Months Offered: July through June

Individual students may elect to study in depth, for a period of one to two months, any specific area in surgery under the guidance of the faculty member most familiar with that specific area. A thesis or report on the subject chosen is a necessary part of this elective. No student is eligible for more than one such elective. (Chairman and Staff)

SUR 5003. Preceptorship (Special Elective–Green Sheet)
Location: To be provided at time of Registration
Enrollment: 1 Minimum 2 Maximum per Preceptor
Prerequisites: SUR 500
Duration: One to Two Months
Months Offered: July through June

Clinical experience with individual private preceptor, in his office, operating room and hospital. (Individual arrangements must be made through both the Chairman of Surgery and the Clinical Surgeon involved.)

SUR 5004. Off Campus Experience (Special Elective–Green Sheet)
Location: To be provided at the time of registration. Includes Columbus.
Enrollment: 1 Minimum 2 Maximum
Prerequisites: SUR 500
Duration: One to Two Months
Months Offered: July through June

Students may elect off campus experience in some phase of surgery in some other Medical School or institution for a period of one to two months. For help in making arrangements, interested students should contact the Medical College of Georgia counterpart of the

individual at the other institution with whom he wishes to work. Such electives must be an identifiable course of instruction. An evaluation of student's performance will be required. No student is eligible for more than one such elective. (Chairman of Surgery)

SUR 5005. Senior Student Trauma Rotation (Special Elective)

Location: Memorial Medical Center, Savannah, Georgia
Enrollment: Maximum 1
Prerequisites: SUR 500
Duration: One Month
Months Offered: July through June

The student will be assigned to the Director of the Trauma Service and be responsible to him. The experience will include trauma call, trauma surgery, patient care in the trauma intensive care unit, and patient care in the outpatient clinics. Lectures on trauma care and trauma system development will be included. An introduction to the principles and practices of prehospital care, to include experience on both helicopter and ground EMS services, is included. (Carl R. Boyd, M.D., F.A.C.S.)

Objectives: To give the student an understanding of the principles and practice of care of the multiple injured patient. Also, the student should gain an understanding of the importance of the trauma care system development in prehospital care of the trauma patient.

Evaluation: Evaluation will be by direct observation by the preceptor and also by standardized written tests at the end of the rotation.

Arrangements should be made through the Department of Surgery, Medical College of Georgia, and Memorial Medical Center, Surgical Education Department, Savannah, Georgia (912) 350-8076.

SUR 5006. Advanced Clerkship at Memorial Medical Center, Savannah, GA (Special Elective)

Location: Memorial Medical Center Inc., Savannah, GA
Enrollment: Minimum 1 Maximum 2
Prerequisite: SUR 500
Duration: 4 weeks
Months Offered: July through June

During this elective experience the student will be assigned to one of the general surgical services and function as an intern under the watchful eye of the chief resident and chief of service. He or she can expect to be responsible for assigned patients, do a complete work up, scrub on the surgery, be asked to write orders, and follow the patient throughout their hospital course. This elective will be useful in allowing the students to determine whether they wish to pursue a career in surgery or not. (Carl R. Boyd, M.D., F.A.C.S.)

(Arrangements should be made through the Department of Surgery, Medical College of Georgia, and Memorial Medical Center, Surgical Education Department, Savannah, Georgia, (912) 350-8076.)

SUR 5007. Substitute Internship

Location: MCG Hospital and VA Hospital
Enrollment: Maximum 4 per month
Prerequisites: SUR 500
Duration: One to two months
Months Offered: July through June

After signing up for this elective, no drops are allowed without written permission of Dr. Steinberg in Department of Surgery.

Students on this elective will function as substitute interns on the General Surgical Services at the Medical College of Georgia Hospitals. The student will be assigned to a specific surgical service and will function as an integral part of that service. The student is expected to initiate the clinical data base, begin diagnostic measures, and where possible, perform surgical procedures with supervision. In addition, he will participate in the teaching responsibilities, conferences, clinics, and operating experiences of the service to which he is assigned and will be assigned night call responsibilities.

SUR 5008. Clinical Management of the Critically Ill/Injured Patient

Location: MCG Hospital
Enrollment: 1 Minimum 3 Maximum
Prerequisites: SUR 500
Duration: One Month
Months Offered: July through June

The student will be involved in the care of patients on the Burn/Trauma Service. These patient frequently have injuries and functional disruption of multiple organ systems and therefore offer opportunities not only in learning management of burns and trauma, but also critical care. Cardiovascular, pulmonary and renal physiology are stressed and the frequent use of mechanical ventilatory support and invasive cardiovascular monitoring provide extensive experience in care of the critically ill. The interrelationship of anatomy, pathophysiology, biochemistry, pharmacology and microbiology is studied in relationship to the management of burns, trauma and critical care. Selected readings, didactic presentations, video taped lectures, perceptually instruction and clinical interface are all used as teaching methodology. These students participate as an active member of the patient care team. (Dr. Hawkins)

SUR 5009. Clerkship, Georgia Baptist Medical Center (Special Elective)

Location: Georgia Baptist Medical Center, Atlanta, GA
Enrollment: 1 Minimum 6 Maximum
Prerequisites: Core Curriculum
Duration: One Month Minimum, Two Months Max
Months Offered: July through June

During assignment in surgery at Georgia Baptist Medical Center in Atlanta, students will be introduced to surgical practice in a major private hospital setting.

During this educational experience, there will be daily morning academic encounters through attending teaching, covering various areas of general and subspecialty surgery, giving academic introductions to cardio-

vascular, pulmonary, urologic, trauma, plastic and general surgery. The student will be assigned daily to surgical scrubs and will usually observe two to three cases. Participation in private office and clinics is expected.

Special attention will be devoted to the student on principles of physical examination of the acute as well as the chronic surgical problem patient. Bedside teaching in these areas will be paramount.

To supplement lectures and operative experience, surgical rounds will be conducted daily, on the floors as well as in the intensive care unit areas along with the surgical house officers and the Chief Resident of Surgery. Special attention during these rounds will be given to problems of critical care monitoring, fluid and electrolyte replacement, hyperalimentation and placement of certain sophisticated monitoring devices such as SwanGanz catheters.

A surgical library is provided for reading and study during free time and academic pursuit along these lines is stressed while learning practical experience of patient evaluation and care.

Senior students interested contact directly the Administrative Secretary for the Department of Surgery, Office of Medical Education, (404) 265-4411.

SUR 5010. Nutrition, Enteral and Parenteral Advanced Clerkship, Georgia Baptist Medical Center Metabolic Support Service (Special Elective)

Location: Georgia Baptist Medical Center, Atlanta, GA
Enrollment: 1 Minimum 1 Maximum
Prerequisites: Core Curriculum
Duration: One Month
Months Offered: July through June

During assignment in the Metabolic Support Service at Georgia Baptist Medical Center in Atlanta, senior students will be introduced to the principles and techniques of nutritional support (enteral and parenteral) in a major private hospital setting.

During this educational experience the student will be allowed to make daily rounds with members of the Metabolic Support Service, i.e., physician, nurse, dietitian, pharmacist, and Trauma/ICU teams.

There will be lectures on the principles and concepts of total parenteral protein sparing, and enteral alimentation. In addition, the student will have an opportunity to participate in consultations, the initial workup prior to beginning nutritional support, and daily followup and monitoring.

The student will also receive instruction in assessment of nutritional status, potential metabolic complications, complications associated with the insertion of central venous catheters, and the use of nutritional support in hepatic and renal failure. Attention will also be devoted to formulation of solutions, drug interactions, and composition of tube feeding formulas.

To supplement lectures and clinical experience, teaching rounds will be conducted weekly with all members of the health care team, i.e., Infection Control, Pathology Department, Pharmacy. During these rounds, adherence to protocols, fluid and electrolyte imbalance, and individual patient recommendations will be discussed.

The student will also have the opportunity to read and study current references on the methods of nutritional support provided by the Medical Library and the Metabolic Support Service.

Senior students interested should contact directly the Administrative Secretary for the Department of Surgery, Office of Medical Education, (404) 265-4411.

SUR 5011. Surgical Oncology (Special Elective)

Location: Georgia Baptist Medical Center, Atlanta, GA
Enrollment: 1 Minimum 6 Maximum
Duration: One Month Minimum Two Months Max
Month Offered: July through June

This elective will provide the senior medical student opportunity to evaluate comprehensively the preoperative cancer patient, participate in surgical management as well as postoperative inhouse and office continuing care.

Assignment to specific surgical attendings on daily selected case(s) basis will broaden the exposure to neoplastic processes and alternatives in their management.

Histories and Physical Examinations will be performed as well as review of preoperative and postoperative studies. Selected reading will be assigned as indicated. Daily rounds will be made with assigned attendings.

Presentation of appropriate cases at the weekly tumor conference will be expected, at which time the multidisciplinary therapeutic approach to the cancer patient will be emphasized.

An attempt will be made to involve specialty areas of gastrointestinal, liver and biliary, pancreatic, gynecologic, urologic, head and neck, thoracic, as well as neurologic malignant process.

Nutritional support of the cancer patient will receive focal attention.

Senior students interested should contact directly the Administrative Secretary for the Department of Surgery, Office of Medical Education, (404) 265-4411.

SUR 5012. Vascular Surgery at Georgia Baptist Medical Center (Special Elective)

Location: Georgia Baptist Medical Center, Atlanta, Georgia
Enrollment: 1 Minimum 3 Maximum
Prerequisites: Core Curriculum
Duration: 1 Month Minimum Two Months Max
Month Offered: July through June

During assignment at Georgia Baptist Medical Center in Atlanta, students will be introduced to peripheral vascular surgery.

During this rotation, there will be daily morning academic teaching through attending rounds and scheduled conferences. The student will be assigned to vascular surgical cases and will assist on two to three operations daily. Participation in private office and clinics is expected.

To supplement lectures and operative experience, surgical rounds will be conducted daily in the ICU and

floors along with the surgical houseofficers and Vascular Fellow. Special attention during these rounds will be given to the management and care of these complicated patients which includes critical care monitoring, fluid and electrolyte replacement, and placement of intravascular devices (ie., SwanGanz Catheters, dialysis catheters, etc.).

A surgical library is provided for reading and study during free time and academic pursuit along these lines is stressed while learning practical experience of patient evaluation and care.

Senior students interested should contact directly the Administrative Secretary for the Department of Surgery, Office of Medical Education: (404) 265-4411.

SUR 5013 Surgical Critical Care/Trauma Clerkship (Special Elective)

Location: Georgia Baptist Medical Center, Atlanta, Georgia
Enrollment: 1 Minimum 3 Maximum
Prerequisites: Core Curriculum
Duration: 1 Month Minimum 2 Months Max
Month Offered: July through June

During assignment at Georgia Baptist Medical Center, Atlanta, students will be introduced to Surgical Critical Care and Trauma.

There is an 18 bed Surgical Intensive Care Unit (SICU) and a moderately busy Trauma Surgery service, and VICU and CVICU. During this rotation, the student will be assigned to patients in the SICU related procedures. There are daily teaching rounds in the SICU with the faculty and housestaff, as well as a variety of surgical conferences on a weekly basis.

The exposure to trauma patients is varied and depends on the types of patients admitted. The majority have received blunt injury and are assessed in the trauma admitting area. There is opportunity to spend time with the helicopter team relative to transport care and issues.

A surgical library is provided for reading and study during free time and academic pursuit along these lines is stressed while learning practical experience of patient evaluation and care.

Senior students interested should contact directly the Administrative Secretary for the Department of Surgery, Office of Medical Education, (404) 265-4411.

Neurosurgery

SUR 5200. Neurosurgery Clerkship

Location: MCG Hospital, VA
Enrollment: 1 Minimum 4 Maximum
Prerequisites: NEU 500
Duration: One to Two Months
Months Offered: July through June

This externship provides opportunity for combining the direct patient care responsibilities of a junior house officer with practice in performing neurological examinations while participating with staff members in the practice of neurosurgery. The extern will be assigned eight patients for which he will have primary responsibility for daily care under the supervision of the senior house officer and staff of the Neurosurgery Service. He will participate in patient evaluations in the clinic and in daily teaching conferences. This elective provides for a close working relationship between the staff and the student while at the same time providing opportunity for patient care responsibilities.

SUR 5201. Neurosurgical Rotation (Special Elective)

Location: Memorial Medical Center, Savannah, GA
Enrollment: No Maximum
Prerequisites: Completion of Junior Year
Duration: One Month
Months Offered: July through June

A four week elective rotation on neurosurgery which is designed to familiarize the senior medical student with neurosurgery and its relation to the clinical care of patients with neurological illnesses. There is an emphasis on the common every day neurosurgical problems with attention to the diagnosis and surgical treatment of these disorders and neurointensive care. Rotation will include daily rounds on the neurosurgical service, daily sessions in the operating theater and evaluation of patients in the clinic, both preoperatively and postoperatively. The diagnosis will include myelography, angiography and CT and MR imaging. It will also include an introduction to electrodiagnostic techniques, including EEG, EMG, and evoked potential studies. An introduction to neuropathology in a clinical case correlation method will also be provided. A reading list and daily clinical discussions will be provided to insure that the elective rotation provides well rounded and thorough introduction to neurosurgery. (Drs. Edward Downing, Roy Baker, Fremont Wirth, Cliff Cannon, and James G. Lindley)

Objectives: The senior student will obtain a broad overall experience to neurological problems and their surgical treatment.

Evaluation: Oral.

Arrangements should be made through the Department of Surgery, Medical College of Georgia, and Memorial Medical Center, Surgical Education Department, Savannah, Georgia, (912) 350-8076.

SUR 5202. Neurosurgery Preceptorship (Special Elective–Green Sheet)

Location: To be provided at time of Registration
Enrollment: 1 Minimum 2 Maximum
Duration: One to Two Months
Prerequisites: NEU 500
Months Offered: July through June

The purpose of this elective is to provide an opportunity for those students who wish to study neurosurgery at some other institution. This may be desirable because the student is already taking another elective at that institution or because he plans to settle in that region or because their is a particular type of neurological surgery being done there that the student is interested in. It will be necessary to talk over the needs of the student in detail with Dr. Dennis McDonnell prior to making arrangements for this elective. (Dr. Dennis McDonnell)

SUR 5203. Combination Neurosurgery Clerkship and Research
Location: MCG Hospital or VA
Enrollment: 1 Minimum 2 Maximum
Prerequisites: NEU 500
Duration: One to Two Months
Offered: July through June

This experience provides opportunity for direct patient care responsibilities of a junior house officer with practice in performing neurological examinations and participating in neurosurgical therapy and simultaneously becoming involved in a limited neurosurgical clinical research experience. The research project may be initiated by the student or he may elect to participate in an ongoing research project with one of the faculty members. The patient care responsibilities will be limited to five or six patients and accomplished under the supervision of the chief resident and staff.

This elective will necessarily be arranged on an individual basis with the particular faculty member with whom the student wishes to perform the research in order to assure facilities. (Dr. Dennis McDonnell)

SUR 5205. Pediatric Neurosurgery Clerkship (Special Elective)
Location: MCG Hospital
Enrollment: 1 Min 2 Maximum
Prerequisites: NEU 500
Duration: 1 Month
Months: July through June

Pediatric Neurosurgery focuses on the management of developing nervous system. This elective will encompass inpatient and outpatient care of these children. The student will participate in daily ward rounds, diagnostic and treatment planning, surgery and outpatient evaluation under the supervision of Neurosurgery house officers and staff.

The emphasis of the clerkship will be on the unique nature of children's neurosurgical problems, as well as on the management of these problems, both through surgery and the interactions with other medical and surgical pediatric specialists such as Neuronatology, Neurology, Oncology and Intensive Care. Students should contact Dr. Ann Flannery prior to signing up for this elective.

Otolaryngology

SUR 5250. Otolaryngology
Location: MCG Hospital
Enrollment: 1 Minimum 3 Maximum
Prerequisites: None
Duration: One Month
Months Offered: July through June

This clerkship is designed to familiarize the student with the diseases of the ears, nose and throat with emphasis on diagnostic techniques, including physical examination techniques, radiology, audiometrics and endoscopic procedures. The student will be introduced to the principles of head and neck surgery, facial plastic surgery, endoscopy and neurotology. The utilization of the office and hospital patients will allow the student to participate in and observe the specialty of Otolaryngology. (Dr. Porubsky)

SUR 5251. Otolaryngology Surgery
Location: VA Hospital
Enrollment: 1 Minimum 2 Maximum
Prerequisites: None
Duration: One Month
Months Offered: July through June

This clerkship is designed to familiarize the student with the diseases of the ears, nose and throat with emphasis on diagnostic techniques, including physical examination techniques, radiology, audiometrics and endoscopic procedures. The student will be introduced to the principles of head and neck surgery, endoscopy and neurotology. (Dr. Klippert)

SUR 5252. Otolaryngology Off Campus Experience (Special Elective–Green Sheet)
Location: Provided at time of Registration
Enrollment: Open
Prerequisites: None
Duration: One Month
Months Offered: July through June

Students may elect off campus experience in place of Otolaryngology in some other medical school or institution for a period of one to two months. For help in making arrangements, interested students should contact the Section of Otolaryngology here at the Medical College of Georgia. Arrangements then can be made with the counterpart at the other institution. An evaluation of the student's performance will be required. (Dr. Porubsky)

SUR 5253. Clerkship in Otolaryngology and Head and Neck Surgery (Special Elective)
Location: Memorial Medical Center, Savannah, GA
Enrollment: One per month
Prerequisites: SUR 500
Duration: One Month
Months Offered: July through June

This elective provides exposure to inpatient and outpatient otology, rhinology, laryngology, and head and neck surgery. The student will be exposed to hospital consultations, emergency room call, and will be able to follow the patient from initial outpatient examination through the operating room and postoperative care, to discharge. (Drs. Michael Zoller and Fred L. Daniel)

Objectives: This elective will provide exposure to all aspects of otolaryngology and head and neck surgery.

Evaluations: No exam, but clinical evaluation by preceptors.

Arrangements should be made through the Department of Surgery, Medical College of Georgia, and Memorial Medical Center, Surgical Education Department, Savannah, Georgia (912) 350-8076.

Orthopedics

SUR 5275. Orthopedics Clerkship (Special Elective)
Location: MCG Hospital and Clinics, VA Hospital, University (Designate location)
Enrollment: 1 Minimum 3 Maximum
Prerequisites: SUR 500
Duration: One Month
Months Offered: July through June
Arrange through Faculty Coordinator, Dr. Levine.

SUR 5276. Orthopedics Tutorial (Special Elective)
Location: MCG Hospital and Clinics, VA Hospital
Enrollment: 1 Minimum 3 Maximum
Prerequisites: SUR 500
Duration: One to Two Months
Months Offered: July through June
Arrange through Faculty Coordinator, Dr. Levine.

SUR 5277. Orthopedics Preceptorship, Augusta Private Office or Eisenhower General Hospital (Special Elective–Green Sheet)
Location: To be provided at the time of registration
Enrollment: 1 Minimum 2 Maximum per preceptor
Prerequisites: SUR 500
Duration: One to Two Months
Months Offered: July through June
Arrange through Faculty Coordinator, Dr. Levine.

SUR 5278. Orthopedics Off Campus Experience (Special Elective–Green Sheet)
Location: To be provided at the time of registration
Enrollment: 1 Minimum 2 Max per preceptor
Prerequisites: SUR 500
Duration: One to Two Months
Months Offered: July through June
Arrange through Faculty Coordinator, Dr. Levine.

SUR 5279. Hand Surgery (Special Elective–Green Sheet)
Location: As Arranged
Enrollment: 2 Max per preceptor
Prerequisites: SUR 500
Duration: One to Two Months
Months Offered: July through June
Arrange through Faculty Coordinator, Dr. Levine.

SUR 5280. Spinal Cord Injury Service (Special Elective)
Location: VA Medical Center
Enrollment: 1 Minimum 3 Maximum
Prerequisites: SUR 500
Duration: One to Two Months
Months Offered: July through June
This is a primary care elective. The student will manage spinal cord injured patients admitted to SCI Service at the VAMC. Regular daily bedside teaching rounds will be held as well as preceptor student sessions with faculty members on SCIS Staff. The student will be exposed to the variety of altered physiologic and psychologic responses of spinal cord injured patients, including neurosurgical and orthopedic problems. Such patients also require the application of all phases of medicine for example, acute respiratory failure requiring ventilator support, pulmonary thromboembolism, pneumonia, dysreflexia, pulmonary etc. The student will be part of a multidisciplinary team involved in various stages of rehabilitation. This elective will also familiarize the student with various types of adaptive equipment and the direct application of rehabilitative medicine principles.
Supervision will be provided by the SCIS Staff Physicians.
Arrange through Faculty Coordinator Dr. Vidya C. Sridharan, Chief, Spinal Cord Injury Service, VA Medical Center or Dr. Levine, Orthopaedic Service, ETMH.

SUR 5282. Orthopedic Surgery Research (Special Elective)
Location: MCG Hospital and Clinics and Surgical Research Laboratories
Enrollment: 1 Minimum 2 Maximum
Prerequisites: SUR 500
Duration: One to Two Months
Months Offered: July through June
This elective is designed to provide the student with research experience in orthopaedic surgery. The student may suggest a research proposal or participate in one of the studies that are currently ongoing in the section. These studies include investigations in tissue responses to implanted biomaterials, evaluation of implants and tissue interfaces to implants and patient outcome studies in a variety of clinical areas. Arrangements should be made with David E. Steflik, Ed.D., Director of Research, Orthopedic Surgery.

Pediatrics

SUR 5300. Pediatric Surgery
Location: ETMH
Enrollment: 1 Minimum 2 Maximum
Prerequisites: SUR 500
Duration: One to Two Months
Months Offered: July through June
Pediatric Surgery Elective is offered to those completing the Surgery Core. Designed to introduce the student to the fundamentals involved in the Clinical Care of the Pediatric Surgical patient. (Dr. Charles Howell)

Thoracic and Cardiac Surgery

SUR 5325. Thoracic and Cardiac Clerkship (Special Elective)
Location: MCG Hospital, VAMC
Enrollment: 2 Max (VA 1 MCG 1)
Prerequisites: SUR 500
Duration: One Month
Months Offered: July through June
This elective is designed to provide additional experience in pathophysiology and treatment of intrathoracic disease. The student participates with the chief resident and/or attending thoracic surgeon in answer-

ing consultations regarding patients with potential thoracic surgical problems on other services. In addition, opportunities are available for experience in treatment of critically ill patients in the surgical intensive care unit. Responsibilities of the student are entirely separate from those taking the required subspecialty clerkship. (SUR 500) In addition, the student participates in all conferences, rounds and clinics. (Arrange through Faculty Coordinator: Dr. Christopher D. Stone).

SUR 5326. Thoracic and Cardiac Surgery Preceptorship (Special Elective–Green Sheet)
Location: To be provided at time of registration
Enrollment: 2 Max
Prerequisites: SUR 500 (to include rotation through Thoracic Surgery)
Duration: One Month
Months Offered: July through June

Arrangements may be made for a student to work with a private thoracic cardiac surgeon off campus or at another medical school to provide a student with additional experience in this field. This would provide a student an opportunity to observe methods of treatment of patients in hospitals other than MCG Hospital. (Arrange through Faculty coordinator: Dr. Christopher D. Stone).

Urology

SUR 5350. Urology Clerkship
Location: MCG Hospital or DDEAMC, Ft. Gordon
Enrollment: MCG Hospital–1 Min 4 Max; Ft. Gordon–1 Min 2 Max
Prerequisites: SUR 500
Duration: One Month
Months Offered: July through June

A four week patient care elective in general urology which can be taken at MCG Hospital (Max 4 students) or Dwight David Eisenhower Army Medical Ct., Fort Gordon, Georgia (Max 2 students). Emphasis is on evaluation of the urologic patient, both inpatient and outpatient. Students have an opportunity to assist on cystoscopies and several operative procedures. Opportunity to learn proper technique for urethral dilations, urethral catheterizations and prostatic evaluation is available. Students are assigned inpatients in rotation and perform histories and physical examinations upon them and then follow the patient daily including preoperative, operative and postoperative care. Faculty, residents and students make ward rounds and review all urologic X-rays daily. Informal conferences with faculty and/or residents are held covering such topics as G.U. malignancies, urolithiasis, prostatic disease, neurogenic bladder and complications of the catheter. (Dr. R. Lewis)

SUR 5351. Urology Off Campus Experience (Special Elective–Green Sheet)
Location: Provided at time of registration
Enrollment: 1 Minimum 3 Maximum
Prerequisites: SUR 500
Duration: One Month
Months Offered: July through June

A four week patient care offcampus elective which can be taken with a qualified urologist anywhere. The course content should about parallel SUR 571. (Dr. R. Lewis)

Plastic

SUR 5375. Plastic Reconstructive Surgery
Location: MCG Hospital
Enrollment: 1 Minimum 2 Maximum
Prerequisites: None
Duration: One to Two Months
Months Offered: July through June

The Plastic and Reconstructive Surgery Service is a clinical service involved with evaluation and management of wound healing problems, repair of nerves, tendons, vessels and bone and incorporating clinical material including tumors of the head and neck, injuries of the face and extremities, thermal burns and congenital abnormalities. The elective may be taken as a one month rotation to include participation in ward rounds, clinics and in the operating room. (Dr. K. Given)

SUR 5376. Plastic Reconstructive Surgery Off Campus (Special Elective–Green Sheet)
Location: Provided at time of Registration
Enrollment: 1 Minimum 3 Max per preceptor
Prerequisites: None
Duration: One to Two Months
Months Offered: July through June

The Plastic and Reconstructive Surgery Service is a clinical service involved with evaluation and management of wound healing problems, repair of nerves, tendons, vessels and bone and incorporating clinical material including tumors of the head and neck, injuries of the extremities, thermal burns and congenital abnormalities. The elective may be taken as a one month rotation to include participation in ward rounds, clinics and in the operating room. (Arrange through Dr. Given)

SUR 5377. Plastic Surgery Memorial Medical Center (Special Elective)
Location: Memorial Medical Ct., Savannah
Enrollment: Maximum 6
Prerequisites: Sur 500
Duration: One, Two or Three Months
Months Offered: July through June

The elective rotation on plastic and reconstructive surgery is designed to acquaint and familiarize the medical student with plastic surgery and its relation to the clinical care of patients. The emphasis will be on common plastic surgical problems with particular attention to plastic surgical solution to these problems. The rotation will include daily rounds on the plastic surgical service, daily sessions in the operating theater, and evaluations of patients both in the hospital and the private office setting. There will also be didactic sessions on various phases and aspects of plastic surgery during the rotation. The theme of the plastic surgery

rotation will be on basic wound care and soft tissue management. There will be opportunities to perform minor surgical procedures both in the operating room and in the emergency room. The student will be provided with basic plastic surgery text materials, a reading list as well as a comprehensive library of plastic surgery material, which will be available at his disposal. Additionally, daily clinical discussions are provided to ensure that the elective rotation provides a well rounded and thorough introduction to plastic and reconstructive surgery. (Drs. E. Daniel DeLoach, Lawrence E. Ruf, Scott W. Vann and John G. Sparrow)

Objectives: To give the student an overall broad experience with plastic and reconstructive surgery with specific emphasis on wound healing and management of soft tissues.

Evaluation: Oral.

Arrangements should be made through the Department of Surgery, Medical College of Georgia, and Memorial Medical Center, Surgical Education Department, Savannah, Georgia (912) 356-8598.

School of Nursing

Dean—Dr. Vickie A. Lambert
Associate Dean for Undergraduate Programs—Dr. Katherine E. Nugent
Associate Dean for Graduate Programs and Research—Dr. Virginia H. Kemp
Assistant Dean for Business Affairs—Dr. J. David Bass

Philosophy

The School of Nursing, as an integral part of the Medical College of Georgia, the health sciences university of the state of Georgia, conducts academic programs at the graduate and undergraduate levels, congruent with the purpose, mission and goals of the university. Faculty in the School of Nursing develop curricula incorporating the following beliefs:

- Each person is a unique human being who interacts with others and the environment. A family is broadly defined and may represent an individual's interaction with persons in the environment in the context of daily living. Across the life span, all persons possess worth and dignity and have unique capabilities for reasoning, adapting to change and advancing through developmental stages in order to maximize their individual potential.
- Health is a dynamic state of being and influences the interaction of the person within the family and larger community. It is viewed on a continuum of wellness/illness and is defined in accordance with cultural norms and the goals of individuals, families and communities.
- Environment is both internal and external and is the context through which individuals, families and communities grow and develop. As an individual and a member of a family and community, each person has a reciprocal relationship with the environment which affects health.
- Nursing is a practice-based discipline focused on caring and optimizing well-being throughout the life span. Through a dynamic relationship among research, education and practice, nursing is in a key position to promote change in the health-care delivery process.
- The professional nurse practices nursing by utilizing a broad knowledge base, exercising clinical judgment and being accountable to the profession and society. The nurse works independently and collaboratively with other health professionals to promote wellness and manage responses to illness. The diversity and complexity of our changing health care system require professional nurses who think critically and creatively in providing comprehensive health-care services.
- Learning is a lifelong dynamic process. The student's life experiences, educational and professional goals, as well as the requirements for professional nursing, are incorporated into the teaching/learning process. This process, which enhances the learner's acquisition of professional knowledge, skills and attitudes, involves interaction between the learner and teacher with mutual responsibility and accountability. Faculty serve as facilitators and models of competence in nursing practice.
- The undergraduate program prepares the baccalaureate graduate for general professional nursing practice and leadership roles. Related course work in the sciences and humanities provides a foundation and/or enhancement of the professional nurse's education.

Accreditation

The School of Nursing is accredited by the National League for Nursing and is a member agency of the Council of Baccalaureate and Higher Degree Programs. Please contact the Deputy Director NLNAC, 350 Hudson Street, New York, NY, 10014, 212/989-9393 as a resource for program information.

The baccalaureate program is also approved by the Georgia Board of Nursing. Graduates are eligible to take the state licensing examination. Successful completion of the examination entitles the nurse to legally practice nursing using the title "registered nurse" (R.N.).

Facilities, General Education and Professional

The general facilities of MCG combined with those of Augusta College offer excellent opportunities for a balanced program of liberal and professional education in the bachelor and master's program.

In addition to facilities for instruction as listed in the General Information section of this catalog, the School of Nursing utilizes health-care institutions, including Department of Veterans Affairs Medical Center, University Hospital, Augusta Regional Hospital, St. Joseph Hospital, Department of Human Resources, nursing homes, day and nursery schools, and other community agencies selected based on their contribution to the student's applying knowledge and developing skills related to continuity of patient care, health-care services and total health planning for individuals, families and communities.

The School of Nursing at Athens (SONAT) offers the complete B.S.N. program. Clinical facilities utilize a wide variety of health-care settings in primary, secondary and tertiary care, including Athens Regional Medical Center, St. Mary's Hospital, University Health Service, Department of Human Resources, day care centers, schools, nursing homes and many other community health-related agencies.

Students enrolled in courses on both campuses may be required to travel to Atlanta, Augusta or other surrounding areas for community experiences.

Fees and Expenses

See the General Information section of this catalog for matriculation, other general fees and dormitory housing costs.

Estimated additional expenses and fees for nursing students include: books and supplies—$300 to $600 per academic year; uniforms—junior year, $135 and senior year, $45; other expenses, e.g. (National Board fees, equipment, professional insurance, etc.)—junior year, $85, senior year, $180.

Current information on estimated costs for personal expenses, transportation, and off-campus housing can be obtained from the Office of Academic Admissions.

Financial Aid and Employment Opportunities

The Student Financial Aid Bulletin may be obtained by writing to the Financial Aid Office. A limited number of part-time employment opportunities are available through the MCG Personnel Office.

An application form on which you may apply for any of the programs listed in the brochure may be obtained by writing the Financial Aid Office.

Employment opportunities for nursing students are available in local health-care facilities in Augusta, including MCG Hospital and Clinics, University Hospital, St. Joseph Hospital and Augusta Regional Hospital. Nursing students also have opportunities for employment in hospitals in Athens.

Student Organizations and Activities

Students in the School of Nursing participate in the social, cultural and student development activities and organizations at the Medical College of Georgia.

An honor society was organized in 1969. It was chartered as Beta Omicron Chapter, Sigma Theta Tau, Inc., 1974.

In addition to the regular activities at the university, students in nursing may belong to

class organizations and the Georgia Association of Nursing Students.

Non-Academic Exclusion

Any student may be denied permission to continue in the School of Nursing if in the opinion of the faculty, the student's knowledge, character or mental or physical fitness cast grave doubts concerning potential capabilities as a nurse.

The Bachelor of Science in Nursing Program

Outcomes

Upon completion of the Baccalaureate Program, the graduate will:

1. Deliver safe, comprehensive nursing care to individuals, families, and communities.
2. Demonstrate accountability in nursing practice.
3. Demonstrate critical thinking and decision making in health care situations.
4. Collaborate with members of health care teams and relevant publics to promote wellness and facilitate optimal health.
5. Seek knowledge as a life-long learner to promote professional growth.
6. Demonstrate leadership and management skills in a beginning professional nursing practice.

Admission Criteria

- Scholastic Aptitude Test (SAT) or American College Testing (ACT) scores.
- Cumulative GPA, with some preference given for outstanding grades in courses supportive to nursing.
- Completion of all prerequisite course work.
- Preference to Georgia residents.
- Personal interview, if requested by the school.
- References.
- High school graduation or its equivalent.

Application Procedures

Application forms with instructions for completing admission procedure may be obtained from the Office of Academic Admissions. Application for each entering student must be filed (including all transcripts and other admission requirements) by March 1 for the summer semester admission. Early application is encouraged.

Transcripts from all colleges or other higher educational institutions are part of the application and are necessary to determine admission eligibility. SAT or ACT scores must be submitted and should either be requested from Educational Testing Service or American College Testing Service, or should appear on the student's college transcript (or other document submitted) for undergraduate applicants.

All completed applications received before the stated deadlines are given careful consideration; however, not all applicants are admitted.

Technical Standards for Admission to and Retention in the Undergraduate Program

A candidate for the B.S.N. degree must have four varieties of abilities and skills: observation, communication, motor and behavioral. Reasonable accommodations may be made for some disabilities. However, a candidate is expected to perform reasonably independently.

1. *Observation:* A candidate must be able to observe a patient/client accurately. Examples of observation include listening to heart and breath sounds, visualizing the appearance of a surgical wound, detecting the presence of a foul odor and palpating an abdomen.
2. *Communication:* A candidate must be able to communicate effectively with patients/clients and other members of the health-care team. He must be able to interact with patients/clients and other members of the health-care team to obtain information, describe patient situations and perceive non-verbal communication.
3. *Motor:* A candidate must have adequate motor function to effectively work with nursing problems and issues and carry out related nursing care. Examples of nursing

care include ambulating and positioning patients; cardiopulmonary resuscitation; administering intravenous, intramuscular, subcutaneous and oral medications; applying pressure to stop bleeding; opening an obstructed airway; and patient/client daily hygiene care.

4. *Behavioral:* A candidate must have the emotional health required to maximize his/her intellectual abilities. Candidates must be able to tolerate physically taxing work loads and to function effectively during stressful situations. He/she must be able to adapt to ever-changing environments, displaying flexibility, interaction skills and ability to function in the case of uncertainty that is inherent in a clinical situation involving patients/clients.

Non-Degree Applicants

A student seeking to enroll for nursing courses as a special student, non-degree seeking, should contact the Office of Academic Admissions for additional information and an application.

Transfer Credit

Only science and math courses with a grade of C or better will be accepted for transfer into the B.S.N. program. Any credit which is more than 10 years old or from unaccredited institutions is subject to validation to the satisfaction of the faculty. Information regarding the options for this validation may be obtained from the School of Nursing, Office of Recruitment, Advisement and Records. Applicants transferring general education credit not earned in a unit of the University System of Georgia are required to meet the general requirements of the core curriculum of the University System of Georgia.

School policy permits completion of certain subject exams offered through the College Level Examination Program (CLEP) and the American College Testing-Proficiency Examination Program (ACT-PEP) to be accepted for credit in the core curriculum.

Immunizations

In addition to the immunization policy listed in the general information section of this catalog, students must have HBV immunizations completed before beginning the School of Nursing program; students not completing HBV series must sign a disclaimer.

Transfer Information for R.N Applicants

Registered nurse students, graduating from an N.L.N. accredited associate degree nursing program or diploma nursing program will be eligible to transfer into the RN/BSN program offered on the Augusta campus, Athens campus and Gordon College (Barnesville, Ga.) in the fall. Prior to enrolling, RN students must complete the 90 quarter hours of required core curriculum with a 3.0 transfer of G.P.A. Upon successful completion of 16 hours of MCG nursing courses fall quarter, equivalent credit for previous nursing courses of 45 hours will be awarded.

University System and Legislative Examination Requirements

All undergraduate students are required to meet Board of Regents and legislative examination requirements. These exams include the Regents Testing Program Examination, and the examinations of the Georgia Constitution and history and the U.S. Constitution and history.

Details regarding these required exams are published in the General Information section of this catalog and should be carefully read and understood by all applicants. CLEP exams do not meet these requirements.

Core Curriculum Requirements

All bachelor's-degree students must complete at least 60 semester hours of core curriculum (or general education) courses in accordance with the Board of Regents requirements. The core curriculum for School of Nursing students is presented below.

	Semester Hours
*Essential Skills**	*9*
English Composition I	3
English Composition II	3
College algebra, mathematical modeling, trigonometry, pre-calculus or calculus	3

	Semester Hours
*Institutional Options***	*4–5*
Introduction to Computers	
Critical Thinking	
Creative Writing	
Ethics	
Health and Wellness	
Statistics	
Economics	
Speech	
Technical/Scientific Writing	
Any approved guided elective from Area F	

	Semester Hours
*Humanities and Fine Arts***	*6*
Ethics	
Fine and Applied Arts	
Foreign Language	
Speech, Oral communications	
World literature	
Philosophy	
Drama, Art or Music Appreciation	
Logic	
Electives in Humanities and fine Arts	

	Semester Hours
*Science, Mathematics and Technology**	*10-11*
One eight-hour laboratory course sequence in either chemistry or physics and an additional course in science, mathematics or technology.	

	Semester Hours
*Social Sciences**^	*12*
United States History	
United States government	
Psychology	
Sociology	
Anthropology	
Group Process	
Human Development	
Social Problems	
Racial and Ethnic Minorities	

	Semester Hours
*Courses Appropriate to the Major**	*18*
Area F consists of 18 hours of lower-division (1000- and 2000-level) courses related to the program of study or prerequisite to courses required in the major.	
REQUIRED:	
Anatomy and Physiology	8
Microbiology	4
Applied Statistics+	3+
Guided electives from sociology, psychology or human growth and development	3

*These courses must be completed prior to beginning the program.

**All core courses must be completed with a satisfactory grade before a nursing student begins his senior year. If a student planning to transfer to MCG from another school in the University System of Georgia has completed this area with courses taken at that USG institution or at another institution from which MCG accepts transfer credit, MCG will accept the area as satisfied. A student planning to transfer from a school not in the University System of Georgia should choose courses from those listed.

^A political science course including American government is acceptable.

+If this is taken in another area of the core, the hours would be available to be taken in guided electives.

Bachelor of Science in Nursing Curriculum

The baccalaureate curriculum plan specifies required courses and sequence in each of the four years of the B.S.N. program. Students may transfer in after two years of general preparatory work elsewhere. **Students are accepted at the junior level only.** A minimum of 30 semester hours of nursing course work must be earned in residence. The curriculum focuses on the knowledge and practice of nursing and draws on relevant arts, sciences and the humanities.

All undergraduate nursing students will take the courses listed below plus four credit hours of electives, in addition to the general education core requirements, to complete B.S.N. degree requirements. The nursing courses are taken in sequence beginning the junior year. In the junior and senior years, students will concentrate study in nursing theory and practice and continue study in general education. **Students must complete their core curriculum courses prior to beginning their senior year in nursing.**

Summer Semester—Junior Year		*Credit Hours*
NUR 3100	Principles of Professional Nursing Practice	6
	Total	*6*

Fall Semester		*Credit Hours*
NUR 3101	Foundations I: Concepts of Professional Nursing Practice	2
NUR 3102	Pathophysiology and Pharmacology I	3
NUR 3103	Lifespan I: Nursing Care of the Beginning Family	5
NUR 3104	Lifespan II: Nursing Care of the Young Family	5
	Total	*15*

Spring Semester		*Credit Hours*
NUR 3201	Foundations II: Health Care Environments	2
NUR 3202	Pathophysiology and Pharmacology II	3
NUR 3203	Lifespan III: Nursing Care of the Middle Family	5
NUR 3204	Lifespan IV: Nursing Care of the Mature Family	5
	Total	*15*

Fall Semester—Senior Year		*Credit Hours*
NUR 4301	Foundations III: Impact of Research and Legal/Ethical Issues on Professional Nursing Practice	3
NUR 4302	Professional Nursing Management of Individuals and Families Experiencing Complex Health Problems	9
NUR	Elective	3
	Total	*15*

Spring Semester		*Credit Hours*
NUR 4401	Foundations IV: Health Care Leadership, Management and Partnerships in Community Based Care	3
NUR 4402	Professional Nursing Practice	9
NUR	Elective	3
	Total	*15*
	Program Total	**60**

Academic Eligibility and Progression Standards

Students in the baccalaureate nursing program must attain a cumulative GPA of 2.0 in all residence work to enter the senior year. A grade of C or better is required in *all undergraduate nursing courses (designated NUR). In order to progress, students must achieve a minimum of C in each course identified as prerequisite.*

Student earnings grades of D, F or WF in a single nursing course may repeat the course one time. Students earning grades of D, F or WF the second time the course is taken, will be academically dismissed. Upon notification of any grade of D, F or WF, the student is required to meet with the Associate Dean addressing progression in the nursing program must be signed by the student.

Students may repeat no more than one nursing course during one enrollment at the Medical College of Georgia School of Nursing. **At the time of the second failure in a nursing course, the student is academically dismissed.** A student may apply for readmission one year following dismissal, in accordance with standard application procedures.

Dean's List and Honors

Qualifying undergraduate students may be design-ated for Dean's List and/or graduation with honors. Qualifications are stated in the MCG General Information section of this catalog.

B.S.N. Graduation Requirements

In addition to the undergraduate graduation requirements specified in the MCG General Information section of this catalog, the follow-

the B.S.N. degree:

1. A grade of C or better for all undergraduate courses designated as NUR.
2. A MCG cumulative grade point average of 2.0 for all courses in residence.
3. Completion of at least 30 semester hours in residence.

Course Descriptions

Numbers in parenthesis are lecture-clinic-lab-credit hours. The unit of credit is the semester hour which equals 55 minutes of classwork per week for one semester or its equivalent form of instruction. The unit of credit for clinical is based on a 1:3 clock hour/credit ratio per week for one semester. Hours designated as clinical may include laboratory experiences.

NUR 3100. Principles of Professional Nursing Practice (4-0-6-6)

Prerequisite: Junior-level status in School of Nursing.

Introductory course in health assessment and beginning principles of nursing care. Didactic classes and lab experiences provide a foundation for professional nursing knowledge and practice. Strategies for health assessment, promotion, and basic provision of nursing care emphasized.

NUR 3101. Foundations I: Concepts of Professional Nursing Practice (2-0-0-2)

Prerequisite: Junior-level status in School of Nursing.

Development of professional nursing practice. Nurses' professional roles, professional values, and standards presented. Historical development of the nursing profession analyzed. Emphasis on critical thinking, problem-solving, decision-making models, and the contribution of theory to nursing practice. Professional communication skills and group dynamics examined.

NUR 3102. Pathophysiology and Pharmacology I (3-0-0-3)

Prerequisite: Acceptance to School of Nursing.

Introduction to the pathophysiological basis of illness and the basic principles of clinical pharmacology. Focuses on compromises in the body's ability to meet its physiological needs integrated with nursing-based pharmacologic interventions in response to these compromises.

NUR 3103. Lifespan I: Nursing Care of the Beginning Family (3-6-0-5)

Prerequisite: NUR 3100; fall semester concurrent with NUR 3101, NUR 3102; spring semester concurrent with NUR 3201, NUR 3202.

Examination of the health and wellness activities of individuals and their families from birth to age 20. Emphasizes theories regarding beginning families and child-rearing, well-child assessment, and common health problems in children and adolescents. Explores compromises to physical, social and mental health common during these ages and the impact of these compromises on the individual and family are explored. Professional nursing activities that promote and restore optimal health/wellness are the focal points for didactic and clinical experiences. Through the use of various problem-solving methods, students can apply didactic information in actual patient situations and will be guided in bridging nursing theory and practice and in making decisions regarding nursing care. Clinical activities occur in a myriad of nursing practice settings which are both hospital and community-based.

NUR 3104. Lifespan II: Nursing Care of the Young Family (3-6-0-5)

Prerequisite: NUR 3100; fall semester concurrent with NUR 3101, NUR 3102; spring semester concurrent with NUR 3201, NUR 3202.

Examines the health and wellness activities of individuals and their families from age 20 to 45. Lifespan relevant issues such as childbearing, parenting roles, family theory, individual development and common health problems in young adulthood. Explores compromises to physical, social and mental health common during these ages and the impact of these compromises on the individual and family. Professional nursing activities that promote and restore optimal health/wellness are the focal points for didactic and clinical experiences. Through the use of various problem-solving methods, students can apply didactic information in actual patient situations and will be guided in bridging nursing theory and practice and in making decisions regarding nursing care. Clinical activities occur in a myriad of nursing practice settings which are both hospital- and community-based.

NUR 3201. Foundations II: Health Care Environments (2-0-0-2)

Prerequisite: NUR 3100, NUR 3101.

Examines the rapidly evolving field of health care and the central role of nurses as health care providers. Introduces community-based nursing practice encompassing all health care environments. Topics include health care along a continuum, health care structures and the influence of information-driven and outcomes-based health care systems. Nursing practice derived from national, regional and local health priorities are central points for discussion. Explores trends that influence health and choices regarding health care. Students participate in learning opportunities involving analysis of practice-related issues and forecasting of trends in U. S. health care.

NUR 3202. Pathophysiology and Pharmacology II (3-0-0-3)
Prerequisite: NUR 3102.

Continued introduction to the pathophysiological basis of illness and the basic principles of clinical pharmacology. Focuses on compromises in the body's ability to meet its physiological needs integrated with nursing-based pharmacologic interventions in response to these compromises.

NUR 3203. Lifespan III: Nursing Care of the Middle Family (3-6-0-5)
Prerequisite: NUR 3100; fall semester concurrent with NUR 3101, NUR 3102; spring semester concurrent with NUR 3201, NUR 3202.

Examines the health promotion and wellness activities of those age 45-65. Explores compromises to physical, social and mental health common during this age period and the impact on the individual and family. Professional nursing activities that promote and restore optimal health/wellness are focal points for didactic and clinical experiences. Clinical activities occur in a myriad of nursing practice settings, which are both hospital- and community-based.

NUR 3204. Lifespan IV: Nursing Care of the Mature Family (3-6-0-5)
Prerequisite: NUR 3100; fall semester concurrent with NUR 3101, NUR 3102; spring semester concurrent with NUR 3201, NUR 3202.

Examines the health promotion and wellness activities of individuals and their families age 65 and older. Explores compromises to physical, social and mental health common during this age period and the impact on the individual and family. Focuses on lifespan-relevant issues such as loss, grief, caregiver roles and community resources. Professional nursing activities that promote and restore optimal health/wellness are focal points for didactic and clinical experiences. Clinical activities occur in a myriad of nursing practice settings, including hospital, extended care, home and community settings.

NUR 4031. (2-0-0-3)
Prerequisite: Completion of fall and winter senior-level courses.

Focuses on principles of leadership and management of professional nursing and enables students to synthesize and integrate learning experiences with contemporary practice. Incorporates a precepted learning model of nursing in which the student works with a nursing leader. In addition, the organization, sociopolitical, economic, ethical and legal context of U. S. health care delivery is examined as a basis for understanding professional practice.

NUR 4032. (2-0-0-2)
Prerequisite: Completion of all required nursing courses and concurrent with NUR 4031 and NUR 4033.

Provides a forum to explore professional nursing issues through leadership and participation in a group setting. Student learning needs guide the seminars through problem-based learning utilizing reality-based situations in professional nursing practice. Seminar emphasizes lifelong learner and accountability for the development of students' professional practice.

NUR 4033. (0-16-0-5)
Prerequisite: Completion of all other required nursing courses and concurrent with or following NUR 4031 and NUR 4032.

Provides comprehensive clinical experiences to assist in the transition from student to professional nurse. Enables student to synthesize and integrate previous learning experiences and apply them in clinical practice settings. Student moves to a self-directed interdependent position as a beginning professional nurse on the health care team. Student works directly with an experienced nurse preceptor during the clinical experience. Goals include autonomy, leadership and management skills for client/patient populations.

NUR 4301. Foundations III: Impact of Research and Legal/Ethical Issues on Professional Nursing Practice (3-0-0-3)
Prerequisite: Senior-level status in School of Nursing.

Explores legal/ethical issues in nursing and the importance of research to nursing practice. Emphasizes preparation for dealing with legal and ethical problems faced in day-to-day nursing situations. Examines the research process as it applies to nursing practice. The course helps develop critical-thinking skills while analyzing case studies involving legal/ethical dilemmas and critiquing published nursing research.

NUR 4302. Professional Nursing Management of Individuals and Families Experiencing Complex Health Problems (3-18-0-9)
Prerequisite: Junior-level courses.

Focuses on health promotion, restoration and rehabilitation through application of principles of nursing practice with individuals and families experiencing complex health problems. Emphasizes continuity of care, collaboration with the health care team and mobilization of resources for individuals and families with complex physical, mental and social health problems. Clinical experiences occur in a variety of settings.

NUR 4401. Foundations IV: Health Care Leadership, Management and Partnerships in Community-Based Care (2-3-0-3)
Prerequisite: Junior-level courses.

Emphasizes knowledge and skills needed to promote health care of population groups. Examines the impact of changes of health care on aggregate groups. Theories, concepts and models are presented and students can develop competencies of leadership and management needed to collaborate with community members, health care providers, agencies and resources in the community. Helps students develop and apply creative and effective roles for managing and leading in the delivery of nursing care.

NUR 4402. Professional Nursing Practice(3-18-0-9)
Prerequisite: Junior-level courses and fall semester senior-level courses.

Focuses on the principles of professional nursing practice and helps student to synthesize and integrate previous learning experiences. Provides comprehensive clinical experiences to assist in the transition from student to professional nurse.

NUR 4500. Independent Study (Variable)

NUR 4501. Independent Study (Variable)

NUR 4602. Substance Abuse Nursing (3-0-0-3)
Overview of substance abuse and dependency as a major health problem with a central focus on nursing issues. Emphasizes nursing care roles and responsibilities of these clients in the hospital and community. Covers consequences of abuse and dependency on family members and special populations. Reviews commonly abused substances and their effects. Students examine their personal attitudes toward substance abusers and substance-abuse disorders as health problems. Reviews contemporary treatment philosophies to help clients achieve and maintain recovery. Students attend community-based support groups for the client and family. Use of the Internet may be required.

NUR 4603. Nutrition in Clinical Nursing (3-0-0-3)
Prerequisite: Completion of NUR 3100.

Focuses on nutritional needs of the client as related to alterations in health and/or environment. Analyzes influences of sociocultural and biophysical factors that impact nutrition. Client's nutrition critiqued to assess needs and make referrals when appropriate.

NUR 4605. Issues in Women's Health Care (3-0-0-3)
Introduction and bi-weekly seminars on society's impact on women's health and women's common health concerns. Advocacy approach to women and their health. Discuss research issues related to women's health.

NUR 4606. Perioperative Nursing (2-3-0-3)
Prerequisite: Completion of all junior-level courses.

Introduction to the roles of the professional nurse in the perioperative setting. Students can implement the nursing process within preoperative, intraoperative, postoperative and post-recovery phases of patient's surgical experience.

NUR 4607. Nursing Care of the Client with Dysrhythmia (3-0-0-3)
Prerequisite: Successful completion of NUR 3102.

Provides comprehensive understanding of normal and abnormal cardiac electrophysiology. Builds on material from previous pathophysiology course when discussing pathology related to arrhythmias. Emphasizes nursing interventions specific to treating clients with arrhythmias. Learning activities stimulate critical-thinking skills and appreciation for caring for clients with dysrhythmias.

NUR 4608. Concepts of Rural Nursing (3-0-0-3)
Focuses on organization and functioning of nursing within rural health delivery systems. Emphasizes social, economic and cultural variables that affect rural health, and responses of rural communities, health agencies and hospitals to these health care needs. Students conduct a rural community assessment and develop case studies and care plans for patients with long-term health care problems. Comprehensive field trip is included with presentations from a wide variety of rural health care providers.

NUR 4609. Nursing Management of the Patient with HIV Disease (3-0-0-3)
Prerequisite: NUR 3100.

Focuses on nursing management of the patient with HIV disease. Enables beginning nursing student to identify early prodromal signs of HIV disease and understand management and treatment of opportunistic infections, identify psychosocial problems and interventions associated with HIV disease, modes of transmission and safer sex behaviors. Covers historical issues of HIV disease and emerging pharmacologic treatment strategies.

NUR 4610. School Health Nursing (3-0-0-3)
Prerequisite: Completion of NUR 3100.

Focuses on health needs of school health population including students, parents and faculty. Emphasizes aggregate approach to health promotion and disease prevention, including primary and secondary prevention measures. Students use health assessment and health education principles to meet the selected needs of individuals, families and groups.

NUR 4611. Entrepreneurship in Nursing (3-0-0-3)
Explores entrepreneurship nursing career. Eemphasizes developing, implementing, and maintaining a business including: self-discovery and assessment; entrepreneurial and business concepts; and information on political, business and professional trends that affect entrepreneurs.

NUR 4613. Assessment of Parent-Child Interactions (2-3-0-3)
Prerequisite: Completion of all junior level courses.

Introduction to quantitative and qualitative methods used to assess vulnerability of infants, children and their families. Includes clinical application of assessment processes.

NUR 4614. Principles of Oncology Nursing (3-0-0-3)
Prerequisite: Junior or senior-level status.

Introduction to principles of oncology nursing. Includes pathophysiology, treatment modalities, screening modalities, side effects management, care of persons with solid tumor cancers and utilization of the nursing process in caring for adults with cancer.

NUR 4615. Complementary Healing Modalities (3-0-0-3)

Prerequisite: Junior-level status.

Explores a wide variety of complementary health care measures such as herbal/therapy, acupressure and reflexology. Students study ways to understand and work with complementary healers and practitioners. Covers legal and ethical problems. Analyzes complimentary modalities including home remedies to determine their efficacy.

NUR 4616. Externship: Care of the Ill Child and the Family (2-3-0-3)

Prerequisite: Completion of all junior-level courses.

Work-study course provides extensive clinical opportunities regarding hospitalized children and their families. Students apply knowledge and nursing skills in selected care settings while working as a patient care assistant 32 hours a week. Didactic instruction focuses on growth, developmental and pathophysiologic issues related to common childhood disorders.

NUR 4617. Adult Nursing Externship (2-3-0-3)

Prerequisite: Completion of all junior-level courses.

Unique learning opportunity to build on principles of nursing basic to caring for adults with various health alterations. Explores selected concepts related to caring for adult patient and uses nursing process to plan care of patient and family; builds on knowledge acquired in the junior year. Student, employed as a patient care assistant, will demonstrate responsible work-role behaviors in the work setting.

NUR 4618. Critical Care Nursing (3-0-0-3)

Prerequisite: Completion of all junior-level courses.

Theoretical and functional base for complex management of adults with complicated medical and surgical problems treated in critical-care settings. Overview of the practice of critical-care nursing; tools needed for arrhythmia interpretation, hemodynamic monitoring, ventilatory management and intracranial pressure monitoring; management of cardiopulmonary arrest; and related nursing management.

NUR 4619. Externship: Care of the Family During the Perinatal Experience (2-3-0-3)

Prerequisite: Completion of all junior-level courses.

Expands knowledge base of child-bearing processes, neonatal period of family dynamics and nursing process. Opportunities are available to increase assessment, communication and crisis intervention skills while employed as a patient care assistant for 32 hours a week. Investigates current trends and issues relevant to deviations from normal child-bearing process or the normal neonatal period.

NUR 4621. Principles of Oncology Nursing (3-9-0-6)

Prerequisite: Completion of all junior-level courses.

Introduction to principles of oncology nursing. Includes pathophysiology, treatment modalities, screening modalities, side effects management, care of persons with solid tumor cancers and utilization of the nursing process to care for adults with cancer in inpatient and outpatient oncology settings. Each clinical experience is precepted by chemotherapy certified registered nurse or an oncology certified registered nurse (OCN, AOCN).

NUR 4995. Professional Issues (3-0-0-3)

Prerequisite: Admission to the RN-BSN Program.

Focuses on transition to professional practice. Analyzes issues affecting nursing and health. Individual philosophy, goals and career strategies explored.

NUR 4996. Synthesis in Professional Nursing (4-15-0-9)

Prerequisite: Completion of fall semester courses, RN-BSN or RN-MSN/MN Program.

Focuses on clinical application of principles of professional nursing practice. Students can synthesize and integrate theory by assuming the professional role. Concepts related to leadership, management, organizational behavior and budgeting presented.

NUR 4997. Health Appraisal and Promotion Activities for the Individual, Family and Community (4-6-0-6)

Prerequisite: Admission to RN-BSN or RN-MSN/MN Program.

Focuses on assessment and health promotion for individuals, families and community. Community-based clinical experiences allows the student to demonstrate the integration of knowledge and clinical skills.

Appendix

Appendix A

General Administration

President
Francis J. Tedesco

Senior Vice President for Academic Affairs
Barry D. Goldstein

Senior Vice President for Clinical Activities and Dean of the Schools of Medicine and Graduate Studies
Darrell G. Kirch

Senior Vice President for Fiscal Affairs and Planning
J. Michael Ash

Vice President for Business Operations
Gerald W. Woods

Vice President for Research
J. Malcolm Kling (Interim)

Vice President for Special Clinical Initiatives
Vernon C. Spaulding

Vice President for Student Affairs
James B. Puryear

Vice President for University Advancement
James B. Osborne

Executive Director, MCG Hospital and Clinics
Patricia K. Findling-Sodomka

Chief Information Officer
Dale M. Chernich

Senior Legal Advisor
Clayton D. Steadman

Dean, School of Allied Health Sciences
Biagio J. Vericella

Dean, School of Dentistry
David R. Myers

Dean, School of Nursing
Vickie A. Lambert

Appendix B

Full-Time/Part-Time Faculty*

Abdel-Latif, Ata A., Regents' Professor, Biochemistry and Molecular Biology; Professor, Graduate Studies. IL Inst of Tech, PhD 1963; De Paul Univ, MS 1958; De Paul Univ, BS 1955. Appointed 08/01/67.

Abdelsayed, Rafik A., Assistant Professor, Oral Biology and Maxillofacial Pathology. IN Univ-Prdue Univ (Indnpls), DDS 1993; IN Univ-Prdue Univ (Indnpls), MS 1990; Univ of Cairo, BDS 1980. Appointed 07/01/96.

Abney, Thomas O., Professor, Physiology and Endocrinology; Professor, Graduate Studies; Professor, Biochemistry and Molecular Biology. Univ of GA, PhD 1972; Univ of GA, MS 1969; Univ of GA, BS 1966. Appointed 07/01/73.

Abraham, Edathara C., Professor, Biochemistry and Molecular Biology; Professor, Graduate Studies. Univ of Louisville, PhD 1971; Univ of Kerala, BS 1958. Appointed 07/01/74.

Adair, Steven M., Professor, Pediatric Dentistry. Univ of NC (Chpl Hl), DDS 1973; Univ of IA, MS 1976; Univ of NC (Chpl Hl), BS 1970. Appointed 08/01/90.

Adams, John B., II, Assistant Professor, Surgery. Emory Univ, MD 1988; Vanderbilt Univ, BA 1981. Appointed 07/01/95.

Adams, Lanier H., Assistant Professor, Family Medicine. Univ of Hlth Scis of Osteopthc Med, DO 1982; Univ of GA, BSPhr 1972. Appointed 07/13/95.

Adams, Robert J., Regents' Professor, Neurology; Professor, Pediatrics. Univ of AR for Med Scis, MD 1980; Univ of CO (Bldr), MS 1976; Snt Louis Univ, BS 1971. Appointed 07/01/85.

Ahmed, Rafique, Associate Professor, Medicine. Rajshahi Univ, MBBS 1978; Nagasaki Univ, PhD 1988. Appointed 07/01/95.

Akhtar, Rashid A., Professor, Biochemistry and Molecular Biology; Professor, Graduate Studies. Univ of London, PhD 1974; Panjab Univ, MS 1964; Panjab Univ, BS 1963. Appointed 07/01/77.

Albritton, T. Andrew, Associate Professor, Medicine. Univ of Auto de Guadalajara, MD 1980; Univ of GA, BS 1976. Appointed 10/01/89.

Ali, Nawab, Assistant Research Scientist, Biochemistry and Molecular Biology. Aligarh Muslim Univ, PhD 1987; Aligarh Muslim Univ, MPhil 1985; Aligarh Muslim Univ, MSc 1982; Aligarh Muslim Univ, BSc 1980. Appointed 08/01/97.

Ali, Sohail H., Instructor, Medicine. Univ of Karachi, MBBS 1983. Appointed 07/16/96.

Allen, Virginia R., Professor, Occupational Therapy; Professor, Graduate Studies. Univ of GA, EdD 1984; Med Col of GA, MHEd 1977; IN Univ (Bloomington), BS 1967. Appointed 09/01/73.

Allen-Noble, Rosie, Associate Professor, Cellular Biology and Anatomy. Rutgers St Univ (New Brwck), EdD 1991; Rutgers St Univ (Nwrk), MS 1974; Atl Univ, MS 1967; Albany St Col, BS 1960. Appointed 08/01/95.

Allison, Jerry D., Associate Professor, Radiology; Associate Professor, Radiologic Sciences; Associate Professor, Graduate Studies. Univ of FL, PhD 1978; Old Dominion Univ, MS 1974; NC St Univ, BS 1970. Appointed 09/14/78.

Allsbrook, William C., Jr., Associate Professor, Pathology; Associate Professor, Surgery. Univ of NC (Chpl Hl), MD 1970; Duke Univ, AB 1964. Appointed 07/01/80.

Altman, Roy E., Jr., Assistant Professor, Pathology. Univ of GA, PhD 1976; Univ of GA, MS 1968; Berry Col, BS 1965. Appointed 09/15/80.

Amin, Zahid, Assistant Professor, Pediatrics. Univ of Baluchistan, MBBS 1982. Appointed 07/01/98.

Anderson, Gail C., Associate Professor, Library. Univ of MI (Ann Arbor), AMLS 1970; Univ of MI (Flint), AB 1969. Appointed 12/01/78.

Anderson, Mark G., Assistant Professor, Medicine. Johns Hopkins Univ, PhD 1992; Univ of IL (Urbana), BS 1987. Appointed 07/01/96.

Angeid-Backman, Elin, Assistant Professor, Radiology. Univ of Chicago, MD 1988; Art Inst of Chicago, BFA 1979. Appointed 10/01/97.

Anna, David J., Assistant Professor, Mental Health/Psychiatric Nursing. Univ of TX Hlth Sci Ctr (Sn Ant), MSN 1977; St Univ of NY (Bflo), BSN 1971. Appointed 09/01/93.

Arazie, Joan C., Instructor, Radiologic Sciences. Med Col of GA, BS 1975; Med Col of GA, AS 1974. Appointed 11/15/84.

Arena, John G., Professor, Psychiatry and Health Behavior. St Univ of NY (Albany), PhD 1983; Adelphi Univ, BA 1978; Nassau Comm Col, AA 1976. Appointed 07/01/84.

Arnette, Ann H., Assistant Professor, Medical Technology; Assistant Professor, Graduate Studies. Med Col of GA, MHEd 1994; Erskine Col, BA 1972. Appointed 05/01/90.

* Note: File effective May 1, 1998, including those actions approved by the Board of Regents to take effect July 1, 1998.

Ashcraft, Deborah A., Assistant Professor, Pediatric Dentistry. Med Col of GA, DMD 1994. Appointed 11/14/96.

Attwood, John T.T., Assistant Professor, Medicine. Univ of Dublin (Trinity Col), MBBCh 1989; Univ of Dublin (Trinity Col), BA 1986. Appointed 07/01/98.

Aumuller, Scott C., Assistant Professor, Anesthesiology. Col of Osteopthc Med & Surg, DO 1985; Univ of AZ, BA 1978. Appointed 02/01/98.

Bailey, Joseph P., Jr., Charbonnier Professor, Medicine. Med Col of GA, MD 1955; Mercer Univ, MEd 1952; Mercer Univ, BS 1952. Appointed 07/01/61.

Baisden, C. Robert, Professor, Pathology. West VA Univ, MD 1965; West VA Univ, AB 1961. Appointed 03/01/79.

Baker, Philip S., Associate Professor, Oral Rehabilitation. Loyola Univ, DDS 1978; Regis Col, BS 1974. Appointed 05/15/98.

Baker, R. Randall, Assistant Professor, Respiratory Therapy; Assistant Professor, Anesthesiology; Assistant Professor, Graduate Studies. Univ of AL (Birmnghm), PhD 1991; John Carroll Univ, BS 1977. Appointed 05/01/93.

Barber, Bart O., Assistant Professor, Anesthesiology. Univ of Osteopthc Med & Surg, DO 1992; Univ of FL, BS 1985; Univ of South FL, BA 1980. Appointed 11/17/97.

Barenie, James T., Professor, Pediatric Dentistry. IN Univ-Prdue Univ (Indnpls), DDS 1967; Univ of Rochester, MS 1973. Appointed 08/18/77.

Bari, Shahnaz, Assistant Professor, Anesthesiology; Assistant Professor, Adult Nursing. Univ of Karachi, MBBS 1983; Pak Emp Coop Hou Soc Col for Wom, FSc 1976. Appointed 07/01/93.

Barman, Scott A., Associate Professor, Pharmacology and Toxicology; Associate Professor, Graduate Studies. Univ of ND, PhD 1986; Univ of ND, MS 1983; Muhlenberg Col, BS 1980. Appointed 09/01/90.

Barnard, Laura L., Instructor, Physician Assistant. Med Col of GA, BS 1986. Appointed 02/01/92.

Barney, Rayvelle A., Assistant Professor, Family Medicine. Georgetown Univ, MD 1992; Johns Hopkins Univ, BA 1987. Appointed 07/01/98.

Barrett, J. Michael, Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Tulane Univ, PhD 1973; Univ of North CO, BA 1968. Appointed 07/01/77.

Barrett, John T., Jr., Assistant Professor, Radiology. Univ of SC (Columbia), PhD 1981; Univ of SC (Columbia), MD 1985; Tulane Univ, BS 1976. Appointed 09/01/92.

Barrow, Ericka M., Instructor, Occupational Therapy. Med Col of GA, BS 1993. Appointed 01/05/98.

Bassali, Reda W., Assistant Professor, Pediatrics. Univ of Alexandria, MBChB 1979. Appointed 07/01/94.

Bates, Deborah J., Assistant Professor, Emergency Medicine. Med Col of GA, MD 1976; Agnes Scott Col, BA 1972. Appointed 09/01/85.

Bates, William B., Assistant Professor, Radiology. Med Col of GA, MD 1976; Univ of GA, MA 1972; Univ of GA, BS 1970. Appointed 05/01/81.

Bauza-Armstrong, Jose A., Assistant Professor, Radiology. Univ of PR, MD 1984; Boston Univ, BA 1980. Appointed 07/01/92.

Baxter, Suzanne D., Associate Professor, Pediatrics. TX Woman's Univ, PhD 1990; TX Woman's Univ, MS 1987; TX Christian Univ, BS 1981. Appointed 07/01/93.

Beall, Arthur C., Assistant Research Scientist, Medicine. Med Col of GA, PhD 1992; West GA Col, MS 1984; Valdosta St Col, BS 1979. Appointed 03/01/97.

Beall, Sharon P., Assistant Professor, Pediatrics. Med Col of GA, MD 1990; GA St Univ, MS 1986; GA St Univ, BSE 1984. Appointed 09/15/93.

Bechtel, Gregory A., Associate Professor, Community Nursing; Associate Professor, Graduate Studies. TX Woman's Univ, PhD 1986; Univ of SC (Columbia), MPH 1982; Univ of North TX, MS 1980; Valdosta St Col, BS 1977. Appointed 09/01/96.

Behr, Julia L., Instructor, Parent-Child Nursing. Med Col of GA, MSN 1992; Med Col of GA, BSN 1988. Appointed 01/14/93.

Behzadian, M. Ali, Instructor, Pharmacology and Toxicology. Univ of AZ, PhD 1984; Univ of AZ, MSc 1980; Univ of Teheran, BS 1970. Appointed 07/01/96.

Benjamin, John T., Professor, Pediatrics. Columbia Univ, MD 1966; Harvard Univ, BA 1962. Appointed 10/01/94.

Bennett, E. Gerald, Associate Professor, Mental Health/Psychiatric Nursing; Associate Professor, Graduate Studies. Univ of TX (Austin), PhD 1983; Case Wstrn Resv Univ, MSN 1977; Med Col of GA, BSN 1974. Appointed 07/01/83.

Bennett, James W., Professor, Pediatrics. Med Col of GA, MD 1946. Appointed 07/01/53.

Bentley, Gayle W., Instructor, Community Nursing. Med Col of GA, MSN 1989; Clemson Univ, BSN 1974. Appointed 01/01/93.

Berding, Christine B., Instructor, Adult Nursing. Med Col of GA, MSN 1992; Med Col of GA, BSN 1983. Appointed 09/01/92.

Berg, Gary W., Associate Professor, Medicine. Snt Louis Univ, MD 1972. Appointed 01/01/98.

Bergeron, Michael F., Assistant Professor, Pediatrics. Univ of CT, PhD 1993; Univ of CT, MA 1990; Central CT St Univ, BS 1985. Appointed 07/01/98.

Bergson, Clare M., Assistant Professor, Pharmacology and Toxicology. Yale Univ, PhD 1990; McGill Univ, BSc 1979. Appointed 12/01/97.

Bertrand, S. Leslie, Associate Professor, Surgery; Assistant Professor, Pediatrics. TX Tech Univ, MD 1980; Univ of TX (Austin), BA 1976. Appointed 12/01/85.

Betts, Eugene K., Professor, Anesthesiology; Professor, Pediatrics. Wake Forest Univ, MD 1968; Dickinson Col, BS 1964. Appointed 07/01/98.

Bhalla, Vinod K., Professor, Physiology and Endocrinology; Associate Professor, Biochemistry and Molecular Biology; Professor, Graduate Studies. Agra Univ, PhD 1968; Agra Univ, MS 1964; Agra Univ, BS 1962. Appointed 06/01/74.

Bhatia, Jatinder J. S., Professor, Pediatrics; Professor, Graduate Studies. Univ of Poona, MBBS 1975. Appointed 07/01/91.

Billingsley, Gary M., Instructor, Pediatrics. Med Univ of SC, MD 1984; Col of Charleston, BS 1978. Appointed 09/22/88.

Billiter, Cathy M., Instructor, Mental Health/Psychiatric Nursing. Med Col of GA, MSN 1997; Med Col of GA, BSN 1975. Appointed 09/01/97.

Billman, Michael A., Associate Professor, Periodontics; Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Associated Dental Sciences. OH St Univ, DDS 1976; George Washington Univ, MS 1983. Appointed 08/16/93.

Billue, Joyce S., Associate Professor, Community Nursing. Univ of GA, EdD 1986; Med Col of GA, MSN 1976; Med Col of GA, BSN 1974. Appointed 09/01/94.

Binet, Eugene F., Warren Professor, Radiology. Univ of MN (Twin Cities Campus), MD 1962; Col of Snt Thom, BS 1958. Appointed 07/01/87.

Bockman, Dale E., Professor, Cellular Biology and Anatomy; Professor, Graduate Studies. Univ of IL Med Ctr (Chicago), PhD 1963; CA St Univ (LA), MA 1958; Southwest MO St Col, BSEd 1956. Appointed 02/01/75.

Boedy, R. Frederick, Assistant Professor, Pediatrics. Univ of FL, MD 1978. Appointed 07/01/89.

Bollag, Roni J., Assistant Professor, Medicine; Assistant Professor, Cellular Biology and Anatomy; Assistant Professor, Graduate Studies. Yale Univ, PhD 1989; Yale Univ, MPhil 1987; PA St Univ, BS 1984. Appointed 01/01/94.

Bollag, Wendy B., Assistant Professor, Medicine; Assistant Professor, Cellular Biology and Anatomy; Assistant Professor, Graduate Studies. Yale Univ, PhD 1990; Yale Univ, MS 1988; PA St Univ, BS 1984. Appointed 07/01/93.

Bond, Gary C., Associate Professor, Physiology and Endocrinology; Associate Professor, Graduate Studies. Univ of KS, PhD 1970; Univ of KS, BS 1965. Appointed 09/01/76.

Borke, James L., Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Graduate Studies. IL Inst of Tech, PhD 1984; Northern IL Univ, MS 1977; Northern IL Univ, BS 1974. Appointed 07/01/93.

Boudewyns, Patrick A., Professor, Psychiatry and Health Behavior. Univ of WI (Milwke), PhD 1968; Univ of WI (Milwke), MS 1966; Drake Univ, BA 1962. Appointed 07/01/82.

Bowden, Talmadge A., Jr., Professor, Surgery. Med Col of GA, MD 1966; Univ of GA, BS 1962. Appointed 07/25/73.

Boyle, Joyceen S., Professor, Community Nursing; Professor, Graduate Studies. UT Tech Col (Salt Lk), PhD 1982; Univ of CA (Berkeley), MPH 1971; Brigham Young Univ, BS 1961. Appointed 06/13/88.

Bradley, Kathy P., Associate Professor, Occupational Therapy. Univ of GA, EdD 1991; Med Col of GA, MHEd 1980; Med Col of GA, BS 1975. Appointed 04/01/78.

Bradshaw, Martha J., Assistant Professor, Parent-Child Nursing. Univ of TX (Austin), PhD 1992; Univ of TX (Austin), MSN 1980; Baylor Univ, BSN 1970. Appointed 01/01/90.

Brann, Darrell W., Associate Professor, Physiology and Endocrinology; Associate Professor, Graduate Studies. Med Col of GA, PhD 1990; Henderson St Univ, BA 1984. Appointed 04/01/91.

Brannam, Larry A., Assistant Professor, Emergency Medicine; Assistant Professor, Pediatrics. Univ of AR for Med Scis, MD 1985. Appointed 07/01/96.

Bransome, Edwin D., Jr., Professor, Medicine; Professor, Physiology and Endocrinology; Professor, Graduate Studies. Columbia Univ, MD 1958; Yale Univ, AB 1954. Appointed 09/01/70.

Brooks, Steven E., Associate Professor, Ophthalmology; Associate Professor, Pediatrics. Johns Hopkins Univ, MD 1988; Dartmouth Col, AB 1984. Appointed 09/01/94.

Brophy, Colleen M., Associate Professor, Surgery; Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Univ of UT, MD 1983; Univ of UT, BS 1979. Appointed 07/01/93.

Brown, Dale F., Assistant Professor, Medicine. Med Col of GA, MD 1990; Univ of GA, BS 1985. Appointed 07/01/93.

Brown, Jerry L., Assistant Professor, Anesthesiology; Assistant Professor, Adult Nursing. KS Cty Col of Osteopthc Med, DO 1975; Wm Jewell Col, BA 1966. Appointed 07/01/88.

Brownell, George H., Professor, Biochemistry and Molecular Biology; Professor, Graduate Studies. Univ of SD, PhD 1967; Univ of SD, MA 1963; Univ of MN (Duluth), BA 1961. Appointed 07/01/67.

Browning, William D., Assistant Professor, Oral Rehabilitation. Univ of MI (Ann Arbor), DDS 1974; Univ of MI (Ann Arbor), MS 1991; Western MI Univ, BS 1970. Appointed 07/01/97.

Brucker, Paul J., Professor, Continuing Education and Health Communication; Professor, Allied Health Sciences. IN Univ (Bloomington), EdD 1969; IN Univ (Bloomington), MS 1965; Col of Wm & Mary, BA 1961. Appointed 09/01/69.

Brudno, D. Spencer, Associate Professor, Pediatrics; Associate Professor, Physiology and Endocrinology. Med Col of GA, MD 1977; Univ of VA, BS 1973. Appointed 09/01/85.

Brumund, Traci T., Assistant Professor, Pediatrics. Med Col of GA, MD 1994; GA Inst of Tech, BS 1990. Appointed 01/01/97.

Buccafusco, Jerry J., Professor, Pharmacology and Toxicology; Professor, Graduate Studies; Professor, Psychiatry and Health Behavior. Univ of Med & Dent of NJ, PhD 1978; Canisius Col, MS 1973; Snt Peter's Col, BS 1971. Appointed 10/01/79.

Buckner, Wendy S., Assistant Professor, Occupational Therapy; Assistant Professor, Graduate Studies. Med Col of GA, MHEd 1987; Cleveland St Univ, BS 1982; Cuyahoga Comm Col (Metro Campus), AS 1973. Appointed 07/01/87.

Budet-Bauza, Lynnette, Assistant Professor, Pediatrics. Univ of PR, MD 1984; Univ of PR, BS 1980. Appointed 07/01/92.

Bunting, Sheila M., Associate Professor, Community Nursing. Wayne St Univ, PhD 1992; Northern IL Univ, MS 1980; Univ of IL (Chicago Cir), BSN 1978. Appointed 09/01/97.

Bunyapen, Chantrapa, Assistant Professor, Pediatrics. Mahidol Univ, MD 1972; Mahidol Univ, BS 1970. Appointed 06/01/79.

Burch, Sandra E., Associate Professor, Radiology; Associate Professor, Radiologic Sciences. GA Inst of Tech, PhD 1993; Emory Univ, MMSc 1971; Aug St Univ, BS 1987; Emory Univ, BS 1970. Appointed 10/01/72.

Burgess, Russell E., Associate Professor, Medicine. Wake Forest Univ, MD 1974; Univ of NC (Chpl Hl), BA 1969. Appointed 05/01/80.

Burke, George J., Associate Professor, Radiology; Associate Professor, Radiologic Sciences. Univ of MD (Baltmr Prof), MD 1958; Univ of MD (Baltmr Prof), BS 1954. Appointed 11/01/89.

Burke, Mona S., Assistant Professor, Psychiatry and Health Behavior. Univ of MD (Baltmr Prof), MD 1964; Univ of MD (Baltmr Prof), BS 1960. Appointed 07/15/97.

Burton, Edward M., Associate Professor, Radiology; Associate Professor, Pediatrics. Univ of FL, MD 1971; Univ of Miami, BS 1967. Appointed 11/01/92.

Butler, Sharon W., Assistant Professor, Adult Nursing. Med Col of GA, MSN 1972; Med Col of GA, BSN 1970. Appointed 03/01/74.

Butterbaugh, Randy R., Associate Adjunct Professor, Respiratory Therapy. MS St Univ, EdD 1982; Ball St Univ, MA 1977; Manchester Col, BS 1976. Appointed 08/01/84.

Caldwell, R. William, Professor, Pharmacology and Toxicology; Professor, Graduate Studies. Emory Univ, PhD 1969; GA Inst of Tech, BS 1965. Appointed 12/01/87.

Caldwell, Ruth B., Professor, Cellular Biology and Anatomy; Professor, Graduate Studies; Professor, Ophthalmology. Memphis St Univ, PhD 1979; Memphis St Univ, MS 1976; Agnes Scott Col, BA 1964. Appointed 08/01/88.

Callahan, Leigh A., Assistant Professor, Medicine. Med Col of GA, MD 1984; Aug St Univ, BS 1980. Appointed 04/15/91.

Calle, Roberto A., Associate Professor, Medicine; Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Univ of PR, MD 1984; Univ of PR, BS 1980. Appointed 07/01/93.

Cameron, Patricia L., Instructor, Medicine. Yale Univ, PhD 1993; Gettysburg Col, BA 1983. Appointed 01/01/98.

Cameron, Richard S., Assistant Professor, Medicine; Assistant Professor, Cellular Biology and Anatomy; Assistant Professor, Graduate Studies. Yale Univ, PhD 1984; Northeastern Univ, BA 1976. Appointed 10/01/93.

Cammisa, Kathryn M., Assistant Professor, Occupational Therapy. Med Col of GA, MHEd 1991; Med Col of GA, BS 1982; Hillsborough Comm Col, AA 1978. Appointed 06/15/88.

Campbell, Carol A., Associate Professor, Health Information Management; Associate Professor, Graduate Studies. Nova Southeastern Univ, DBA 1996; Univ of Redlands, MA 1984; Loma Linda Univ, BS 1978. Appointed 09/13/84.

Caput, William G., Associate Professor, Family Medicine. Univ of MI (Ann Arbor), MD 1961; Baylor Univ, MHCA 1976; Univ of CA (Berkeley), MPH 1965; Wayne St Univ, BS 1957. Appointed 08/01/81.

Carl, G. Franklin, Professor, Neurology; Professor, Biochemistry and Molecular Biology; Professor, Psychiatry and Health Behavior; Professor, Graduate Studies; Associate Professor, Medicine. Univ of WY, PhD 1972; Gettysburg Col, BA 1967. Appointed 11/01/79.

Carrier, Gerald O., Professor, Pharmacology and Toxicology; Professor, Graduate Studies. Univ of TX (Austin), PhD 1971; Univ of TX (Austin), MS 1968; Univ of TX (Austin), BS 1966. Appointed 02/01/74.

Carroll, James E., Professor, Neurology; Professor, Pediatrics. Univ of Louisville, MD 1969; Univ of Louisville, BS 1966. Appointed 01/01/91.

Carroll, M. Amanda, Instructor, Health Information Management. Med Col of GA, BS 1994. Appointed 02/16/98.

Carter, A. Lee, Associate Professor, Biochemistry and Molecular Biology; Associate Professor, Graduate Studies. Univ of TX Hlth Sci Ctr (Dallas), PhD 1977; Baylor Univ, BS 1971. Appointed 08/15/80.

Carter, Brian S., Associate Professor, Pediatrics. Univ of TN (Memphis), MD 1983; David Lipscomb Col, BS 1979. Appointed 07/01/96.

Caruana, Ralph J., Professor, Medicine. Tufts Univ, MD 1974; Yale Univ, BA 1970. Appointed 05/01/86.

Casanova, Manuel F., Professor, Psychiatry and Health Behavior; Professor, Neurology. Univ of PR (Rio Rd), MD 1979; Univ of PR (Rio Rd), BS 1973. Appointed 10/01/91.

Cassingham, Robert P., Assistant Professor, Anesthesiology; Assistant Professor, Adult Nursing. Tulane Univ, MD 1979; Univ of TX (San Anton), MPH 1983; Tulane Univ, BA 1975. Appointed 07/01/91.

Catalano, Patricia A., Instructor, Adult Nursing. Med Col of GA, MSN 1989; Med Col of GA, BSN 1984. Appointed 09/01/97.

Catravas, John D., Regents' Professor, Pharmacology and Toxicology; Professor, Graduate Studies. Univ of MS, PhD 1978; Univ of MS, MS 1975; Cornell Col, BA 1972. Appointed 06/01/81.

Catto, Brian A., Associate Professor, Medicine; Assistant Professor, Oral Biology and Maxillofacial Pathology. Univ of Southern CA, MD 1973; Brown Univ, BA 1964. Appointed 08/01/84.

Caudell, Michael J., Assistant Professor, Emergency Medicine. Med Col of GA, MD 1993; Univ of GA, BS 1989. Appointed 07/01/97.

Caudell, Patricia A., Assistant Professor, Pathology. Med Col of GA, MD 1993; Wake Forest Univ, BS 1987. Appointed 07/01/98.

Caughman, Gretchen B., Professor, Oral Biology and Maxillofacial Pathology; Professor, Graduate Studies; Associate Professor, Cellular Biology and Anatomy. Med Univ of SC, PhD 1981; Clemson Univ, BS 1977. Appointed 07/01/85.

Caughman, W. Franklin, Professor, Oral Rehabilitation; Professor, Oral Biology and Maxillofacial Pathology; Professor, Graduate Studies. Med Univ of SC, DMD 1979; MS St Univ, MEd 1985; Clemson Univ, BS 1976. Appointed 07/01/85.

Chambers, Gerald T., Assistant Professor, Continuing Education and Health Communication. Univ of GA, PhD 1974; Univ of GA, MA 1967; West Carolina Univ, BA 1966. Appointed 09/01/75.

Chambers, Mary M., Assistant Professor, Parent-Child Nursing. Med Col of GA, MSN 1988; Med Col of GA, BSN 1975. Appointed 09/01/88.

Chan, Daniel C.N., Associate Professor, Oral Rehabilitation; Associate Professor, Oral Biology and Maxillofacial Pathology. Univ of IA, DDS 1988; Univ of IA, MS 1984. Appointed 02/23/98.

Chandler, A. Bleakley, Professor, Pathology. Med Col of GA, MD 1948. Appointed 07/01/51.

Chandler, Francis W., Jr., Professor, Pathology. Univ of GA, DVM 1967; Univ of GA, PhD 1973; Univ of GA, BS 1966. Appointed 04/01/85.

Chatto, Charlotte A., Instructor, Physical Therapy. Boston Univ, BS 1987. Appointed 10/15/95.

Chaudhary, Bashir A., Professor, Medicine; Professor, Respiratory Therapy. Univ of the Punjab, MBBS 1970; Govt Col (Mnglre), FSc 1965. Appointed 07/01/77.

Chen, Xinbin, Assistant Professor, Medicine; Assistant Professor, Biochemistry and Molecular Biology. MI St Univ, PhD 1992; Nanjing Univ, MS 1985; Anhui Agricultural Univ, BS 1982. Appointed 07/15/96.

Cherian, Mary, Assistant Research Scientist, Biochemistry and Molecular Biology. Gujarat Univ, PhD 1989; Gujarat Univ, MPhil 1983; Agra Univ, MS 1980; Univ of Kerala, BS 1977. Appointed 07/01/98.

Chernecky, Cynthia C., Associate Professor, Adult Nursing. Case Wstrn Resv Univ, PhD 1991; Univ of Pittsburgh, MN 1980; Univ of CT, BSN 1977. Appointed 09/01/96.

Chew, Catherine S., Professor, Medicine; Professor, Cellular Biology and Anatomy; Professor, Graduate Studies. Emory Univ, PhD 1977; Armstrong St Col, BS 1970. Appointed 07/01/93.

Chong, Raymond K., Assistant Professor, Physical Therapy. Univ of OR, PhD 1997; Univ of OR, MSc 1993; Univ of OR, BSc 1991. Appointed 12/15/97.

Christos, Ruth H., Assistant Professor, Medicine; Assistant Professor, Community Nursing. Univ of SC (Columbia), MN 1988; Univ of SC (Columbia), BSN 1984; Univ of SC (Columbia), ADN 1977. Appointed 09/15/97.

Cibirka, Roman M., Assistant Professor, Oral Rehabilitation. Univ of Detroit, DDS 1988; Univ of MI (Ann Arbor), MS 1990. Appointed 08/01/96.

Claiborne, Maureen O., Assistant Professor, Pediatrics. Med Col of GA, MD 1984; Spring Hill Col, BS 1970. Appointed 10/15/88.

Clark, Joseph H., Professor, Pediatrics. IN Univ-Prdue Univ (Indnpls), MD 1977; IN Univ-Prdue Univ (Indnpls), BA 1973. Appointed 07/01/87.

Cohen, Morris J., Professor, Neurology; Professor, Pediatrics; Professor, Psychiatry and Health Behavior. Univ of GA, EdD 1983; GA St Univ, EdS 1978; GA St Univ, MEd 1976; Univ of Rochester, BA 1975. Appointed 04/14/83.

Colborn, Gene L., Professor, Cellular Biology and Anatomy; Professor, Graduate Studies; Professor, Surgery. Wake Forest Univ, PhD 1967; Wake Forest Univ, MS 1967; Univ of Pittsburgh, BS 1962; KY Christian Col, BA 1957. Appointed 06/01/75.

Comer, Robert W., Associate Professor, Oral Diagnosis and Patient Services; Associate Professor, Oral Rehabilitation. Med Univ of SC, DMD 1978; Univ of GA, MA 1972; Clemson Univ, BS 1968. Appointed 11/01/86.

Condie, Brian G., Assistant Professor, Medicine; Assistant Professor, Cellular Biology and Anatomy. Univ of CA (Berkeley), PhD 1989; Univ of WA, BS 1984. Appointed 05/01/96.

Conkright, William F., Assistant Professor, Continuing Education and Health Communication. Univ of SC (Columbia), MEd 1978; Univ of Houston, AB 1970. Appointed 07/01/73.

Conway, Simon J., Assistant Professor, Cellular Biology and Anatomy; Assistant Professor, Graduate Studies. Univ of London, PhD 1993; Univ of Essex, BSc 1990. Appointed 05/01/96.

Cook, Lloyd O., Associate Professor, Pathology. IN Univ-Prdue Univ (Indnpls), MD 1974; Taylor Univ, BA 1970. Appointed 01/01/89.

Cook, Pamela P., Instructor, Adult Nursing. Med Univ of SC, MSN 1988; Univ of SC (Columbia), BSN 1980; Univ of SC (Aiken), AS 1978. Appointed 09/01/96.

Cooper, Everett B., Jr., Assistant Professor, Medicine. Temple Univ, MD 1988; Haverford Col, BA 1978. Appointed 11/01/95.

Corley, James H., Associate Professor, Radiology; Assistant Professor, Radiologic Sciences; Assistant Professor, Graduate Studies. Univ of GA, MS 1976; Univ of GA, BS 1969. Appointed 12/15/86.

Cormier, Rene E., Associate Professor, Medicine. McGill Univ, MD 1967; Boston Col, AB 1963. Appointed 10/01/73.

Corpe, Raymond S., Associate Professor, Surgery. Med Col of GA, MD 1980; GA Inst of Tech, BS 1976. Appointed 10/15/92.

Costoff, Allen, Associate Professor, Physiology and Endocrinology; Associate Professor, Graduate Studies. Univ of WI (Madsn), PhD 1969; Marquette Univ, MS 1959; Marquette Univ, BS 1957. Appointed 10/01/70.

Coule, Lynne W., Assistant Professor, Pediatrics. Med Col of GA, MD 1990; Mercer Univ, BS 1986. Appointed 12/01/95.

Cox, Frederick, Associate Professor, Pediatrics. Boston Univ, MD 1964; Boston Univ, BA 1960. Appointed 07/01/77.

Cranford, Donna O., Research Scientist, Medicine. Univ of GA, PharmD 1991; Univ of GA, BS 1990. Appointed 07/11/94.

Creazzo, Tony L., Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Med Col of GA, PhD 1980; Univ of GA, BS 1974. Appointed 09/01/84.

Creel, Teru A., Assistant Professor, Occupational Therapy. Mercer Univ (Atl), MS 1993; Med Col of GA, BS 1985; Erskine Col, BA 1983. Appointed 09/15/93.

Creelan, Marilee S., Instructor, Library. Kent St Univ, MLS 1976; Purdue Univ, BA 1968. Appointed 01/08/96.

Crist, David W., Assistant Professor, Surgery. Univ of KS, MD 1982; Mcpherson Col, BA 1978. Appointed 04/06/92.

Croft, Arthur R., Associate Professor, Oral Rehabilitation. Univ of NE (Lincoln), DDS 1968; Univ of Omaha, BS 1959. Appointed 08/01/87.

Crosby, John H., Professor, Pathology. Univ of TN (Memphis), MD 1967. Appointed 07/01/75.

Crowley, Julia R., Professor, Medical Technology; Professor, Graduate Studies. Univ of GA, EdD 1987; Cntrl MI Univ, MA 1980; Univ of HI (Honolulu Comm Col), MS 1967; Med Col of VA, BS 1973. Appointed 02/01/74.

Crumrine, Robert S., Professor, Anesthesiology; Associate Professor, Pediatrics; Professor, Adult Nursing. Univ of Rochester, MD 1962; Dartmouth Col, AB 1957. Appointed 07/15/85.

Cue, Jorge I., Associate Professor, Surgery. Univ of TX Hlth Sci Ctr (Dallas), MD 1982; Univ of TX (Austin), BA 1978; Univ of TX (Austin), BS 1978. Appointed 07/01/90.

Cunningham, Benna E., Assistant Professor, Mental Health/Psychiatric Nursing. Univ of KY, MS 1973; Univ of Evansville, BSN 1969. Appointed 10/01/91.

Curtis, James W., Jr., Associate Professor, Oral Rehabilitation. Med Univ of SC, DMD 1978; Clemson Univ, BS 1975. Appointed 07/01/89.

Curtis, W. David, Associate Professor, Medicine. Med Col of GA, MD 1986; Emory Univ, BA 1982. Appointed 07/01/91.

Dadig, Bonnie A., Associate Professor, Physician Assistant; Associate Professor, Graduate Studies. Univ of GA, EdD 1996; Univ of CO Med Ctr, MS 1980; Univ of CO (Bldr), BA 1973; Univ of CO (Bldr), BS 1973. Appointed 12/28/84.

Dainer, Paul M., Associate Professor, Medicine. Thomas Jefferson Univ, MD 1972; Col of Wm & Mary, BS 1968. Appointed 04/01/92.

Dalton, Rory R., Associate Professor, Surgery. Univ of AL (Birmnghm), MD 1986; Birmingham-Sthrn Col, BS 1982. Appointed 07/01/98.

Daniels, Elizabeth B., Assistant Professor, Community Nursing. Emory Univ, MN 1977; Vanderbilt Univ, BSN 1973. Appointed 09/01/92.

Davenport, Michael B., Instructor, Oral Rehabilitation. Med Univ of SC, DMD 1979; Clemson Univ, BS 1976. Appointed 01/01/90.

David, George, Assistant Professor, Radiology; Assistant Professor, Radiologic Sciences. Univ of MO (Columbia), MS 1980; Univ of MO (Columbia), MS 1978; Univ of MO (Columbia), BS 1974. Appointed 04/09/81.

Davidson, Bernard, Associate Professor, Psychiatry and Health Behavior; Associate Professor, Mental Health/Psychiatric Nursing. Univ of GA, PhD 1980; Univ of GA, MSW 1989; Fairleigh Dickinson Univ (Tean), MA 1976; Seton Hall Univ, BA 1973. Appointed 09/01/89.

Davis, Loretta S., Associate Professor, Medicine. OH St Univ, MD 1982; Univ of Miami, BA 1979. Appointed 08/01/92.

Davis, Virginia L., Instructor, Physical Therapy. Auburn Univ, MEd 1980; Med Col of GA, BS 1989; Auburn Univ, BS 1978. Appointed 08/15/97.

Davis, W. Bruce, Professor, Medicine. Emory Univ, MD 1975; Emory Univ, BA 1971. Appointed 08/01/92.

Day, Dudley E. Scott, Assistant Professor, Pathology. Univ of Louisville, MD 1992; Wingate Col, BS 1988. Appointed 07/01/98.

De Lecuona, Juan M., Assistant Professor, Psychiatry and Health Behavior. Cty Univ of NY (Mnt Sinai), MD 1986; Cty Univ of NY (Cty Col), BS 1984. Appointed 07/10/97.

De Stefano, Jamie A., Assistant Professor, Oral Biology and Maxillofacial Pathology. Univ of Cincinnati, PhD 1991; Chatham Col, BS 1983. Appointed 07/01/97.

DeLong, Tamsen H., Instructor, Community Nursing. Med Col of GA, MSN 1986; Med Col of GA, BSN 1978; Univ of GA, BA 1974. Appointed 02/10/93.

DeVries, Catherine R., Assistant Professor, Surgery; Assistant Professor, Pediatrics. Stanford Univ, MD 1984; Duke Univ, MS 1980; Harvard Univ, BA 1976. Appointed 07/01/95.

Deane, Daniel A., Assistant Professor, Pediatrics. LA St Univ & Agric & Mech Col, MD 1980; Univ of New Orleans, BA 1975. Appointed 02/01/95.

Dennis, Allen J., Jr., Professor, Medicine. Columbia Univ Col of Pharm, MD 1961; Rice Univ, AB 1957. Appointed 07/01/67.

Dennis, Jancis K., Associate Professor, Physical Therapy; Associate Professor, Graduate Studies. Swinburne Col of Tech, MAS 1987; Lincoln Inst of Hlth Sci, BAS 1980. Appointed 09/15/86.

Dennison, Franklin H., Associate Professor, Respiratory Therapy. Aug St Univ, MEd 1989; Med Col of GA, BS 1983; East Carolina Univ, BA 1976. Appointed 09/13/84.

Dennison, Jacquelyn H., Associate Professor, Library. Univ of SC (Columbia), ML 1977; Clemson Univ, BA 1975. Appointed 10/01/80.

Dennison, Robert L., Associate Professor, Anesthesiology. Med Univ of SC, MD 1981; Johns Hopkins Univ, BS 1972. Appointed 07/01/84.

Desmond, Anne M., Assistant Professor, Parent-Child Nursing. Emory Univ, MN 1972; Barry Univ, BSN 1957. Appointed 09/01/87.

Devoe, Lawrence D., Brooks Professor, Obstetrics and Gynecology. Univ of Chicago, MD 1970; Harvard Univ, BA 1966. Appointed 07/01/83.

Dickinson, Douglas P., Associate Professor, Oral Biology and Maxillofacial Pathology. Univ of Edinburgh, PhD 1980; Univ of Cambridge, MA 1980; Univ of Cambridge, BA 1976. Appointed 07/01/98.

Dickinson, Gene L., Associate Professor, Oral Rehabilitation; Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Graduate Studies. Univ of TN (Memphis), DDS 1963; Univ of AL (Birmnghm), MS 1988. Appointed 08/01/91.

Dinges, Emily J., Instructor, Associated Dental Sciences. Wichita St Univ, BS 1985. Appointed 09/15/94.

Dirksen, Thomas R., Professor, Oral Biology and Maxillofacial Pathology; Professor, Biochemistry and Molecular Biology; Professor, Graduate Studies. Univ of IL Med Ctr (Chicago), DDS 1957; Univ of Rochester, PhD 1967; Univ of Rochester, MS 1960; Bradley Univ, BS 1953. Appointed 08/01/67.

Dlugokinski, Mark D., Instructor, Oral Rehabilitation. Univ of MI (Ann Arbor), DDS 1992; Univ of MI (Flint), BS 1988. Appointed 07/10/97.

Doetsch, Gernot S., Associate Professor, Surgery; Associate Professor, Physiology and Endocrinology; Associate Professor, Graduate Studies. Duke Univ, PhD 1967; De Pauw Univ, BA 1962. Appointed 06/01/72.

Dolen, William K., Professor, Pediatrics; Professor, Medicine. Univ of TN (Memphis), MD 1977; Rhodes Col, BS 1974. Appointed 09/15/92.

Domyslawski, Donna J., Assistant Professor, Occupational Therapy. Univ of CO (Bldr), MA 1984; VA Commnwlth Univ, BS 1967. Appointed 09/01/97.

Dougherty, Susan W., Instructor, Parent-Child Nursing. GA St Univ, MS 1996; GA St Univ, BS 1978. Appointed 09/01/96.

Downey, Mary C., Assistant Professor, Associated Dental Sciences. Univ of MI (Ann Arbor), MS 1976; Med Col of GA, BS 1974. Appointed 09/15/91.

Dransfield, Daniel T., Assistant Professor, Medicine; Assistant Professor, Graduate Studies. Tufts Univ, PhD 1992; Catholic Univ of Amer, BS 1986. Appointed 08/01/94.

Dromsky, Joseph R., Instructor, Oral Rehabilitation. Med Col of GA, DMD 1988; Univ of GA, BS 1984. Appointed 09/03/90.

DuPre, Connie T., Assistant Professor, Medicine. LA St Univ Med Ctr, MD 1986; LA St Univ (Baton Rg), BS 1982. Appointed 07/01/90.

DuPre, John R., Assistant Professor, Medicine. Med Col of GA, MD 1986; Univ of VA, BA 1982. Appointed 11/01/92.

Dubin, Stevin A., Associate Professor, Anesthesiology; Associate Professor, Adult Nursing. Yeshiva Univ, MD 1983; Queen's Col, BA 1979. Appointed 07/14/86.

Duncan, Jewell B., Assistant Professor, Surgery. Med Col of GA, MD 1984; North GA Col, BBA 1982; Gainesville Col, AA 1977. Appointed 08/01/92.

Duvall, Roberta M., Instructor, Medical Technology. Univ of GA, BS 1965. Appointed 01/01/72.

Dynan, William S., Professor, Medicine; Professor, Biochemistry and Molecular Biology; Professor, Graduate Studies. Univ of WI (Madsn), PhD 1980; MA Inst of Tech, BS 1975. Appointed 09/01/95.

Edenfield, Sandra M., Assistant Professor, Obstetrics and Gynecology; Assistant Professor, Pediatrics. Med Col of GA, PhD 1997; Med Col of GA, MSN 1988; Med Col of GA, BSN 1969. Appointed 05/15/97.

Edwards, Barbara H., Assistant Professor, Pathology; Associate Professor, Medical Technology. Cntrl MI Univ, MA 1984; Med Col of VA, BS 1962. Appointed 09/01/74.

Edwards, Wallace S., Professor, Oral Rehabilitation. Med Col of VA, DDS 1965; Univ of IA, MA 1974; Univ of Richmond, BA 1961. Appointed 07/01/74.

Ehrhart, Ina C., Professor, Physiology and Endocrinology; Professor, Graduate Studies. OH St Univ, PhD 1972; OH St Univ, BS 1968. Appointed 06/01/74.

El Etreby, M. Fathy, Professor, Surgery; Professor, Physiology and Endocrinology. Univ of Munich, DVM 1963; Univ of Cairo, BVSc 1961. Appointed 12/01/94.

Elkins, Ralph L., Associate Professor, Psychiatry and Health Behavior. Univ of GA, PhD 1970; Auburn Univ, MS 1966; Auburn Univ, BS 1963. Appointed 08/01/72.

Ellis, Linda A., Associate Professor, Mental Health/Psychiatric Nursing; Associate Professor, Graduate Studies. Univ of GA, EdD 1979; Med Col of GA, MS 1972; Med Col of GA, BS 1967. Appointed 06/01/72.

Ellis, Terry R., Assistant Professor, Oral and Maxillofacial Surgery; Assistant Professor, Surgery. Univ of MS, DMD 1990; Univ of Southern MS, BS 1986. Appointed 04/01/98.

Ellison, Lois T., Professor, Medicine; Professor, Surgery; Associate Professor, Physiology and Endocrinology; Professor, Graduate Studies. Med Col of GA, MD 1950; Univ of GA, BS 1943. Appointed 10/01/51.

Ernst, Jeffrey L., Associate Professor, Psychiatry and Health Behavior. Southern IL Univ (Crbndl), PhD 1978; Univ of MO (Snt Louis), MEd 1974; Univ of IL (Chicago Cir), BS 1972. Appointed 07/01/83.

Eslick, Ronald G., Instructor, Adult Nursing. TX Wesleyan Col, MHS 1989; Univ of AR for Med Scis, BSN 1984. Appointed 09/01/96.

Etersque, Stanley, Associate Professor of Biomedical Computing, Allied Health Sciences. West VA Univ, EdD 1975; Duke Univ, MAT 1964. Appointed 04/01/78.

Eubig, Casimir, Associate Professor, Radiology; Assistant Professor, Radiologic Sciences. Univ of AZ, PhD 1970; Univ of AZ, MS 1965; Fordham Univ, BS 1962. Appointed 06/01/75.

Evans, D. Durrell, Assistant Professor, Psychiatry and Health Behavior. Med Col of OH, MD 1984; St Univ of NY (Bflo), MA 1979; Col of Wooster, BA 1977. Appointed 07/01/88.

Evans, Denise R., Assistant Professor, Psychiatry and Health Behavior. Med Col of OH, MD 1984; Univ of Toledo, BS 1978. Appointed 07/01/88.

Ewald, Frank W., Jr., Assistant Professor, Medicine. Eastern VA Med Sch, MD 1976; Univ of PA, BA 1973; Bucks Cnty Comm Col, AS 1971. Appointed 02/01/85.

Faguet, Guy B., Professor, Medicine. Xavier Univ, MD 1965; Biffe-LaSalle Col, BS 1958. Appointed 07/01/71.

Faircloth, Sharon P., Assistant Adjunct Professor, Medicine. Univ of AL (Birmnghm), MAE 1974; Univ of AL (Tuscaloosa), BS 1969. Appointed 01/01/91.

Fall, Pamela J., Assistant Professor, Medicine. Snt Louis Univ, MD 1988; Univ of CA (Los Angeles), MA 1981; Univ of CA (Los Angeles), BA 1977. Appointed 08/01/94.

Falls, D. Greer, III, Associate Professor, Pathology. Med Univ of SC, MD 1979; Wofford Col, BS 1975. Appointed 07/01/83.

Farley, Beverley A., Instructor, Oral Diagnosis and Patient Services. Med Col of GA, DMD 1991. Appointed 07/01/92.

Farris, Lee A., Instructor, Adult Nursing. Med Col of GA, MSN 1994; Med Col of GA, BSN 1990; Armstrong St Col, AS 1987. Appointed 09/01/94.

Fee, Deborah S., Instructor, Associated Dental Sciences. Med Col of GA, BS 1982; Aug St Univ, AA 1981. Appointed 09/01/94.

Fehrenbach, Rebecca R., Instructor, Library. Univ of SC (Columbia), SLIS 1994; Univ of SC (Columbia), MLib 1988; Univ of NC (Grnsbr), BA 1966. Appointed 02/17/97.

Fei, You-Jun, Assistant Professor, Biochemistry and Molecular Biology. Med Col of GA, PhD 1992; Guang Xi Med Col, MS 1981. Appointed 06/01/95.

Felz, Michael W., Associate Professor, Family Medicine. Univ of MO (Columbia), MD 1978; Univ of MO (Columbia), AB 1972. Appointed 11/01/87.

Ferrara, Kinga K., Assistant Professor, Medicine. Univ of CO Hlth Sci Ctr, MD 1985; Tulane Univ, MS 1981; Univ of North CO, BA 1979. Appointed 09/01/97.

Ferris, Daron G., Professor, Family Medicine. Wake Forest Univ, MD 1979; Davidson Col, BS 1975. Appointed 12/01/88.

Fick, Donna M., Assistant Professor, Medicine. Univ of CA (San Frncsco), PhD 1997; Univ of Cincinnati, MSN 1990; Berea Col, BSN 1986. Appointed 09/15/96.

Fick, James R., Assistant Professor, Surgery. Univ of IA, MD 1986; IA St Univ of Sci & Tech, BS 1982. Appointed 08/01/96.

Field, Richard S., Associate Professor, Medicine. Med Col of GA, MD 1976; Univ of GA, BS 1972. Appointed 07/01/86.

Figueroa, Ramon E., Associate Professor, Radiology. Univ of PR, MD 1980; Univ of PR, BS 1977. Appointed 10/09/86.

Fincher, Michael E., Associate Professor, Medicine. Emory Univ, MD 1976; Univ of NC (Chpl Hl), BA 1972. Appointed 07/01/88.

Fincher, Ruth-Marie E., Professor, Medicine. Emory Univ, MD 1976; Dartmouth Col, BMS 1974; Colby Col, BA 1972. Appointed 09/01/84.

Fisher, Lyle E., Jr., Assistant Professor, Pediatrics; Assistant Professor, Pharmacology and Toxicology. West VA Univ, MD 1988; West VA Univ, BS 1984. Appointed 09/01/93.

Flannery, Ann Marie, Professor, Surgery; Professor, Pediatrics. Rush Univ, MD 1979; Univ of IL (Urbana), BS 1972. Appointed 10/01/87.

Flannery, David B., Professor, Pediatrics. Emory Univ, MD 1976; Columbia Univ, BA 1972. Appointed 07/01/84.

Foerster, John E., Assistant Professor, Medical Illustration; Assistant Professor, Graduate Studies. Univ of MI (Ann Arbor), MFA 1988; Univ of MI (Ann Arbor), BFA 1985. Appointed 07/21/95.

Forney, Paul D., Associate Professor, Family Medicine; Associate Professor, Community Nursing. Univ of MD (Baltmr Prof), MD 1975; Yale Univ, BA 1971. Appointed 04/01/79.

Forsyth, Mary K., Instructor, Medicine. Univ of Cincinnati, MD 1992; Cornell Univ (Ithaca), MS 1978; Cornell Univ (Ithaca), BS 1974. Appointed 07/01/95.

Fortson, Weston M., Jr., Assistant Professor, Orthodontics. Med Col of GA, DMD 1983; Med Col of GA, BS 1979. Appointed 10/11/90.

Foshee, William S., Associate Professor, Pediatrics. Univ of AL (Birmnghm), MD 1966; Univ of AL (Tuscaloosa), BS 1961. Appointed 08/01/87.

Foster, James A., Assistant Professor, Family Medicine. Univ of MD (Baltmr Prof), MD 1993; Univ of MD (Col Park), BS 1989. Appointed 07/01/96.

Frazier, Kevin B., Assistant Professor, Oral Rehabilitation. Univ of FL, DMD 1983; Univ of FL, BS 1978; Univ of FL, BA 1978; Edison Comm Col, AA 1975. Appointed 01/02/95.

Freant, Lawrence J., Assistant Professor, Pathology; Assistant Professor, Medicine. Med Col of GA, MD 1967; Univ of Notre Dame, BS 1963. Appointed 08/01/94.

Freedman, Sandra N., Associate Professor, Radiology. Med Col of GA, MD 1968; Univ of GA, BS 1965. Appointed 07/01/72.

Frison, Lisa M., Associate Professor, Anesthesiology; Associate Professor, Adult Nursing. PA Col Osteopthc Med, DO 1983; Mercer Univ, BA 1979. Appointed 07/01/90.

Fuchs, Leslie C., Associate Professor, Pharmacology and Toxicology; Associate Professor, Graduate Studies. Univ of GA, PhD 1990; Univ of GA, BS 1987. Appointed 04/01/93.

Fuqua, Kevin R., Instructor, Anesthesiology. Med Univ of SC, MD 1990; Clemson Univ, BS 1985. Appointed 07/15/94.

Gadacz, Thomas R., Professor, Surgery. Snt Louis Univ, MD 1966; Univ of Notre Dame, BS 1962. Appointed 07/15/91.

Gaither, Kimberly B., Instructor, Emergency Medicine. Med Col of GA, MD 1996; Kennesaw Col, BSN 1988; Kennesaw Col, ADN 1982. Appointed 11/01/97.

Gale, Thomas F., Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Albany Med Col, PhD 1970; Univ of VT & St Agric Col, MS 1965; Univ of VT & St Agric Col, BA 1963. Appointed 07/01/76.

Galileo, Deni S., Assistant Professor, Cellular Biology and Anatomy; Assistant Professor, Graduate Studies. Univ of FL, PhD 1988; New Col Univ of S FL, BA 1983. Appointed 07/01/92.

Gambrell, Robert C., Assistant Professor, Family Medicine; Assistant Professor, Surgery. OH St Univ, MD 1985; Miami Univ Oxford Camp, BA 1987. Appointed 08/01/94.

Ganapathy, Malliga E., Assistant Professor, Medicine. Univ of Madras, MBBS 1975. Appointed 09/01/93.

Ganapathy, Vadivel, Regents' Professor, Biochemistry and Molecular Biology; Professor, Physiology and Endocrinology; Professor, Graduate Studies; Professor, Obstetrics and Gynecology. Univ of Madras, PhD 1978; Univ of Madras, MSc 1974; Univ of Madras, BSc 1971. Appointed 08/01/82.

Gao, Xiaoxing, Senior Research Scientist, Surgery; Senior Research Scientist, Pharmacology and Toxicology. Med Col of GA, PhD 1991; Shanghai Inst of Chem Ind, BS 1981. Appointed 05/01/92.

Gardner, F. Michael, Associate Professor, Oral Rehabilitation; Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Graduate Studies. Baylor Col of Dent, DDS 1967; George Washington Univ, MA 1988. Appointed 07/01/91.

Garnick, Jerry J., Professor, Periodontics; Professor, Graduate Studies; Professor, Oral Biology and Maxillofacial Pathology. Univ of MI (Ann Arbor), DDS 1957; Univ of MI (Ann Arbor), MS 1959. Appointed 08/01/74.

Garrett, William T., Assistant Professor, Neurology. Med Col of GA, MD 1991; Univ of GA, BS 1987. Appointed 07/01/97.

Garrison, Glen E., Professor, Medicine; Professor, Family Medicine. Wake Forest Univ, MD 1958; Wake Forest Univ, BS 1954. Appointed 08/01/65.

Gelbart, Arthur O., Associate Professor, Family Medicine. Ludwig Max Univ (Munich), MD 1959; NY Univ, BA 1954. Appointed 07/01/77.

George-Gay, Beverly E., Assistant Professor, Adult Nursing. Univ of FL, MSN 1991; Cty Univ of NY (Cty Col), BA 1982. Appointed 09/01/92.

Gerlach, Mary Jo M., Assistant Professor, Adult Nursing. IN Univ (Bloomington), MSN 1960; Col of Mt Snt Jos-OH, BSN 1957. Appointed 09/01/84.

Gerrity, Ross G., Professor, Pathology. Australn Natl Univ, PhD 1973; Univ of Saskatchwn, MA 1969; Univ of Saskatchwn, BA 1966. Appointed 07/01/90.

Gilman, Priscilla A., Associate Professor, Psychiatry and Health Behavior. Case Wstrn Resv Univ, MD 1962; Swarthmore Col, BA 1957. Appointed 01/01/95.

Given, Kenna S., Professor, Surgery. Duke Univ, MD 1964; West VA Univ, AB 1960. Appointed 06/01/77.

Godt, Robert E., Professor, Physiology and Endocrinology; Professor, Graduate Studies. Univ of WA, PhD 1971. Appointed 09/01/78.

Goldenring, James R., Professor, Medicine; Professor, Surgery; Professor, Cellular Biology and Anatomy; Professor, Graduate Studies. Yale Univ, PhD 1984; Yale Univ, MD 1986; Yale Univ, MPhil 1984; Harvard Univ, AB 1980. Appointed 07/01/93.

Goldman, Barry M., Professor, Oral Rehabilitation. Emory Univ, DDS 1964; Univ of TX Med Brch (Galvstn), MS 1972. Appointed 06/01/72.

Goldstein, Barry D., Professor, Pharmacology and Toxicology; Professor, Graduate Studies. Univ of Med & Dent of NJ, PhD 1979; Adelphi Univ, BA 1975. Appointed 05/01/81.

Gomez, Fernando L., Assistant Professor, Obstetrics and Gynecology. Tufts Univ, MD 1992; Boston Univ, BA 1988. Appointed 07/01/96.

Gore, Johnathan R., Assistant Professor, Family Medicine. Med Col of GA, MD 1991; VA Polytech Inst, BS 1985; Northern VA Cmty Col, AS 1982. Appointed 07/01/98.

Gossage, James R., Jr., Assistant Professor, Medicine. Rush Univ, MD 1984; Univ of IL (Urbana), BS 1979. Appointed 08/01/94.

Graham, Patricia B., Assistant Professor, Adult Nursing. Emory Univ, MN 1975; Adelphi Univ, BSN 1970. Appointed 08/01/90.

Green, Keith, Regents' Professor, Ophthalmology; Professor, Graduate Studies; Professor, Physiology and Endocrinology. Univ of Snt Andrews, PhD 1964; Univ of Snt Andrews, DSc 1984; Univ of Leicester, BSc 1961. Appointed 04/01/74.

Green, Mark S., Instructor, Physician Assistant. Troy St Univ (Main Campus)AMP, MS 1995; Med Col of GA, BS 1990. Appointed 01/06/97.

Greever, C. Martin, Assistant Professor, Medicine. Med Col of GA, MD 1986; Univ of Cincinnati, BS 1982. Appointed 08/01/93.

Griffin, Joseph W., Jr., Professor, Medicine. Univ of NC (Chpl Hl), MD 1968; Univ of NC (Chpl Hl), BA 1964. Appointed 07/01/75.

Grigsby, R. Kevin, Professor, Psychiatry and Health Behavior. Univ of PA, DSW 1990; FL St Univ, MSW 1981; Univ of GA, BA 1976. Appointed 12/01/91.

Gross, Hartmut, Assistant Professor, Emergency Medicine; Assistant Professor, Pediatrics. Univ of AL (Tuscaloosa), MD 1985; Univ of AL (Tuscaloosa), BA 1981; Univ of AL (Tuscaloosa), BS 1981. Appointed 07/01/92.

Guill, Margaret F., Professor, Pediatrics; Associate Professor, Medicine. Med Col of GA, MD 1972; Agnes Scott Col, BA 1969. Appointed 01/01/81.

Guinn, John W., III, Associate Professor, Oral Diagnosis and Patient Services. Emory Univ, DDS 1976; US Mil Academy, BS 1968. Appointed 08/01/90.

Gulati, Adarsh K., Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. West VA Univ, PhD 1979; Univ of Delhi, BS 1975. Appointed 08/01/84.

Gutin, Bernard, Professor, Pediatrics; Professor, Physiology and Endocrinology; Professor, Graduate Studies. NY Univ, PhD 1965; NY Univ, MA 1961; Cty Univ of NY (Hunter Col), AB 1960. Appointed 07/01/91.

Haas, Richard E., Instructor, Adult Nursing. St Univ of NY (Bflo), MS 1985; Boston Univ, MEd 1983; George Washington Univ, BSN 1976. Appointed 07/01/95.

Haburchak, David R., Associate Professor, Medicine. Johns Hopkins Univ, MD 1973; Johns Hopkins Univ, BA 1969. Appointed 10/01/87.

Haddad, Lester M., Jr., Professor, Emergency Medicine. Georgetown Univ, MD 1967. Appointed 04/01/98.

Hadsell, Michael J., Assistant Professor, Anesthesiology; Assistant Professor, Adult Nursing. Emory Univ, MD 1986; GA Inst of Tech, BEE 1980. Appointed 07/01/90.

Hall, Charles R., Sr., Instructor, Respiratory Therapy. Med Col of GA, BS 1994. Appointed 09/01/94.

Hall, Christopher D., Instructor, Medicine. Emory Univ, MD 1995; Tulane Univ, BS 1990. Appointed 07/01/98.

Hamilton, Edward H., Jr., Professor, Orthodontics. Univ of TN (Memphis), DDS 1954; Univ of TN (Memphis), BS 1954. Appointed 07/05/94.

Hand, Robert A., Assistant Professor, Pathology. Med Col of GA, MD 1961; Emory Univ, AB 1956. Appointed 01/01/64.

Hanes, Carole M., Professor, Pediatric Dentistry. Univ of Louisville, DMD 1981; Univ of Louisville, BS 1974. Appointed 09/01/86.

Hanes, Philip J., Professor, Periodontics; Professor, Oral Biology and Maxillofacial Pathology; Professor, Graduate Studies. Baylor Univ, DDS 1974; Univ of Rochester, MS 1985; Univ of North TX, BA 1971. Appointed 09/01/86.

Hanevold, Coral D., Associate Professor, Pediatrics. Med Col of GA, MD 1982; Emory Univ, BSN 1976. Appointed 04/01/95.

Hannafin, Kathleen M., Associate Professor, Library. PA St Univ, PhD 1989; KS St Univ, MS 1975; Duquesne Univ, BA 1971. Appointed 09/01/95.

Hansen, Keith A., Associate Professor, Obstetrics and Gynecology. Washington Univ, MD 1983; Carroll Col, BA 1979. Appointed 07/01/93.

Hardin, John A., Professor, Medicine. Med Col of GA, MD 1969; Univ of GA, BS 1965. Appointed 08/12/91.

Harper, Rene J., Assistant Professor, Medicine. Univ of Montemonelos, MD 1986. Appointed 09/01/97.

Harrison, Steven J., Associate Professor, Medical Illustration; Associate Professor, Graduate Studies. Med Col of GA, MS 1970; Med Col of GA, BS 1969. Appointed 09/15/91.

Harshfield, Gregory A., Professor, Pediatrics. Miami Univ Oxford Camp, PhD 1978; Miami Univ Oxford Camp, MA 1977; Wittenberg Univ, BA 1974. Appointed 03/01/97.

Hartlage, Patricia L., Professor, Neurology; Professor, Pediatrics. IN Univ-Prdue Univ (Indnpls), MD 1967; Snt Mary-of-the-Woods Col, BA 1963. Appointed 09/01/72.

Hartmann, Laura D., Assistant Professor, Pediatrics. Univ of MD (Baltmr Prof), MD 1992; Baylor Univ, BS 1989. Appointed 08/01/97.

Hartney, Thomas J., Assistant Professor, Medicine. Med Col of GA, MD 1983; Emory Univ, BS 1978. Appointed 07/01/86.

Hatley, Robyn M., Professor, Surgery; Professor, Pediatrics. Univ of KY, MD 1981; Eastern KY Univ, BS 1977. Appointed 07/01/86.

Hatmaker, Debra D., Assistant Professor, Parent-Child Nursing. Med Col of GA, PhD 1993; Med Col of GA, MSN 1986; Univ of TN (Memphis), BSN 1979. Appointed 01/01/94.

Havens, Robyn L., Assistant Professor, Adult Nursing. Wright St Univ (Main Campus), MS 1988; Miami Univ Oxford Camp, BSN 1983; Miami Univ Oxford Camp, ADN 1974. Appointed 09/01/94.

Hawkins, Isaac K., Assistant Professor, Oral Rehabilitation; Assistant Professor, Cellular Biology and Anatomy. Univ of TX Med Brch (Galvstn), DDS 1962; CO St Univ, PhD 1969. Appointed 07/01/69.

Hawkins, Michael L., Professor, Surgery; Professor, Anesthesiology. Emory Univ, MD 1968. Appointed 07/07/86.

Haywood, Van B., Professor, Oral Rehabilitation. Med Col of GA, DMD 1974; Univ of GA, BS 1971. Appointed 08/01/93.

Hebert, Charice M., Instructor, Pediatrics. LA St Univ (Shrevport), MD 1995; LA St Univ Syst, BS 1991. Appointed 07/01/98.

Heesch, Christian M., Assistant Professor, Medicine. Free Univ of Berlin, MD 1987. Appointed 10/15/96.

Helman, Sandra W., Assistant Professor, Surgery; Assistant Professor, Cellular Biology and Anatomy. Univ of Louisville, PhD 1987; Univ of Louisville, MS 1976. Appointed 05/01/90.

Hendrich, Julia E., Assistant Professor, Family Medicine. Med Col of GA, MD 1987; Clemson Univ, BS 1983. Appointed 08/01/90.

Hendrickson, Judith A., Instructor, Ophthalmology. S CA Col of Optometry, OD 1989; City Univ of NY (Baruch Col), BA 1984; Nassau Comm Col, AAS 1980. Appointed 10/01/97.

Herman, Wayne W., Associate Professor, Oral Diagnosis and Patient Services. IN Univ (Bloomington), DDS 1967; Univ of IA, MS 1974; IN Univ (Bloomington), BA 1963. Appointed 02/01/93.

Hess, David C., Associate Professor, Neurology; Assistant Professor, Medicine. Univ of MD (Baltmr Cnty), MD 1983; Johns Hopkins Univ, BA 1979. Appointed 07/01/89.

Hesser, Alfred W., Associate Professor of Medical Education, Medicine. VA Polytech Inst, EdD 1981; VA Polytech Inst, MA 1974; St Univ of NY (Col of Crtlnd), BS 1972. Appointed 09/13/82.

Heuer, Gerald A., Associate Professor, Oral Rehabilitation. Marquette Univ, DDS 1970; Univ of GA, EdD 1987. Appointed 07/01/74.

High, James A., Assistant Professor, Orthodontics. Emory Univ, DDS 1971; Emory Univ, BS 1971. Appointed 05/01/87.

Hill, W. David, II, Assistant Professor, Cellular Biology and Anatomy; Assistant Professor, Graduate Studies. Wake Forest Univ, PhD 1989; Wake Forest Univ, MS 1982; Wake Forest Univ, BA 1979. Appointed 07/01/92.

Hines, Franklin B., III, Assistant Professor, Orthodontics. Med Univ of SC, DMD 1978; Georgetown Univ, MSC 1981; Univ of SC (Columbia), BS 1974. Appointed 08/01/81.

Hobbs, Elgin, Jr., Assistant Professor, Emergency Medicine. Univ of NC (Chpl Hl), MD 1984; Univ of NC (Chpl Hl), BA 1979. Appointed 07/01/87.

Hobbs, Joseph, Professor, Family Medicine. Med Col of GA, MD 1974; Mercer Univ, BS 1970. Appointed 03/01/77.

Hodge, Lon D., Professor, Cellular Biology and Anatomy; Professor, Graduate Studies. Univ of PA, VMD 1961; Univ of NC (Chpl Hl), PhD 1966; Univ of MA (Boston Camp), BS 1957. Appointed 07/01/78.

Hoffman, William H., Professor, Pediatrics. Marquette Univ, MD 1965; Marquette Univ, AB 1961. Appointed 09/01/84.

Hofman, Wendell F., Professor, Physiology and Endocrinology; Professor, Graduate Studies. MI St Univ, PhD 1970; Western MI Univ, MS 1966; Western MI Univ, BS 1964. Appointed 09/01/70.

Hooper, Vallire D., Instructor, Adult Nursing. Med Col of GA, MSN 1992; Univ of SC (Columbia), BSN 1985. Appointed 09/01/96.

Hornsby, J. Larry, Sr., Associate Professor, Family Medicine. Univ of GA, EdD 1973. Appointed 08/01/73.

Horuzsko, Anatolij, Instructor, Medicine. Semmelweis Univ, MD 1976; Acad of Med of the Soviet Union, PhD 1980; Hungarian Acad of Sci, PhD 1987. Appointed 08/28/95.

House, Amy S., Assistant Professor, Psychiatry and Health Behavior. Univ of GA, PhD 1996; Univ of GA, MS 1994; Wake Forest Univ, BA 1991. Appointed 09/15/97.

Howard, Eugene F., Associate Professor, Biochemistry and Molecular Biology; Associate Professor, Graduate Studies. Univ of WI (Madsn), PhD 1967; Univ of WI (Madsn), MS 1962; Univ of WI (Madsn), BS 1960. Appointed 09/01/71.

Howdieshell, Thomas R., Associate Professor, Surgery. Med Col of GA, MD 1982; Univ of GA, BS 1978. Appointed 07/01/88.

Howell, Charles G., Jr., Professor, Surgery; Professor, Pediatrics. Med Col of GA, MD 1973; Valdosta St Col, BS 1970. Appointed 07/01/78.

Hudson, John K., Assistant Professor, Medicine. Med Col of GA, MD 1990; Emory Univ, BS 1986. Appointed 12/15/97.

Hudson, Valera L., Assistant Professor, Pediatrics. Med Col of GA, MD 1985; Aug St Univ, MS 1981; Aug St Univ, BS 1980. Appointed 07/01/92.

Huff, Thomas A., Professor, Medicine. Emory Univ, MD 1961; Rhodes Col, AB 1957. Appointed 01/15/71.

Hughes, John L., Associate Professor, Psychiatry and Health Behavior. Med Col of GA, MD 1959; Univ of GA, BS 1955. Appointed 09/01/89.

Hull, David S., Professor, Ophthalmology. Univ of IL Med Ctr (Chicago), MD 1967; Univ of IL (Urbana), BA 1964. Appointed 06/01/74.

Humphries, Arthur L., Jr., Professor, Surgery. Johns Hopkins Univ, MD 1952; Citadel Mil Col of SC, BS 1948. Appointed 07/01/60.

Hunt, Winston H., Instructor, Physician Assistant. Med Col of GA, BS 1974. Appointed 12/15/92.

Ignatowicz, Leszek, Assistant Professor, Medicine; Assistant Professor, Graduate Studies. Wroclaw B. Bierut Univ, PhD 1990; Wroclaw B. Bierut Univ, MS 1985; Wroclaw B. Bierut Univ, BS 1984. Appointed 07/01/96.

Isales, Carlos M., Associate Professor, Medicine; Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Univ of PR, MD 1982; Tufts Univ, BS 1978. Appointed 07/01/93.

Ivanhoe, John R., Associate Professor, Oral Rehabilitation. Loyola Univ (New Orlns), DDS 1968. Appointed 08/15/93.

Iwinski, Henry J., Jr., Associate Professor, Surgery; Assistant Professor, Pediatrics. Brown Univ, MD 1985; Niagara Univ, BS 1981. Appointed 07/01/90.

Jackson, Thomas W., Associate Professor, Medicine. Med Col of GA, MD 1982; Emory Univ, BS 1978. Appointed 07/01/91.

Jackson, William J., Associate Professor, Physiology and Endocrinology; Associate Professor, Graduate Studies. TX Tech Univ, PhD 1966. Appointed 05/01/71.

Jaffe, Lynn E., Assistant Professor, Occupational Therapy; Assistant Professor, Graduate Studies. Boston Univ, ScD 1995; Columbia Univ, MS 1977; Mt Holyoke Col, BA 1973. Appointed 08/01/93.

Jagadeesan, Muralidharan, Assistant Professor, Medicine. Univ of Madras, MBBS 1985. Appointed 10/06/97.

Jarvis, Reynolds G., Associate Professor, Medicine; Associate Professor, Psychiatry and Health Behavior. Med Col of GA, MD 1976; Univ of the South, BA 1972. Appointed 07/01/82.

Jeffery, Kathleen M., Assistant Professor, Surgery. OH St Univ, MD 1992; OH St Univ, BS 1988. Appointed 07/01/98.

Jense, Holly G., Associate Professor, Anesthesiology; Assistant Professor, Pediatrics; Associate Professor, Adult Nursing. Yeshiva Univ, MD 1983; Bryn Mawr Col, AB 1979. Appointed 08/01/89.

Jerath, Rita S., Assistant Professor, Pediatrics; Assistant Professor, Medicine. Victoria Univ (Manchstr), MBChB 1977. Appointed 10/01/89.

Jester, David M., Assistant Professor, Family Medicine; Assistant Professor, Physician Assistant. East Carolina Univ, MD 1992; East Carolina Univ, BS 1988. Appointed 07/01/95.

Jester, Kimberly B., Assistant Professor, Pediatrics. East Carolina Univ, MD 1992; Mars Hill Col, BS 1987. Appointed 09/01/95.

Jillella, Anand P., Assistant Professor, Medicine. Sri Venkateshwara Univ, MBBS 1983; Spicer Col, BS 1978. Appointed 10/01/96.

Joe, Clarence, Associate Professor, Radiology; Associate Professor, Surgery. Med Col of GA, DMD 1973; Med Col of GA, MD 1977. Appointed 07/01/83.

Johnson, Alan J., Assistant Professor, Surgery. Univ of IA, MD 1986; Univ of Dubuque, BA 1981. Appointed 05/01/98.

Johnson, Carol D., Instructor, Physical Therapy. Univ of GA, MS 1986; Med Col of GA, BS 1994; Univ of GA, BS 1981. Appointed 09/15/96.

Johnson, William M., Associate Professor, Medicine. Stanford Univ, MD 1968; Harvard Univ, MIH 1971; Harvard Univ, MPH 1970; Stanford Univ, AB 1963. Appointed 04/01/95.

Johnston, Charlotte A., Associate Professor, Health Information Management; Associate Professor, Graduate Studies. GA St Univ, PhD 1987; Med Col of GA, MS 1971; Med Col of GA, BS 1964. Appointed 12/16/81.

Johnston, Joseph F., Professor, Anesthesiology. Med Col of GA, MD 1968. Appointed 11/15/82.

Josephson, Allan M., Professor, Psychiatry and Health Behavior. Univ of Alberta, MD 1976; Univ of Alberta, BMSc 1974. Appointed 02/13/86.

Kalinich, Doris L., Instructor, Library. Univ of SC (Columbia), MLIS 1996; FL St Univ, BA 1991. Appointed 03/13/97.

Kaltenbach, Robert F., Jr., Associate Professor, Psychiatry and Health Behavior; Associate Professor, Oral Rehabilitation. Univ of GA, PhD 1975; Baylor Univ, MA 1966; Southeastern LA Univ, BA 1964. Appointed 10/01/76.

Kaminer, Sharon J., Associate Professor, Pediatrics. Univ of Miami, MD 1980; Jacksonville Univ, BA 1976. Appointed 08/01/90.

Kanto, William P., Jr., Hawes Professor, Pediatrics. Univ of VA, MD 1966; Univ of VA, AB 1962. Appointed 03/01/83.

Karp, Warren B., Professor, Pediatrics; Professor, Biochemistry and Molecular Biology; Professor, Oral Biology and Maxillofacial Pathology; Professor, Oral Diagnosis and Patient Services; Professor, Graduate Studies. OH St Univ, PhD 1970; Med Col of GA, DMD 1977; Pace Univ NY, BS 1965. Appointed 07/01/71.

Kelly, Thomas, Jr., Adjunct Instructor, Health Information Management. Aug St Univ, MBA 1978; Aug St Univ, BBA 1973. Appointed 12/01/78.

Kemp, Virginia H., Professor, Parent-Child Nursing; Professor, Graduate Studies. Univ of TX (Austin), PhD 1983; Emory Univ, MN 1972; Med Col of GA, BSN 1971. Appointed 07/01/89.

Kendall, Peter J., Assistant Adjunct Professor, Health Information Management. Univ of MN (Twin Cities Campus), MHA 1986; Univ of MN (Twin Cities Campus), MBA 1986; Luther Col, BA 1982. Appointed 09/14/95.

Kenimer, Elizabeth A., Assistant Professor, Medical Technology. Med Col of GA, MS 1976; Med Col of GA, BS 1972. Appointed 06/15/98.

Kersey, Christine S., Instructor, Physical Therapy. Med Col of GA, BS 1982. Appointed 10/15/95.

Kesler, Reuben, Associate Professor, Medicine. , EdD 19. Appointed 06/13/98.

Khan, M. Iqbal, Associate Professor, Obstetrics and Gynecology; Associate Professor, Cellular Biology and Anatomy. Gothenburg Univ, PhD 1980; Univ of Karachi, MSc 1970; Univ of Karachi, BSC 1969. Appointed 03/01/90.

Kiernan, Barbara S., Assistant Professor, Parent-Child Nursing. Univ of KY, PhD 1995; Univ of PA, MSN 1971; Seton Hall Univ, BSN 1965. Appointed 09/01/91.

Kiernan, Thomas W., Professor, Medicine. Univ of Med & Dent of NJ, MD 1967; Univ of Pittsburgh, BS 1963. Appointed 09/17/90.

Killeen, Maureen R., Professor, Mental Health/Psychiatric Nursing; Professor, Graduate Studies. Univ of GA, PhD 1984; Emory Univ, MN 1973; D'Youvle Col, BSN 1970. Appointed 09/01/84.

Kimbrough, W. Frank, Associate Professor, Endodontics. Univ of TX Hlth Sci Ctr (Hstn), DDS 1964; George Washington Univ, MS 1974; West TX St Univ, BA 1960. Appointed 09/10/92.

King, Coleman T., Assistant Professor, Medicine. Med Col of GA, MD 1985; Univ of GA, BS 1980. Appointed 09/01/95.

King, Don W., Professor, Neurology. Univ of TX Med Brch (Galvstn), MD 1969; Baylor Univ, BA 1965. Appointed 07/01/77.

King, J. Valerie, Associate Professor, Community Nursing. Univ of GA, EdD 1987; Univ of GA, MEd 1971. Appointed 01/01/72.

Kirby, Margaret L., Regents' Professor, Cellular Biology and Anatomy; Professor, Graduate Studies; Professor, Pediatrics. Univ of AR, PhD 1972; Manhattanvle Col, AB 1968. Appointed 06/01/77.

Kirch, Darrell G., Professor, Psychiatry and Health Behavior; Professor, Pharmacology and Toxicology; Professor, Graduate Studies. Univ of CO Hlth Sci Ctr, MD 1977; Univ of CO (Denver), BA 1973. Appointed 02/07/94.

Kline, Kerry L., Assistant Professor, Obstetrics and Gynecology. Univ of Louisville, MD 1978; IN Univ (Bloomington), BA 1974. Appointed 10/01/90.

Kling, J. Malcolm, Professor, Pharmacology and Toxicology; Professor, Surgery; Professor, Graduate Studies. Univ of GA, DVM 1959; Univ of FL, PhD 1967; Auburn Univ, MS 1961. Appointed 08/01/67.

Klippert, Frederick N., Assistant Professor, Surgery. OH St Univ, MD 1966; Mt Union Col, BS 1962. Appointed 06/20/91.

Kolbeck, Ralph C., Associate Professor, Medicine; Associate Professor, Physiology and Endocrinology; Associate Professor, Graduate Studies. Univ of MN (Twin Cities Campus), PhD 1970; Univ of MN (Twin Cities Campus), BA 1966. Appointed 07/01/73.

Konzelman, Joseph L., Jr., Associate Professor, Oral Diagnosis and Patient Services. Seton Hall Univ, DDS 1960; Snt Peter's Col, AB 1956. Appointed 08/01/94.

Kornegay, Denise D., Assistant Professor, Family Medicine. Univ of GA, MSW 1987; Carson-Newman Col, BA 1985. Appointed 09/01/95.

Krauss, Jonathan S., Professor, Pathology. Univ of FL, MD 1970; Cornell Univ (Statutory Cols), AB 1966. Appointed 07/01/78.

Kuhn, Sharon C., Assistant Professor, Family Medicine. PA St Univ (Hrsh Med Ctr)002394, MD 1976; Univ of NC (Chpl Hl), BA 1972. Appointed 06/01/93.

Kuhn, Walter F., Associate Professor, Emergency Medicine; Assistant Professor, Pediatrics. PA St Univ, MD 1974; Univ of NC (Chpl Hl), BA 1970. Appointed 12/01/90.

Kulharya, Anita S., Assistant Professor, Pediatrics. Univ of North TX, PhD 1990; Haryana Agric Univ, MS 1976; Panjab Univ, BS 1974. Appointed 07/01/95.

Kupferberg, Stephen B., Instructor, Surgery. Thomas Jefferson Univ, MD 1992; Muhlenberg Col, BS 1988. Appointed 08/01/97.

Kutlar, Abdullah, Professor, Medicine; Professor, Graduate Studies; Associate Professor, Biochemistry and Molecular Biology. Univ of Ankara, MD 1971. Appointed 07/01/85.

Kutlar, Ferdane, Assistant Professor, Medicine. Istanbul Univ, MD 1971. Appointed 07/01/85.

Laduzenski, Eugene A., Instructor, Oral Rehabilitation. Tufts Univ, DMD 1962. Appointed 03/10/94.

Lam, Rebecca W., Associate Professor, Radiologic Sciences. Aug St Univ, MEd 1981; Med Col of GA, BS 1976; Med Col of GA, AS 1975. Appointed 09/13/76.

Lambert, Nevin A., Assistant Professor, Pharmacology and Toxicology; Assistant Professor, Graduate Studies. Kent St Univ, PhD 1991; Youngstown St Univ, BS 1990. Appointed 04/01/96.

Lambert, Vickie A., Professor, Adult Nursing; Professor, Graduate Studies. Univ of CA (San Frncsco), DNSc 1981; Case Wstrn Resv Univ, MSN 1973; Univ of IA, BSN 1966. Appointed 07/01/90.

Lanclos, Kenneth D., Professor, Biochemistry and Molecular Biology; Professor, Graduate Studies. Baylor Col of Med, PhD 1972; Lamar Univ, BS 1964. Appointed 01/01/74.

Lane, Natalie E., Assistant Professor, Emergency Medicine; Assistant Professor, Pediatrics. Univ of South AL, MD 1988; Samford Univ, BS 1982. Appointed 11/01/97.

Lapp, Carol A., Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Graduate Studies. Med Col of GA, PhD 1985; Univ of RI, MS 1968; Bucknell Univ, BS 1963. Appointed 10/15/90.

Lapp, David F., Associate Professor, Biochemistry and Molecular Biology; Associate Professor, Graduate Studies. Rice Univ, PhD 1968; Univ of PA, BA 1962. Appointed 07/01/71.

Larison, Patricia J., Assistant Professor, Pathology; Associate Professor, Medical Technology. Cntrl MI Univ, MA 1982; AL Col, BS 1955. Appointed 12/01/72.

Laurich, Gerald A., Assistant Professor, Medical Technology. AR St Univ, PhD 1980; Otterbein Col, BS 1967. Appointed 09/15/94.

Lause, David B., Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. OH St Univ, PhD 1975; OH St Univ, MS 1975; OH Northern Univ, BS 1970. Appointed 08/01/77.

Lavin, Nancy L., Associate Professor, Radiologic Sciences. Aug St Univ, MEd 1980; Aug St Univ, BA 1973. Appointed 07/01/75.

LeClair, Bruce M., Assistant Professor, Family Medicine. Univ of CA (Davis), MD 1981; San Diego St Univ, BS 1975. Appointed 03/01/92.

Leatherbury, Linda, Professor, Pediatrics. Med Col of GA, MD 1978; Univ of VA, BA 1974. Appointed 09/01/85.

Ledrick, David J., Assistant Professor, Emergency Medicine. Hahnemann Med Col & Hosp, MD 1993; Univ of Pittsburgh, MEd 1998; Univ of Notre Dame, BS 1989. Appointed 07/01/98.

Lee, Carol E., Associate Professor, Occupational Therapy; Associate Professor, Graduate Studies. Univ of GA, EdD 1986; Med Col of GA, MHEd 1976; Univ of TX Med Brch (Galvstn), BS 1973. Appointed 10/01/76.

Lee, Gregory P., Professor, Psychiatry and Health Behavior; Professor, Surgery. FL Inst of Tech, PhD 1980; Lone Mtn Col, MA 1975; Univ of North CO, BA 1975. Appointed 11/01/86.

Lee, Jeffrey R., Assistant Professor, Pathology. Northwestern Univ, MD 1975; Duke Univ, BS 1971. Appointed 09/11/97.

Lee, Mark R., Associate Professor, Surgery. Univ of Chicago, MD 1986; Univ of Chicago, PhD 1988; Univ of CA (Los Angeles), BS 1981. Appointed 08/01/94.

Leenerts, Mary H., Assistant Professor, Community Nursing. Univ of CO Hlth Sci Ctr, PhD 1997; Univ of NE (Omaha), MSN 1991; Univ of NE (Omaha), BSN 1964. Appointed 09/01/97.

Lefebvre, Carol A., Associate Professor, Oral Rehabilitation; Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Graduate Studies. Univ of MI (Ann Arbor), DDS 1983; Univ of MI (Ann Arbor), MS 1986; MI St Univ, BS 1979. Appointed 08/01/89.

Leibach, Frederick H., Professor, Biochemistry and Molecular Biology; Professor, Physiology and Endocrinology; Professor, Graduate Studies. Emory Univ, PhD 1964; Soutwestern MO St Univ, BS 1959. Appointed 06/01/67.

Lemmon, Christian R., Assistant Professor, Psychiatry and Health Behavior. Univ of MS, PhD 1991; Univ of TX (El Paso), MA 1984; Washington Col, BA 1982. Appointed 10/01/91.

Lennox, Kenneth W., Professor, Surgery. NY Med Col, MD 1959; Univ of Miami, BS 1955. Appointed 01/01/78.

Lentz, Linda M., Assistant Professor, Medicine. Med Col of GA, MD 1988; GA Southern Univ, BS 1984. Appointed 08/01/93.

Leonard, Sandra B., Assistant Professor, Medicine. FL St Univ, MS 1974; FL St Univ, BS 1972. Appointed 10/01/80.

Lesher, Jack L., Jr., Professor, Medicine. Med Col of GA, MD 1981; Emory Univ, BMSc 1974; Bucknell Univ, AB 1970. Appointed 07/01/85.

Levine, Monroe I., Professor, Surgery. NY Univ, MD 1961; VA Military Inst, BA 1957. Appointed 08/01/85.

Lewis, Deborah L., Associate Professor, Pharmacology and Toxicology; Associate Professor, Graduate Studies. Kent St Univ, PhD 1983; Clemson Univ, MS 1976; Clemson Univ, BS 1974. Appointed 08/15/89.

Lewis, Jill B., Assistant Professor, Oral Biology and Maxillofacial Pathology; Assistant Professor, Graduate Studies. Med Col of GA, PhD 1989; IL Wesleyan Univ, BA 1980; Springfield Col (IL), AA 1978. Appointed 06/01/89.

Lewis, Lloyd A., Professor of Medical Education, Medicine. FL St Univ, PhD 1969; FL St Univ, MS 1965; FL St Univ, BS 1964. Appointed 06/01/74.

Lewis, Ronald W., Professor, Surgery. Tulane Univ, MD 1968; Tulane Univ, BS 1965. Appointed 12/01/94.

Liang, Yayun, Assistant Research Scientist, Surgery. Beijing Med Col, PhD 1981; Beijing Med Col, PharmD 1976. Appointed 07/01/97.

Lightsey, Alton L., Jr., Associate Professor, Pediatrics. Univ of MS, MD 1970; Rhodes Col, BS 1966. Appointed 10/01/89.

Lillis, Patricia P., Associate Professor, Adult Nursing; Associate Professor, Graduate Studies. Univ of AL (Birmnghm), DSN 1985; Univ of CA (San Frncsco), MS 1972; Northwstrn St Univ of LA, BSN 1963. Appointed 07/17/72.

Lin, Shuo, Assistant Professor, Medicine; Assistant Professor, Biochemistry and Molecular Biology; Assistant Professor, Graduate Studies. Boston Univ, PhD 1990; Chinese Acad of Agric Scis, MS 1984; Sichuen Agric Univ, BS 1981. Appointed 11/01/95.

Linder, Charles W., Professor, Pediatrics. Med Col of GA, MD 1963; Furman Univ, BS 1959. Appointed 09/01/69.

Liou, Gregory I.H., Associate Professor, Ophthalmology; Associate Professor, Biochemistry and Molecular Biology; Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. NC St Univ, PhD 1976; NC St Univ, MS 1973; Natl Taiwan Norm Univ, BS 1969. Appointed 10/01/90.

Litaker, Mark S., Assistant Professor, Pharmacology and Toxicology. Univ of SC (Columbia), PhD 1996; Med Univ of SC, MS 1990; Col of Charleston, BS 1980. Appointed 07/10/97.

Locksmith, John P., Assistant Professor, Radiology. Marquette Univ, MD 1959; Marquette Univ, BS 1955. Appointed 10/01/88.

Loebl, Donald H., Associate Professor, Medicine. Northwestern Univ, MD 1971; Northwestern Univ, BS 1968. Appointed 07/01/86.

Loring, David W., Professor, Neurology. Univ of Houston, PhD 1982; Univ of Houston, MA 1980; Wittenberg Univ, BA 1978. Appointed 09/01/85.

Louard, Rita J., Associate Professor, Medicine. Columbia Univ, MD 1981; Bryn Mawr Col, AB 1976. Appointed 09/01/94.

Loushine, Robert J., Assistant Professor, Endodontics; Assistant Professor, Oral Biology and Maxillofacial Pathology. Univ of MN (Twin Cities Campus), DDS 1977; Univ of MN (Duluth), BS 1973; Hibbing Comm Col, AS 1972. Appointed 11/12/92.

Lucas, Jason A., Instructor, Respiratory Therapy. Med Col of GA, BS 1995. Appointed 10/11/96.

Lupien, Alfred E., Assistant Professor, Adult Nursing. Univ HI (Manoa), PhD 1995; Univ of AL (Birmnghm), MSN 1989; Univ of MD (Baltmr Prof), BSN 1976. Appointed 10/01/94.

Lutcher, C. Lawrence, Professor, Medicine. Washington Univ, MD 1961; Whitman Col, BA 1957. Appointed 06/15/70.

Lutin, William A., Associate Professor, Pediatrics. Vanderbilt Univ, MD 1981; Vanderbilt Univ, PhD 1984; Princeton Univ, BA 1973. Appointed 09/01/90.

Luxenberg, Malcolm N., Professor, Ophthalmology. Univ of Miami, MD 1960. Appointed 08/01/72.

Lyle, W. Glenn, Associate Professor, Surgery. Wayne St Univ, MD 1986; Univ HI (Manoa), MS 1982; Univ of MA (Amherst Camp), BS 1980. Appointed 08/01/94.

Mabe, P. Alex, III, Associate Professor, Psychiatry and Health Behavior. Univ of FL, PhD 1982; East Carolina Univ, MA 1974; Wake Forest Univ, BA 1972. Appointed 09/01/82.

Macfee, Michael S., Professor, Obstetrics and Gynecology. Univ of CO (Bldr), MD 1976; Univ of CO (Bldr), BS 1973. Appointed 01/15/97.

Mackert, J. Rodway, Jr., Professor, Oral Rehabilitation; Professor, Oral Biology and Maxillofacial Pathology; Professor, Graduate Studies. Med Col of GA, DMD 1976; Univ of VA, PhD 1979. Appointed 09/01/80.

Maclean, J. Ross, Assistant Professor, Medicine. Univ of Aberdeen, MD 1996; Univ of Aberdeen, MSc 1996; Univ of Aberdeen, MBChB 1987; Univ of Aberdeen, MBA 1995. Appointed 07/01/97.

Macura, Katarzyna J., Assistant Professor, Radiology. Univ of Lodz, MD 1989; Univ of Lodz, PhD 1991. Appointed 08/01/93.

Macura, Robert T., Associate Professor, Radiology. Silesian Univ, MD 1986; Silesian Univ, PhD 1990; Polish Academy of Sci, MS 1987. Appointed 09/01/92.

Maeve, M. Katherine, Assistant Professor, Community Nursing; Assistant Professor, Graduate Studies. Univ of CO Hlth Sci Ctr, PhD 1995; Univ of CO Hlth Sci Ctr, MS 1989; Mesa St Col, BSN 1985; Mayfair Col, ADN 1976. Appointed 09/01/95.

Mahadik, Sahebarao P., Professor, Psychiatry and Health Behavior. Univ of Poona, PhD 1970; Univ of Poona, MSc 1965; Univ of Poona, BSc 1963. Appointed 01/01/92.

Mahesh, Virendra B., Regents' Professor, Physiology and Endocrinology; Greenblatt Professor of Endocrinology, Physiology and Endocrinology; Professor, Graduate Studies. Univ of Delhi, PhD 1955; Oxford Univ, DPhil 1958; Univ of Delhi, MSc 1953; Univ of Patna, BSC 1951. Appointed 11/01/59.

Mailhot, Jason M., Associate Professor, Periodontics; Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Graduate Studies. Univ of Pittsburgh, DMD 1981; Med Col of GA, MS 1993; St Univ of NY (Col of Oneonta), BS 1978; St Univ of NY (A&T Col of Frmgdl), AA 1976. Appointed 07/01/91.

Mammen, Annamma T., Assistant Professor, Family Medicine. Univ of Madras, MBBS 1972; Univ of Madras, MD 1986. Appointed 08/01/93.

Manley, Nancy R., Assistant Professor, Pediatrics; Assistant Professor, Cellular Biology and Anatomy. MA Inst of Tech, PhD 1989; Bryn Mawr Col, BA 1983. Appointed 05/01/96.

Mansberger, Arlie R., Jr., Professor Emeritus, Surgery. Univ of MD (Baltmr Prof), MD 1947; Western MD Col, AB 1943. Appointed 06/01/73.

Marchand, Arturo E., Assistant Professor, Radiology. Univ of PR, MD 1977; Boston Univ, BS 1973. Appointed 08/23/93.

Marcus, Dennis M., Associate Professor, Ophthalmology. Yeshiva Univ, MD 1987; St Univ of NY (Stoney Brk), BS 1983. Appointed 07/11/94.

Markle, Janet T., Assistant Professor, Radiology. Med Col of PA, MD 1981; PA St Univ, MS 1978; PA St Univ, BS 1976. Appointed 08/01/92.

Markowitz, Rhea-Beth, Senior Research Scientist, Medicine. Yeshiva Univ, PhD 1984; Yeshiva Univ, MS 1979; Boston Univ, BA 1971. Appointed 01/01/96.

Marks, David S., Assistant Professor, Medicine. Univ of CA (San Frncsco), MD 1989; Stanford Univ, AB 1985. Appointed 07/05/96.

Marrero, Mario B., Assistant Professor, Pharmacology and Toxicology. NM St Univ, PhD 1985; NM St Univ, MS 1983; Univ of NV (Las Vegas), MS 1979; Univ of NV (Las Vegas), BS 1977. Appointed 06/01/98.

Martin, Dan C., Professor, Anesthesiology; Professor, Pharmacology and Toxicology. Med Col of GA, MD 1979; GA St Univ, BS 1975. Appointed 07/01/84.

Martin, Richard M., Associate Professor, Medicine. Duke Univ, PhD 1974; Duke Univ, MDiv 1970; Birmingham-Sthrn Col, BA 1967. Appointed 08/01/72.

Martindale, Robert G., Associate Professor, Surgery. Univ of CA (Los Angeles), PhD 1982; George Washington Univ, MD 1984; Humboldt St Univ, MA 1977; Humboldt St Univ, BA 1975. Appointed 07/01/93.

Mascaro, David J., Associate Professor, Medical Illustration; Associate Professor, Graduate Studies. Med Col of GA, MS 1969; Med Col of GA, BS 1968. Appointed 08/01/71.

Mathews, Wayne S., Jr., Associate Professor, Anesthesiology; Associate Professor, Pediatrics. Med Col of GA, MD 1980; Univ of GA, BS 1976. Appointed 07/01/83.

May, Bella J., Professor Emerita, Allied Health Sciences. Univ of Miami, EdD 1970. Appointed 09/01/70.

McCord, James W., Associate Professor, Neurology. Med Col of GA, MD 1964; Univ of GA, BS 1960. Appointed 07/01/74.

McCranie, Edward W., Assistant Professor, Psychiatry and Health Behavior; Assistant Professor, Graduate Studies. Emory Univ, PhD 1971; Emory Univ, MA 1967; Emory Univ, AB 1965; Emory Univ, AA 1963. Appointed 09/01/71.

McDonnell, Dennis E., Professor, Surgery. Creighton Univ, MD 1962; Rockhurst Col, BS 1958. Appointed 10/01/84.

McDonough, Paul G., Professor Emeritus, Obstetrics and Gynecology; Professor Emeritus, Physiology and Endocrinology; Professor Emeritus, Pediatrics. Thomas Jefferson Univ, MD 1956; Col of the Holy Cross, BS 1952. Appointed 10/01/66.

McGinnis, Patricia P., Assistant Professor, Community Nursing. LA St Univ Med Ctr, MN 1985; LA St Univ Med Ctr, BSN 1971. Appointed 09/01/96.

McKie, Kathleen M., Assistant Professor, Pediatrics; Assistant Professor, Biochemistry and Molecular Biology. Med Univ of SC, MD 1973; Col of Charleston, BS 1970. Appointed 07/01/82.

McKie, Virgil C., Professor, Pediatrics. Med Univ of SC, MD 1969; Claflin Col, BS 1965. Appointed 07/01/82.

McNeil, Paul L., Professor, Cellular Biology and Anatomy; Professor, Graduate Studies. Univ of CA (Los Angeles), PhD 1980; AZ St Univ, BS 1975. Appointed 08/01/92.

McPherson, James C., Jr., Associate Professor, Emergency Medicine; Associate Professor, Biochemistry and Molecular Biology; Associate Professor, Graduate Studies. Univ of TX Hlth Sci Ctr (Dallas), MD 1960; Univ of TX Hlth Sci Ctr (Dallas), MA 1955; Univ of North TX, BS 1946. Appointed 09/01/63.

McSwiggan-Hardin, Maureen T., Assistant Professor, Psychiatry and Health Behavior. Univ of MD (Baltmr Prof), MSN 1977; Univ of CA (San Frncsco), BSN 1972. Appointed 12/01/91.

Meador, Kimford J., Professor, Neurology; Professor, Pharmacology and Toxicology. Med Col of GA, MD 1976; GA Inst of Tech, BS 1972. Appointed 07/01/84.

Mealing, Henry G., Jr., Professor, Medicine. Med Univ of SC, MD 1963; Univ of GA, BS 1955. Appointed 07/01/69.

Meister, Linda K., Instructor, Oral Rehabilitation. Med Col of GA, DMD 1995; Med Col of GA, BS 1981. Appointed 08/14/96.

Mellick, Larry B., Professor, Emergency Medicine; Professor, Pediatrics. Med Col of OH, MD 1977; OH St Univ, MS 1974; OH St Univ, BS 1972. Appointed 09/15/96.

Mellor, Andrew L., Professor, Medicine; Professor, Cellular Biology and Anatomy; Professor, Graduate Studies. Univ of London, PhD 1979; Univ of Cambridge, MA 1979; Univ of Cambridge, BA 1976. Appointed 08/01/95.

Mensah, George A., Associate Professor, Medicine. Washington Univ, MD 1985; Harvard Univ, AB 1980. Appointed 06/01/95.

Mensah, Laverne G., Assistant Professor, Obstetrics and Gynecology. Washington Univ, MD 1987; MA Inst of Tech, SB 1983. Appointed 07/01/95.

Mercado-Deane, Maria-Gisela, Assistant Professor, Radiology; Assistant Professor, Pediatrics. Univ of PR (Rio Rd), MD 1982; Univ of PR (Rio Rd), BS 1980. Appointed 03/01/93.

Meyer, Carol F., Assistant Professor, Pediatrics; Assistant Professor, Medicine. Med Col of GA, MD 1967; Duke Univ, BA 1957. Appointed 02/01/90.

Meyer, Charles A., Jr., Associate Professor, Psychiatry and Health Behavior. Thomas Jefferson Univ, MD 1967; Villanova Univ, BS 1963. Appointed 02/01/76.

Middleton, Henry M., III, Professor, Medicine. Univ of NC (Chpl Hl), MD 1969; Univ of NC (Chpl Hl), AB 1965. Appointed 07/01/74.

Miler, Veronica, Assistant Professor, Anesthesiology; Assistant Professor, Pediatrics. Tufts Univ, MD 1981; Columbia Univ, BA 1974. Appointed 10/17/94.

Millender, Mallory, Associate Professor, Medicine. Appointed 06/13/98.

Miller, Max D., Professor, Medicine; Professor of Medical Education, Medicine. Univ of Houston, EdD 1972; Aug St Univ, MBA 1985; Univ of Houston, MEd 1969; Lamar Univ, BS 1963. Appointed 07/01/73.

Mills, Carolyn, Instructor, Medicine. , BS 19. Appointed 06/13/98.

Mills, Thomas M., Professor, Physiology and Endocrinology; Professor, Graduate Studies; Professor, Surgery. Univ of IA, PhD 1967. Appointed 07/01/71.

Misch, Donald A., Assistant Professor, Psychiatry and Health Behavior. Rush Univ, MD 1978; Harvard Univ, AB 1974. Appointed 10/01/92.

Mishoe, Leona C., Professor, Respiratory Therapy; Professor, Graduate Studies. Univ of GA, PhD 1994; Aug St Univ, MEd 1981; St Univ of NY Hlth Sci Ctr (Syrcs), BS 1977; St Univ of NY Hlth Sci Ctr (Syrcs), AAS 1975. Appointed 09/01/77.

Mivechi, Nahid F., Assistant Professor, Radiology; Assistant Professor, Biochemistry and Molecular Biology; Assistant Professor, Graduate Studies. FL St Univ, PhD 1981; FL St Univ, MS 1977; FL St Univ, BS 1974. Appointed 11/01/95.

Mobley, Regina C., Assistant Professor, Medical Technology; Assistant Professor, Graduate Studies. Med Col of GA, MHEd 1981; Clemson Univ, BS 1976. Appointed 02/01/83.

Moen-Nogueras, Cynthia S., Associate Professor, Parent-Child Nursing. Univ of WA, MN 1978; Univ of MD (Baltmr Prof), BSN 1970. Appointed 09/01/92.

Mohan, Ramanujam, Assistant Professor, Psychiatry and Health Behavior. Univ of Madras, MBBS 1972. Appointed 07/01/88.

Molinaro, John R., Assistant Professor, Anesthesiology. Emory Univ, MD 1969; Siena Col, BS 1965. Appointed 01/01/94.

Moncher, Frank J., Assistant Professor, Psychiatry and Health Behavior. Univ of SC (Columbia), PhD 1992; Kent St Univ, BA 1986. Appointed 12/01/92.

Mondy, J. Sheppard, III, Assistant Professor, Surgery. Med Col of VA, MD 1989; Univ of VA, BA 1985. Appointed 09/01/97.

Mongan, Patrick F., Assistant Professor, Family Medicine. Univ of Miami, MD 1974. Appointed 08/01/80.

Monti, Elizabeth J., Assistant Professor, Adult Nursing. Case Wstrn Resv Univ, MSN 1990; Univ of the St of NY (Rgts Col), BSN 1988; Ursuline Col, BA 1986; Palm Beach Jr Col, AS 1978. Appointed 08/15/95.

Moore, Donna B., Assistant Professor, Pediatrics. St Univ of NY Hlth Sci Ctr (Syrcs), MD 1993; Hobart-Wm Smth Col, BS 1987. Appointed 08/15/96.

Moore, H. Victor, Professor, Surgery. Wake Forest Univ, MD 1963; Wake Forest Univ, BS 1959. Appointed 08/01/73.

Moskophidis, Demetrius, Assistant Professor, Medicine; Assistant Professor, Biochemistry and Molecular Biology; Assistant Professor, Graduate Studies. Hamburg Univ, MD 1986. Appointed 03/01/96.

Mosley, Letha J., Assistant Professor, Occupational Therapy. Univ of OK (Norman), MEd 1993; Univ of OK Hlth Sci Ctr, BS 1980. Appointed 02/15/94.

Moss, Patricia B., Assistant Professor, Mental Health/Psychiatric Nursing. Med Col of GA, MSN 1977; Aug St Univ, MEd 1994; Clemson Univ, BSN 1973. Appointed 09/01/95.

Mruthinti, Satyanarayana S., Associate Professor, Biochemistry and Molecular Biology; Associate Professor, Ophthalmology. Mahara Saya Univ Brda, PhD 1982; Mahara Saya Univ Brda, MSc 1977; Andhra Univ, BSc 1974. Appointed 04/01/88.

Mullins, David E., Assistant Professor, Medicine. Med Col of VA, MD 1970; Emory & Hnry Col, BA 1966. Appointed 09/22/97.

Mulloy, Anthony L., Associate Professor, Medicine. Purdue Univ, PhD 1978; Chicago Col of Osteopthc Med, DO 1984; Univ of CA (Davis), MS 1974; TX Agric & Mech Univ (Main Campus), BS 1973. Appointed 07/01/90.

Mulloy, Laura L., Associate Professor, Medicine. Chicago Col of Osteopthc Med, DO 1984; MI St Univ, BS 1980. Appointed 07/01/90.

Mulroy, Michael J., Professor, Cellular Biology and Anatomy; Professor, Graduate Studies. Univ of CA (Berkeley), PhD 1968. Appointed 10/16/80.

Mundy, Wanda M., Associate Professor, Radiologic Sciences; Assistant Professor, Radiology; Associate Professor, Graduate Studies. Univ of GA, EdD 1988; Med Col of GA, MHEd 1977; Union Col, BS 1963. Appointed 10/15/73.

Munn, David H., Associate Professor, Pediatrics; Associate Professor, Medicine; Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Med Col of GA, MD 1984; Mercer Univ, BA 1978. Appointed 07/01/90.

Murdock, Eugene J., Jr., Instructor, Anesthesiology; Instructor, Adult Nursing. St Univ of NY (Bflo), MSN 1984; Med Col of GA, BSN 1977; North GA Col, BS 1975; North GA Col, BS 1974. Appointed 07/01/92.

Murphy, Marguerite J., Assistant Professor, Adult Nursing. GA St Univ, MS 1989; Berea Col, BSN 1976. Appointed 09/01/96.

Murrell, Kevin J., Assistant Professor, Psychiatry and Health Behavior. Med Col of GA, MD 1977; Aug St Univ, BA 1973. Appointed 07/01/82.

Murro, Anthony M., Associate Professor, Neurology. St Univ of NY Hlth Sci Ctr (Brklyn), MD 1981; Rensselaer Polytech Inst, BS 1977. Appointed 07/01/86.

Myers, David R., Merritt Professor, Pediatric Dentistry; Professor, Graduate Studies. West VA Univ, DDS 1965; Univ of NE Med Ctr, MS 1970. Appointed 07/01/70.

Myers, Michael L., Professor, Oral Rehabilitation. Med Univ of SC, DMD 1975; Clemson Univ, BS 1972. Appointed 07/01/90.

Nair, Cherukantath N., Associate Professor, Medicine; Associate Professor, Graduate Studies. Univ of CO (Bldr), PhD 1968; Gov Vic Col, BS 1956. Appointed 07/01/73.

Nayyar, Arun B., Associate Professor, Oral Rehabilitation. Univ of Calcutta, BDS 1969; Med Col of GA, DMD 1974. Appointed 07/01/71.

Neal, Ruth E., Assistant Professor, Radiology. Howard Univ, MD 1973; Xavier Univ (LA), BS 1969. Appointed 09/01/77.

Nelson, Steven K., Assistant Professor, Oral Rehabilitation. OR Hlth Sci Univ, DMD 1979; Univ of OR, BS 1975. Appointed 07/13/95.

Nesbit, Robert R., Jr., Professor, Surgery. Univ of Rochester, MD 1965. Appointed 08/01/74.

Newman, Cheryl L., Associate Professor, Medicine. Med Col of GA, MD 1982; Wake Forest Univ, BS 1976. Appointed 08/01/87.

Nichols, Fenwick T., III, Professor, Neurology. Med Col of GA, MD 1976; Duke Univ, BA 1972. Appointed 07/01/82.

Nichols, Martha E., Assistant Professor, Neurology. Med Univ of SC, MD 1985; Duke Univ, BS 1979. Appointed 07/01/92.

Nieves, Nestor L., Assistant Professor, Radiology. Univ of PR (Rio Rd), MD 1977; Univ of PR, BS 1973. Appointed 07/01/98.

Nix, Lucy B., Instructor, Oral Rehabilitation. Med Col of GA, DMD 1997; North GA Col, BS 1993. Appointed 07/10/97.

Nixon, George A., Associate Professor, Family Medicine. Meharry Med Col, MD 1977; Dartmouth Col, BA 1973. Appointed 08/13/81.

Nugent, Katherine E., Associate Professor, Parent-Child Nursing; Associate Professor, Graduate Studies. TX Agric & Mech Univ (Main Campus), PhD 1987; TX Woman's Univ, MSN 1977; TX Woman's Univ, BSN 1970. Appointed 07/01/92.

O'Conner, James L., Associate Professor, Physiology and Endocrinology; Associate Professor, Graduate Studies. Univ of GA, PhD 1971; Univ of GA, MS 1966; Univ of GA, BS 1964. Appointed 03/01/72.

O'Connor, Randolph P., Jr., Associate Professor, Oral Rehabilitation. Univ of AL (Birmnghm), DMD 1963; Univ of AL (Tuscaloosa), BS 1959. Appointed 10/01/80.

O'Dell, Norris L., Associate Professor, Oral Biology and Maxillofacial Pathology; Assistant Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Med Col of GA, PhD 1972; Med Col of GA, DMD 1975; Med Col of GA, MS 1968; Emory Univ, BA 1966. Appointed 07/01/72.

O'Neal, Kyle H., Assistant Professor, Oral and Maxillofacial Surgery. Univ of TN (Memphis), DDS 1987; Univ of TN (Chatnga), BA 1983. Appointed 10/15/92.

Oblak, Thomas G., Research Scientist, Cellular Biology and Anatomy. West Liberty St Col, BA 1972. Appointed 07/01/82.

Ogilvie, Mariann, Assistant Professor, Physical Therapy; Assistant Professor, Allied Health Sciences. GA Inst of Tech, MS 1982; GA Inst of Tech, BS 1978; Aug St Univ, AA 1975. Appointed 09/15/93.

Ogle, Thomas F., Professor, Physiology and Endocrinology; Professor, Graduate Studies. WA St Univ, PhD 1973; WA St Univ, MS 1968; Purdue Univ, BS 1966. Appointed 08/15/74.

Oliver, Robert E., Assistant Professor, Anesthesiology; Assistant Professor, Pediatrics. LA St Univ & Agric & Mech Col, MD 1988; LA St Univ (New Orlns), DDS 1983; LA St Univ (Baton Rg), BS 1979. Appointed 10/01/92.

Oliver, Trudy L., Assistant Professor, Associated Dental Sciences. GA Southern Univ, MHS 1994; Savannah St Col, BBA 1991; Armstrong St Col, AS 1987. Appointed 10/15/94.

Orr, T. Edward, Assistant Research Scientist, Psychiatry and Health Behavior. Univ of GA, PhD 1988; Univ of GA, MS 1985; Univ of GA, BS 1977. Appointed 05/01/91.

Ostric, Elizabeth J., Assistant Adjunct Professor, Pediatrics. Washington Univ, MHA 1983; Smith Col, BA 1980. Appointed 03/15/96.

Owens, Scott G., Assistant Research Scientist, Pediatrics. FL St Univ, PhD 1994; Univ of South FL, MA 1980; Univ of North CO, BA 1974. Appointed 09/01/96.

Ownby, Dennis R., Professor, Pediatrics. Med Col of OH, MD 1972; OH Univ, BS 1969. Appointed 01/01/98.

Pai, Ganesh P., Professor, Surgery. Univ of Mysore, MBBS 1968; Univ of Mysore, MS 1972. Appointed 07/01/78.

Pallas, Christopher W., Assistant Professor, Medicine. Wake Forest Univ, MD 1982; Univ of TN (Chatnga), BA 1978. Appointed 07/01/88.

Park, Yong D., Associate Professor, Neurology; Associate Professor, Pediatrics. Yonsei Univ, MD 1976; Yonsei Univ, BS 1972. Appointed 10/15/91.

Parr, Gregory R., Professor, Oral Rehabilitation. St Univ of NY Hlth Sci Ctr (Syrcs), DDS 1972; Med Col of GA, MS 1980. Appointed 07/01/77.

Pashley, David H., Regents' Professor, Oral Biology and Maxillofacial Pathology; Professor, Physiology and Endocrinology; Professor, Graduate Studies. Univ of OR Hlth Sci Ctr, DMD 1964; Univ of Rochester, PhD 1971; Univ of Portland, BS 1960. Appointed 10/15/70.

Pashley, Edna L., Associate Professor, Oral Diagnosis and Patient Services; Associate Professor, Pediatric Dentistry. Med Col of GA, DMD 1978; Univ of OR, MEd 1963; Univ of Portland, BS 1961. Appointed 07/01/80.

Passmore, Gregory G., Associate Professor, Radiologic Sciences. Univ of MO (Columbia), PhD 1996; Univ of MO (Columbia), MS 1987; Northeast MO St Univ, MS 1980; Northeast MO St Univ, BS 1978. Appointed 08/15/90.

Pathiraja, Ananda P., Assistant Professor, Psychiatry and Health Behavior. Univ of Ceylon, MBBS 1972. Appointed 09/01/89.

Payne, Franklin E., Jr., Associate Professor, Family Medicine. Med Col of GA, MD 1969; Mercer Univ, BS 1965. Appointed 07/01/75.

Payne, Peter M., Assistant Professor, Obstetrics and Gynecology. Med Col of GA, MD 1964; Univ of GA, BS 1964. Appointed 07/01/87.

Peacock, Lamar B., Assistant Professor, Medicine. Univ of AL (Birmnghm), MD 1989; Vanderbilt Univ, BS 1985. Appointed 07/01/92.

Pearson-Shaver, Anthony L., Associate Professor, Pediatrics. Univ of Cincinnati, MD 1979; Wesleyan Univ, BA 1974. Appointed 08/01/86.

Pendergrast, Robert A., Jr., Associate Professor, Pediatrics. Med Col of GA, MD 1983; Johns Hopkins Univ, MPH 1988; Furman Univ, BA 1979. Appointed 03/01/97.

Penney, Don W., Professor, Emergency Medicine. McMaster Univ, MD 1982; McGill Univ, MSc 1979; Univ of Toronto, BSc 1974. Appointed 05/01/98.

Pereira, Graham I., Assistant Professor, Pediatrics; Assistant Professor, Neurology. Univ of PR, MD 1979; Univ of PR, BS 1975. Appointed 08/01/94.

Perry, David W., Assistant Professor, Periodontics. Med Col of GA, DMD 1984; Univ of GA, BS 1980. Appointed 08/01/86.

Perry, Jan F., Professor, Physical Therapy; Professor, Graduate Studies. Univ of GA, EdD 1988; Univ of NC (Chpl Hl), MA 1973; Univ of NC (Chpl Hl), BS 1966. Appointed 07/01/78.

Phillips, William G., Assistant Professor, Family Medicine. Univ of FL, MD 1984; Univ of FL, BS 1980. Appointed 07/01/90.

Philpot, Thomas E., Assistant Professor, Anesthesiology. Med Col of GA, MD 1986; Emory Univ, BS 1981; Emory Univ, AA 1979. Appointed 07/01/90.

Pless, Betsy S., Assistant Professor, Adult Nursing. GA St Univ, PhD 1997; Univ of CO (Bldr), MS 1981; Univ of SC (Columbia), BSN 1976. Appointed 09/14/87.

Pollock, David M., Assistant Professor, Surgery; Assistant Professor, Physiology and Endocrinology; Assistant Professor, Graduate Studies. Univ of Cincinnati, PhD 1983; Univ of Evansville, BS 1978. Appointed 12/01/95.

Pollock, Jennifer S., Assistant Professor, Pharmacology and Toxicology; Assistant Professor, Graduate Studies. Univ of NC (Chpl Hl), PhD 1987; Univ of Cincinnati, MS 1983; Univ of Evansville, BS 1979. Appointed 12/01/95.

Porterfield, Susan P., Professor, Physiology and Endocrinology; Professor, Graduate Studies. OH St Univ, PhD 1973; OH St Univ, MS 1967; OH St Univ, BS 1965. Appointed 06/15/76.

Porubsky, Edward S., Professor, Surgery. OH St Univ, MD 1966; John Carroll Univ, BS 1962. Appointed 04/01/73.

Potter, Brad J., Associate Professor, Oral Diagnosis and Patient Services; Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Graduate Studies. Northwestern Univ, DDS 1979; Northwestern Univ, MS 1991; CO St Univ, BS 1975. Appointed 10/15/91.

Powell, J. Nicholas, Assistant Professor, Periodontics. Univ of TN (Memphis), DDS 1965; Univ of NE (Lincoln), MS 1971. Appointed 07/01/71.

Powell, Robert S., Assistant Professor, Orthodontics. Med Col of GA, DMD 1981; Aug St Univ, BS 1977. Appointed 09/01/88.

Prasad, Puttur D., Assistant Professor, Obstetrics and Gynecology; Assistant Professor, Biochemistry and Molecular Biology. Indian Inst of Sci, PhD 1992; Mangalore Univ, MSc 1986; Mangalore Univ, BSc 1983. Appointed 07/01/97.

Prendergast, Nancy D., Professor, Occupational Therapy; Professor, Graduate Studies. Univ of GA, EdD 1984; Temple Univ, MEd 1970; OH St Univ, BS 1954. Appointed 07/01/71.

Prince, Lori H., Instructor, Health Information Management. Med Col of GA, BS 1993; Spelman Col, BS 1984. Appointed 07/17/96.

Prisant, L. Michael, Professor, Medicine. Med Col of GA, MD 1977; Emory Univ, BA 1971. Appointed 07/01/82.

Pruitt, J. Ned, II, Assistant Professor, Neurology. Med Col of GA, MD 1989; Clemson Univ, BS 1985. Appointed 08/01/95.

Pursley-Crotteau, M. Suzanne, Assistant Professor, Mental Health/Psychiatric Nursing; Assistant Professor, Graduate Studies. Med Col of GA, PhD 1995; Med Col of GA, MSN 1981; Med Col of GA, BSN 1977; Aug St Univ, ADN 1972. Appointed 09/01/95.

Puryear, James B., Professor of Health Education, Student Affairs. FL St Univ, PhD 1969; MS St Univ, MEd 1961; MS St Univ, BS 1960. Appointed 07/01/69.

Quinn, Mary Ellen B., Assistant Professor, Community Nursing. Univ of GA, PhD 1993; GA St Univ, MS 1980; Med Col of GA, BSN 1975. Appointed 09/01/87.

Rahn, Daniel W., Professor, Medicine. Yale Univ, MD 1976; Yale Univ, BA 1972. Appointed 08/05/91.

Rao, Raghunatha N., Professor, Pathology. Andhra Univ, MD 1961; Med Col (Madras), MBBS 1956. Appointed 07/01/72.

Rasmussen, Howard, Professor, Medicine; Professor, Cellular Biology and Anatomy; Professor, Surgery; Professor, Graduate Studies. Harvard Univ, MD 1952; Rockefeller Univ, PhD 1959; Gettysburg Col, AB 1948. Appointed 06/01/93.

Rausch, Jeffrey L., Professor, Psychiatry and Health Behavior. Med Col of GA, MD 1978; Mercer Univ, BS 1974. Appointed 08/15/91.

Rawson, James V., Assistant Professor, Radiology. Tufts Univ, MD 1989; Tufts Univ, BS 1983. Appointed 07/01/95.

Ray, Patty G., Assistant Research Scientist, Neurology. Med Col of GA, PhD 1987; Valdosta St Col, BS 1979; South GA Col, AS 1976. Appointed 07/01/90.

Redd, Shirlie A., Assistant Professor, Anesthesiology. Med Col of GA, MD 1985; Med Col of GA, BSN 1980; Med Col of GA, ADN 1977. Appointed 10/23/89.

Reese, Andy C., Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Univ of MO (Columbia), PhD 1970; Univ of OK (Norman), BS 1964. Appointed 09/01/75.

Reimche, Donavon L., Instructor, Physical Therapy. Howard Univ, BS 1976. Appointed 07/01/88.

Renew, Margaret M., Assistant Professor, Pediatrics. Med Col of GA, MD 1987; Berry Col, BS 1981. Appointed 09/01/91.

Revolinski, Patricia H., Instructor, Adult Nursing. Med Col of GA, MSN 1984; Med Col of GA, BSN 1978; Aug St Univ, AA 1976. Appointed 09/01/96.

Reyes, Lynnette K., Instructor, Radiologic Sciences. Med Col of GA, BS 1988. Appointed 08/01/88.

Ringle, Robert D., Senior Research Scientist, Oral Rehabilitation. Aug St Univ, BA 1991. Appointed 06/01/75.

Rinker, Geraldine, Instructor, Pathology; Professor, Medical Technology. Univ of GA, EdD 1990; Aug St Univ, MBA 1976; Med Col of GA, MS 1964; Univ of KY, BA 1959. Appointed 10/04/67.

Rissing, J. Peter, Professor, Medicine. Snt Louis Univ, MD 1969; IN Univ (Bloomington), AB 1965. Appointed 09/01/76.

Rivera-Morales, Warren C., Associate Professor, Oral Rehabilitation. Univ of PR, DMD 1982; Univ of PR, BS 1981. Appointed 09/01/89.

Rivner, Michael H., Associate Professor, Neurology. Emory Univ, MD 1978; Duke Univ, BA 1972. Appointed 07/01/82.

Roberts, Alan, Associate Professor, Medicine. Case Wstrn Resv Univ, MD 1956; Oberlin Col, AB 1952. Appointed 07/15/92.

Robinson, Sharon E., Instructor, Physical Therapy. Med Col of GA, BS 1988. Appointed 10/01/96.

Robinson, Vincent J. B., Associate Professor, Medicine; Associate Professor, Radiology. Univ of the West Indies, MBBS 1976. Appointed 04/01/94.

Rogers, David A., Associate Professor, Surgery; Associate Professor, Pediatrics. Univ of South FL, MD 1984; Univ of South FL, BS 1980. Appointed 07/01/90.

Rogers, Laura Q., Assistant Professor, Medicine; Assistant Professor, Pediatrics. Univ of South FL, MD 1984; Erskine Col, BS 1980. Appointed 08/01/94.

Rohe, David A., Assistant Professor, Physical Therapy. Univ of NC (Chpl Hl), MPH 1971; OH St Univ, BS 1965. Appointed 09/15/96.

Roper, B. Kenneth, Assistant Professor, Pathology; Assistant Professor, Medical Technology. Med Col of GA, PhD 1969; Med Col of GA, MA 1965; Berea Col, BA 1961. Appointed 11/01/74.

Rosema, Pamela E., Instructor, Respiratory Therapy; Instructor, Anesthesiology. Med Univ of SC, MHS 1992; Univ of Toledo, BS 1980; Univ of Toledo, AS 1979. Appointed 03/15/85.

Rozovich, Jennifer J., Instructor, Parent-Child Nursing. Univ of KY, MSN 1986; Univ of KY, BSN 1979. Appointed 09/01/96.

Rubin, Joseph W., Professor, Surgery. McGill Univ, MDCM 1965; McGill Univ, BS 1961. Appointed 07/01/73.

Rubin, Richard M., Assistant Professor, Ophthalmology. Univ of MD (Baltmr Prof), MD 1985; Univ of MD (Col Park), BS 1981. Appointed 07/01/97.

Rueggeberg, Frederick A., Professor, Oral Rehabilitation; Professor, Oral Biology and Maxillofacial Pathology; Professor, Graduate Studies. Emory Univ, DDS 1979; Univ of MI (Ann Arbor), MS 1987; Univ of DE, BS 1974. Appointed 07/01/87.

Rumph, Frank M., Sr., Associate Professor, Family Medicine. Med Col of GA, MD 1971; Ft Valley St Col, BS 1965. Appointed 02/01/92.

Russell, Carl M., Associate Professor, Oral Diagnosis and Patient Services; Associate Professor, Biostatistics; Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Graduate Studies. Univ of AL (Birmnghm), DMD 1983; Univ of AL (Birmnghm), PhD 1992; Univ of AL (Birmnghm), MS 1988; Auburn Univ, BS 1979. Appointed 08/01/93.

Rutlen, David L., Creel Professor, Medicine. Harvard Univ, MD 1973. Appointed 01/01/92.

Ryan, James W., Professor, Anesthesiology; Professor, Pharmacology and Toxicology; Professor, Graduate Studies. Cornell Univ Med Ctr, MD 1961; Univ of Oxford, DPhil 1967; Dartmouth Col, AB 1957. Appointed 01/12/95.

Sabio, Hernan, Professor, Pediatrics. Univ of PR (Rio Rd), MD 1970; Univ of MI (Central Off), MS 1974; Univ of PR (Rio Rd), BS 1966. Appointed 09/01/85.

Sadofsky, Moshe J., Assistant Professor, Medicine; Assistant Professor, Biochemistry and Molecular Biology. Univ of PA, MD 1985; Univ of PA, PhD 1985; MA Inst of Tech, BS 1978; MA Inst of Tech, BS 1978. Appointed 08/01/96.

Salazar, William H., Associate Professor, Medicine; Associate Professor, Psychiatry and Health Behavior. Natl Univ of Colombia, MD 1983. Appointed 11/13/97.

Salzer, Judith S., Assistant Professor, Parent-Child Nursing. VA Commnwlth Univ, MS 1979; VA Commnwlth Univ, BSN 1977. Appointed 02/01/95.

Sanchez, Anne T., Assistant Professor, Orthodontics. Med Col of GA, DMD 1981; Univ of GA, BS 1966. Appointed 07/01/83.

Sangueza, Omar P., Associate Professor, Pathology; Associate Professor, Medicine. Univ of Valencia, MD 1980. Appointed 10/17/94.

Sarkar, Nurul H., Professor, Medicine; Professor, Graduate Studies; Professor, Biochemistry and Molecular Biology. Univ of Calcutta, PhD 1966; Univ of Calcutta, MSc 1960; Berhampore K N Med Col, BSc 1957. Appointed 03/15/86.

Sathyanarayana,, Associate Professor, Radiology; Associate Professor, Radiologic Sciences. Karnatak Univ, MBBS 1971. Appointed 04/01/79.

Sato, Susan D., Assistant Professor, Psychiatry and Health Behavior. WA St Univ, PhD 1984; WA St Univ, MS 1981; Univ of the Pacific, BA 1978. Appointed 07/01/87.

Satya-Prakash, Kanithahalli L., Associate Professor, Pathology. Univ of Mysore, PhD 1976; Univ of Mysore, MS 1970; Univ of Mysore, BS 1968. Appointed 03/01/86.

Saunders, Jana C., Assistant Professor, Mental Health/Psychiatric Nursing. GA St Univ, PhD 1997; Univ of VA, MSN 1982; Univ of NM, BSN 1974. Appointed 09/01/97.

Schade, Robert R., Professor, Medicine. George Washington Univ, MD 1973; Colgate Univ, BA 1969. Appointed 08/15/94.

Schafer, Tara E., Assistant Professor, Pediatric Dentistry. Med Col of GA, DMD 1995; Med Col of GA, MS 1998. Appointed 07/10/97.

Schmacht, Dale C., Assistant Professor, Surgery. Univ of South AL, MD 1992; Univ of South AL, PhD 1990; Univ of South AL, BS 1986; Augustana Col, BA 1984. Appointed 11/01/97.

Schoenlein, Patricia V., Assistant Professor, Cellular Biology and Anatomy; Assistant Professor, Graduate Studies; Assistant Professor, Radiology. Univ of SC (Columbia), PhD 1988; Univ of SC (Columbia), MS 1981; Univ of SC (Columbia), BS 1978. Appointed 12/01/92.

Schuster, George S., Merritt Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Cellular Biology and Anatomy; Professor, Graduate Studies; Merritt Professor, Oral Rehabilitation. Northwestern Univ, DDS 1966; Univ of Rochester, PhD 1970; Northwestern Univ, MS 1966; Washington Univ, AB 1961. Appointed 07/01/70.

Scott, David F., Associate Professor, Biochemistry and Molecular Biology; Associate Professor, Graduate Studies. IN Univ (Bloomington), PhD 1968; Northeastern Univ, BA 1963. Appointed 07/01/71.

Sebastian, C. Simon, Associate Professor, Psychiatry and Health Behavior. Snt Johns Med, MBBS 1972. Appointed 07/01/89.

Sekul, Elizabeth A., Assistant Professor, Neurology; Assistant Professor, Pediatrics. Univ of MS Med Ctr, MD 1986; Millsaps Col, BS 1982. Appointed 08/01/94.

Sepulveda, Sebastian G., Assistant Professor, Medicine. Univ of Chile, MD 1988; Norwalk Com Col, AA 1987. Appointed 10/06/97.

Sethi, Kapil D., Professor, Neurology. Punjabi Univ, MBBS 1976. Appointed 12/01/85.

Seyed-Mozaffari, Mahmood, Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Oral Rehabilitation; Associate Professor, Pharmacology and Toxicology; Associate Professor, Graduate Studies. Univ of South AL, PhD 1988; Univ of AL (Birmnghm), DMD 1991; East Carolina Univ, BS 1982; Univ of South AL, BS 1984. Appointed 07/14/94.

Shah, Vipul B., Associate Professor, Medicine. Univ of Baroda, MBBS 1982; Univ of Baroda, MD 1987. Appointed 10/21/94.

Shaikh, Abdul H., Associate Professor, Medical Technology; Associate Professor, Graduate Studies. Med Col of GA, MS 1972; Univ of Karachi, MS 1967; Univ of Karachi, BS 1966. Appointed 01/01/72.

Sharawy, Mohamed, Professor, Oral Biology and Maxillofacial Pathology; Professor, Cellular Biology and Anatomy; Professor, Graduate Studies; Professor, Oral and Maxillofacial Surgery. Univ of Cairo, BDS 1962; Univ of Rochester, PhD 1970. Appointed 08/01/70.

Shaver, Ellen G., Assistant Professor, Surgery. Georgetown Univ, MD 1989; Lake Forest Col, BA 1985. Appointed 08/01/96.

Sheen, Geoffrey W., Assistant Professor, Oral Rehabilitation. Univ of NC (Chpl Hl), DDS 1993; Univ of IA, MS 1997. Appointed 08/01/95.

Sheils, W. Chris, Associate Professor, Radiology. Med Col of GA, MD 1972; Univ of GA, BS 1969. Appointed 01/01/91.

Shevitz, Stewart A., Associate Professor, Psychiatry and Health Behavior. Univ of MD (Baltmr Prof), MD 1971; Univ of CO (Denver), MSHA 1991; Univ of VA, BA 1967. Appointed 08/01/92.

Shimp, Robert G., Assistant Professor, Physiology and Endocrinology; Assistant Professor, Surgery. Auburn Univ, DVM 1966; Univ of FL, MS 1975. Appointed 06/01/74.

Shrout, Michael K., Associate Professor, Oral Diagnosis and Patient Services; Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Graduate Studies. Washington Univ, DMD 1975; Univ of Tulsa, BS 1967. Appointed 11/01/89.

Sickles, Dale W., Professor, Cellular Biology and Anatomy; Professor, Graduate Studies. West VA Univ, PhD 1978; West VA Univ, AB 1974. Appointed 08/10/78.

Simons, Paul K., Assistant Professor, Orthodontics. Med Col of VA, DDS 1969. Appointed 08/01/81.

Singh, Baldev B., Professor, Oral Biology and Maxillofacial Pathology; Professor, Graduate Studies. Univ of Rochester, PhD 1970; Univ of Bombay, BDS 1955; Univ of Rochester, MS 1961. Appointed 07/01/71.

Singh, Manjit, Professor, Medicine. Punjabi Univ, MBBS 1959; Punjabi Univ, MD 1964. Appointed 07/01/73.

Sinha, Dharm B., Assistant Professor, Psychiatry and Health Behavior. Univ of Bihar, MBBS 1972; Magadh Univ, BSc 1967; Univ of Patna, BSc 1966. Appointed 07/01/87.

Sisk, Allen L., Professor, Oral and Maxillofacial Surgery; Associate Professor, Surgery. Emory Univ, DDS 1974; Emory Univ, BS 1970. Appointed 10/01/81.

Slayden, Scott M., Assistant Professor, Obstetrics and Gynecology. Tulane Univ, MD 1990; Vanderbilt Univ, BS 1985. Appointed 08/15/97.

Smith, Arthur M., Professor, Surgery. Univ of MD (Baltmr Prof), MD 1963; Cornell Univ (Ithaca), AB 1959. Appointed 09/01/76.

Smith, James K., Associate Professor, Medicine. Med Col of GA, MD 1979; GA Inst of Tech, BS 1975. Appointed 07/01/83.

Smith, Joseph R., Professor, Surgery. Univ of WA, MD 1967; Univ of WA, BS 1963. Appointed 03/01/86.

Smith, Roger P., Professor, Obstetrics and Gynecology. Northwestern Univ, MD 1967; Northwestern Univ, BSM 1969; Purdue Univ, BS 1969. Appointed 11/01/85.

Smith, Sherry P., Instructor, Health Information Management. Med Col of GA, BS 1996. Appointed 03/01/97.

Smith, Sylvia B., Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies; Associate Professor, Ophthalmology. Univ of South AL, PhD 1987; Univ of IL (Urbana), MA 1979; Univ of South AL, BS 1985; Auburn Univ, BS 1977. Appointed 07/01/91.

Sodomka, Patricia F., Assistant Adjunct Professor, Physical Therapy. OH St Univ, MS 1978; OH St Univ, BS 1972. Appointed 01/20/87.

Sohal, G. S., Professor, Cellular Biology and Anatomy; Professor, Graduate Studies. LA St Univ Med Ctr, PhD 1973; Punjab Agric Univ, BS 1969. Appointed 08/18/75.

Solursh, Diane S., Associate Professor, Psychiatry and Health Behavior. York Univ, PhD 1973; Univ of British Columbia, MA 1969; Univ of British Columbia, BA 1966. Appointed 05/01/86.

Solursh, Lionel P., Professor, Psychiatry and Health Behavior. Univ of Toronto, MD 1959; Univ of Toronto, BA 1955. Appointed 05/01/86.

Spaulding, Vernon C., Professor, Medicine. Howard Univ, MD 1969; Univ of CA (Berkeley), BS 1965. Appointed 01/06/97.

Speir, William A., Jr., Professor, Medicine. Med Col of GA, MD 1965; Univ of GA, BS 1961. Appointed 07/01/71.

Spencer, Michael A., Assistant Professor, Medicine. Med Col of GA, MD 1984; Loyola Univ, BS 1980. Appointed 07/01/87.

Sprague, Thomas E., Instructor, Anesthesiology; Instructor, Adult Nursing. Cntrl Ml Univ, MA 1984; Univ of WI (Oshkosh), BSN 1976. Appointed 06/01/92.

Sprinkle, Terry J.C., Sr., Professor, Neurology; Professor, Biochemistry and Molecular Biology; Professor, Graduate Studies. Univ of FL, PhD 1974; Univ of FL, MEd 1970; Univ of FL, BS 1966. Appointed 04/01/78.

Stachura, Maximillian E., Professor, Medicine; Professor, Physiology and Endocrinology. Harvard Univ, MD 1965; Hamilton Col, BA 1961. Appointed 05/01/81.

Stafford, Chester T., Professor, Medicine; Professor, Pediatrics. Univ of AL (Birmnghm), MD 1964; Univ of AL (Tuscaloosa), BS 1960. Appointed 04/01/78.

Stallings, Judith B., Instructor, Physician Assistant. Med Col of GA, BS 1990; Aug St Univ, BS 1986. Appointed 11/15/96.

Steadman, Clayton D., Assistant Professor of Medical Jurisprudence and Ethics, Medicine; Instructor, Health Information Management. Emory Univ, JD 1982; Clemson Univ, BA 1978. Appointed 11/01/85.

Stec, Thomas L., Instructor, Physical Therapy. West VA Univ, BS 1980; Wheeling Col, BS 1975. Appointed 11/15/90.

Steele, John C.H., Jr., Professor, Pathology. Duke Univ, PhD 1977; Duke Univ, MD 1978; Duke Univ, BS 1971. Appointed 12/01/81.

Steflik, David E., Associate Professor, Surgery; Professor, Cellular Biology and Anatomy; Professor, Graduate Studies. Univ of GA, EdD 1987; St Univ of NY (Bnghmptn), MA 1978; Univ of PA, BA 1974. Appointed 07/01/84.

Stein, Peter P., Associate Professor, Medicine. Univ of PA, MD 1981; Univ of Rochester, BA 1977. Appointed 06/01/94.

Stein, Sidney H., Assistant Professor, Periodontics; Assistant Professor, Oral Biology and Maxillofacial Pathology; Assistant Professor, Graduate Studies. Washington Univ, DMD 1982; Univ of Rochester, PhD 1992; Univ of Rochester, MS 1989; Washington Univ, BA 1977. Appointed 11/01/91.

Steinberg, Sidney R., Associate Professor, Surgery. Univ of KY, MD 1965; Transylvania Univ, BA 1961. Appointed 08/01/94.

Steinhart, Curt M., Professor, Pediatrics; Professor, Surgery; Professor, Anesthesiology. Boston Univ, MD 1978; St Univ of NY (Bflo), BA 1974. Appointed 07/01/83.

Stephens, Kristine L., Instructor, Library. Univ of SC (Columbia), MLIS 1995; Univ of SC (Columbia), BA 1989. Appointed 07/01/98.

Stoming, Terrance A., Associate Professor, Biochemistry and Molecular Biology; Associate Professor, Graduate Studies. Purdue Univ, PhD 1972; Purdue Univ, MS 1969; Purdue Univ, BS 1966. Appointed 06/23/75.

Stoney, S. David, Jr., Associate Professor, Physiology and Endocrinology; Associate Professor, Graduate Studies. Tulane Univ, PhD 1966; Univ of SC (Columbia), BS 1962. Appointed 07/15/70.

Strain, Jon D., Associate Professor, Oral Diagnosis and Patient Services. Emory Univ, DDS 1967; Emory Univ, MAT 1977; Emory Univ, MBA 1988. Appointed 09/01/93.

Strong, William B., Charbonnier Professor, Pediatrics. Hahnemann Med Col & Hosp, MD 1962; Col of the Holy Cross, BS 1958. Appointed 06/01/69.

Stubbs, David M., Associate Professor, Radiology; Associate Professor, Radiologic Sciences. Med Col of GA, MD 1967; Berry Col, BA 1963. Appointed 09/01/88.

Sunde, Elizabeth R., Assistant Professor, Psychiatry and Health Behavior; Assistant Professor, Pediatrics. Med Univ of SC, MD 1978; Univ of SC (Coast Car), BA 1973. Appointed 06/01/84.

Swift, Thomas R., Professor, Neurology; Professor, Cellular Biology and Anatomy. Cornell Univ Med Ctr, MD 1965; Trinity Col, BA 1961. Appointed 07/01/73.

Taft, Arthur A., Associate Professor, Respiratory Therapy. Med Col of GA, PhD 1998; Armstrong St Col, MHS 1985; Univ of TX (Austin), BA 1975. Appointed 07/01/85.

Takeda, Yoshihiko, Assistant Professor, Medicine. Keio Univ, MD 1978; Keio Univ, DMS 1986. Appointed 08/01/92.

Tannehill, William B., Assistant Professor, Radiology. East Carolina Univ, MD 1991; East Carolina Univ, MS 1987; Univ of NC (Cht), BS 1983. Appointed 07/01/97.

Taylor, Benjamin H., Jr., Instructor, Physician Assistant. Univ of OK Hlth Sci Ctr, BS 1991; VA St Univ, BS 1988. Appointed 08/14/97.

Tedesco, Francis J., Professor, Medicine; Professor, Graduate Studies. Snt Louis Univ, MD 1969; Fairfield Univ, BS 1965. Appointed 08/01/78.

Tho, Sandra P. T., Associate Professor, Obstetrics and Gynecology. Univ of Saigon, MD 1965; Univ of Saigon, BS 1958. Appointed 11/16/81.

Thompson, Denise W., Instructor, Adult Nursing. Med Col of GA, MSN 1994; Med Col of GA, BSN 1989. Appointed 09/01/95.

Thompson, Mason P., Associate Professor, Family Medicine. Med Col of GA, MD 1973; Univ of GA, BS 1969. Appointed 12/15/82.

Thompson, William O., II, Professor of Biostatistics, Biostatistics; Professor, Graduate Studies; Associate Professor, Pediatrics. VA Polytech Inst, PhD 1968; Univ of VA, BA 1963. Appointed 12/01/86.

Thurmond, Vera B., Associate Professor of Medical Education for Minority Affairs, Medicine. Univ of GA, EdD 1975; Univ of GA, MEd 1970; Clark Col, BA 1969. Appointed 09/14/80.

Till, Alice H., Instructor, Adult Nursing. Med Col of GA, MSN 1983; Med Col of GA, BSN 1976. Appointed 09/01/83.

Tingen, Martha S., Assistant Professor, Adult Nursing; Assistant Professor, Graduate Studies. Univ of SC (Columbia), PhD 1995; Med Col of GA, MSN 1983; Univ of SC (Columbia), BSN 1979. Appointed 09/01/91.

Tippett, James T., Associate Professor, Medicine. Med Col of GA, MD 1976; GA Inst of Tech, MS 1972; Armstrong St Col, BS 1968. Appointed 11/01/96.

Trainor, Donna J., Assistant Professor, Library. Univ of SC (Columbia), MLS 1986; Aug St Univ, BA 1977; Aug St Univ, AA 1962. Appointed 01/15/87.

Trefz, Jill I., Research Scientist, Neurology. OH St Univ, BS 1963. Appointed 08/01/72.

Treiber, Frank A., Professor, Pediatrics; Professor, Psychiatry and Health Behavior. Univ of GA, PhD 1981; Univ of GA, MS 1979; TN Tech Univ, BS 1975. Appointed 09/01/84.

Trueblood, Jon H., Professor, Radiology; Professor, Radiologic Sciences. Univ of SC (Columbia), PhD 1971; Wheaton Col, BS 1965. Appointed 02/15/71.

Truemper, Edward J., Associate Professor, Pediatrics. Univ of MS Med Ctr, MD 1982; Univ of MS, MS 1979; Univ of MS, BS 1976. Appointed 08/01/88.

Tuan, Dorothy Y. H., Professor, Biochemistry and Molecular Biology; Professor, Graduate Studies. CA Inst of Tech, PhD 1967; Natl Taiwan Norm Univ, BS 1962. Appointed 06/01/93.

Tucker, Michael C., Assistant Professor, Surgery. Med Univ of SC, MD 1990; Clemson Univ, BS 1984. Appointed 07/01/95.

Turnbull, Diane M., Assistant Professor, Medical Technology. Univ of GA, EdD 1995; Med Col of GA, MHEd 1987; Rush Univ, BS 1977. Appointed 08/15/85.

Turner, M. Kevin, Assistant Professor, Psychiatry and Health Behavior. Univ of SC (Columbia), PhD 1991; Western KY Univ, MA 1982; Citadel Mil Col of SC, BA 1980. Appointed 09/01/90.

Turner, Saundra L., Assistant Professor, Community Nursing; Assistant Professor, Family Medicine. Univ of GA, EdD 1990; Catholic Univ of Amer, MSN 1974; American Univ, BA 1972. Appointed 09/01/87.

Vann, A. Marie, Assistant Professor, Radiologic Sciences. Aug St Univ, MEd 1988; Med Col of GA, BS 1980; Med Col of GA, AS 1979. Appointed 10/24/83.

Vender, John R., Assistant Professor, Surgery. Yeshiva Univ, MD 1990; Johns Hopkins Univ, BA 1986. Appointed 08/01/96.

Venema, Richard C., Assistant Professor, Pediatrics; Assistant Professor, Pharmacology and Toxicology; Assistant Professor, Graduate Studies. Univ of CA (Rivrsde), PhD 1991; Univ of IA, BA 1974. Appointed 10/15/95.

Vericella, Biagio J., Professor of Health Education, Allied Health Sciences; Professor, Graduate Studies. Univ of Miami, EdD 1971; Westminster Col, MEd 1967; Youngstown St Univ, BS 1965. Appointed 08/01/73.

Vigoda, Michael M., Assistant Professor, Anesthesiology; Assistant Professor, Pediatrics. Univ of WI (Madsn), MD 1985; Univ of WI (Madsn), MSc 1979; Univ of Toronto, BSc 1975. Appointed 03/16/98.

Vogel, Steven S., Assistant Professor, Medicine. Columbia Univ, PhD 1989; Columbia Univ, MPhil 1988; Columbia Univ, MA 1984; Cty Univ of NY (Cty Col), BS 1978. Appointed 07/01/97.

Volkmann, Keith R., Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Oral Diagnosis and Patient Services. Univ of Rochester, PhD 1973; Med Col of GA, DMD 1976; Univ of Rochester, AB 1965. Appointed 03/01/73.

Vought, Rhonda G., Assistant Professor, Psychiatry and Health Behavior. Med Col of GA, MD 1993; Emory Univ, BA 1989. Appointed 07/10/97.

Voyles, Walter R., Assistant Professor, Cellular Biology and Anatomy. Univ of TN (Memphis), MD 1950. Appointed 04/01/89.

Wagner, Peggy Jo, Associate Professor, Family Medicine. Univ of FL, PhD 1975; Univ of FL, MA 1973; Wilson Col, BA 1971. Appointed 07/01/91.

Wakefield, Marsha L., Associate Professor, Anesthesiology. Univ of AL (Birmnghm), MD 1982; Birmingham-Sthrn Col, BS 1978. Appointed 08/01/86.

Wall, Donna M., Assistant Professor, Family Medicine. Med Col of GA, MD 1980; Univ of TN (Chatnga), BA 1975. Appointed 07/15/85.

Waller, Jennifer L., Assistant Professor, Physical Therapy. Univ of SC (Columbia), PhD 1994; Univ of SC (Columbia), MSPH 1991; NM St Univ, BS 1989. Appointed 10/09/97.

Walters, Paul A., III, Assistant Research Scientist, Psychiatry and Health Behavior. Univ of GA, PhD 1991; Wake Forest Univ, MA 1981; Wake Forest Univ, BA 1979. Appointed 07/15/89.

Ward, Sue T., Instructor, Associated Dental Sciences. Med Col of GA, BS 1975. Appointed 04/13/89.

Ware, Debra J., Assistant Professor, Obstetrics and Gynecology. Am Univ of the Caribbean, MD 1987; Univ of IL Med Ctr (Chicago), BSN 1975. Appointed 08/01/92.

Wataha, John C., Associate Professor, Oral Rehabilitation; Associate Professor, Oral Biology and Maxillofacial Pathology; Associate Professor, Graduate Studies. OR Hlth Sci Univ, DMD 1982; Univ of MI (Ann Arbor), PhD 1992; Stanford Univ, BS 1978. Appointed 09/25/95.

Waugh, Robert L., Jr., Assistant Professor, Orthodontics. Med Col of GA, DMD 1987; Baylor Col of Dent, MSD 1989; Med Col of GA, MS 1987; Mercer Univ, BS 1983. Appointed 01/01/90.

Weatherred, Ted W., Assistant Professor, Anesthesiology. Med Col of GA, MD 1989; Univ of TX (Austin), BA 1985. Appointed 07/01/93.

Webster, Paul D., III, Professor Emeritus, Medicine. Wake Forest Univ, MD 1956; Univ of Richmond, BS 1952. Appointed 07/01/68.

Weiser, Harry C., Assistant Professor, Surgery. Univ of KY, MD 1980; Univ of KY, BS 1976. Appointed 08/01/94.

Weisser, Lydia E., Assistant Professor, Psychiatry and Health Behavior. West VA Sch of Os Med, DO 1992; West VA Univ, MM 1978; West VA Univ, BM 1976. Appointed 03/17/97.

Welch, Christopher W., Assistant Professor, Mental Health/Psychiatric Nursing. Newport Univ, PhD 1989; Univ of North CO, MA 1977; Pepperdine Univ, MA 1975; MT St Univ, BS 1973. Appointed 09/01/91.

Welch, W. Perry, Jr., Assistant Professor, Anesthesiology. Univ of TN (Memphis), MD 1981; Vanderbilt Univ, BE 1976. Appointed 09/01/96.

Weller, R. Norman, Associate Professor, Endodontics; Associate Professor, Oral Biology and Maxillofacial Pathology. Med Univ of SC, DMD 1972; George Washington Univ, MS 1978; Clemson Univ, BS 1968. Appointed 07/01/94.

Welter, Dave A., Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Med Col of GA, PhD 1970; Med Col of GA, MS 1962; Univ of GA, BS 1961. Appointed 07/01/70.

Wessling, Kenneth C., Assistant Professor, Physical Therapy; Assistant Professor, Graduate Studies. Univ of TN (Knoxvle), PhD 1981; Univ of FL, BS 1972. Appointed 10/01/81.

White, Christopher B., Associate Professor, Pediatrics. Univ of VA, MD 1978; US Mil Academy, BS 1974. Appointed 07/15/94.

Whitford, Gary M., Regents' Professor, Oral Biology and Maxillofacial Pathology; Professor, Graduate Studies; Associate Professor, Physiology and Endocrinology. Med Col of GA, PhD 1971; Univ of Rochester, DMD 1975; Univ of Rochester, MS 1969; Univ of Rochester, BS 1965. Appointed 07/01/72.

Whitney, J. Barry, III, Associate Professor, Biochemistry and Molecular Biology; Associate Professor, Graduate Studies. Univ of NC (Chpl Hl), PhD 1972; Emory Univ, BS 1966. Appointed 06/01/80.

Williamson, Nancy D., Assistant Professor, Parent-Child Nursing. GA St Univ, PhD 1991; Med Col of GA, MSN 1979; Med Col of GA, BSN 1977. Appointed 09/01/83.

Winburn, Virginia B., Associate Professor, Surgery. Tulane Univ, MD 1986; Univ of NC (Grnsbr), BA 1978. Appointed 07/01/91.

Wingard, Christopher J., Assistant Professor, Physiology and Endocrinology. Wayne St Univ, PhD 1991; Univ of Akron, MS 1986; Hiram Col, BA 1984. Appointed 04/01/98.

Winkley, Gail P., Associate Professor, Associated Dental Sciences; Associate Professor, Graduate Studies; Assistant Professor, Periodontics. Boston Univ, MS 1976; Tufts Univ, BS 1961. Appointed 10/15/76.

Woeltje, Keith F., Assistant Professor, Medicine. Univ of TX (Dallas), MD 1991; Univ of TX (Dallas), PhD 1991; Univ of Dallas, BS 1984. Appointed 07/01/98.

Woodring, Barbara C., Associate Professor, Parent-Child Nursing; Associate Professor, Graduate Studies. Ball St Univ, EdD 1983; Ball St Univ, MA 1986; Johns Hopkins Univ, MEd 1975; Snt Francis Col, MS 1970; Grace Col, BSN 1966. Appointed 12/13/93.

Woods, Gerald W., Assistant Professor of Medical Jurisprudence and Ethics, Medicine. Emory Univ, JD 1973; Univ of NC (Chpl Hl), BS 1968. Appointed 03/01/78.

Woods, Kristy F., Associate Professor, Medicine. Tulane Univ, MD 1981; Tulane Univ, MPH 1981; Oberlin Col, BA 1977. Appointed 10/01/95.

Woods, Timothy D., Assistant Professor, Medicine. Northeastern OH Univ, MD 1992; ND St Sch of Sci, BS 1985. Appointed 07/01/98.

Work, Bruce A., Jr., Professor, Obstetrics and Gynecology. Univ of MI (Ann Arbor), MD 1959. Appointed 10/15/91.

Wray, Betty B., Professor, Pediatrics; Professor, Medicine. Med Col of GA, MD 1960; Mercer Univ, BS 1956. Appointed 07/01/68.

Wray, Charles H., Professor Emeritus, Surgery. Med Col of GA, MD 1959; Mercer Univ (Atl), AB 1955. Appointed 07/01/64.

Wren, Kathleen R., Instructor, Adult Nursing. Rush Univ, MS 1984; Union Col, BSN 1981. Appointed 07/01/96.

Wren, Timothy L., Assistant Professor, Adult Nursing. Rush Univ, MS 1985; Union Col, BS 1981. Appointed 09/01/96.

Wrenn, Robert W., Associate Professor, Cellular Biology and Anatomy; Associate Professor, Graduate Studies. Wake Forest Univ, PhD 1979; Appalachian St Univ, MA 1975; Davidson Col, BS 1973. Appointed 06/01/81.

Wright, John T., Assistant Professor, Emergency Medicine. Med Col of GA, MD 1978; Med Col of WI, MPH 1996; Emory Univ, BS 1974. Appointed 01/01/98.

Wright, Lore K., Associate Professor, Mental Health/Psychiatric Nursing; Associate Professor, Graduate Studies. Univ of GA, PhD 1988; Wayne St Univ, MSN 1979; Western MI Univ, BS 1976. Appointed 08/01/95.

Wynn, James J., Associate Professor, Surgery. Med Col of GA, MD 1980; Davidson Col, BS 1976. Appointed 07/01/87.

Yaghmai, Farivar, Associate Professor, Pathology. Univ of Teheran, MD 1963. Appointed 07/01/71.

Yates, Laurie J., Instructor, Anesthesiology; Instructor, Adult Nursing. TX Wesleyan Col, MHS 1988; Indiana Univ of PA, BSN 1984. Appointed 11/01/93.

Yates, Robert J., Instructor, Anesthesiology; Instructor, Adult Nursing. TX Wesleyan Col, MHS 1985; Univ of IA, BSN 1981; IA Central Comm Col, AA 1980. Appointed 07/01/93.

Yeh, Karen A., Assistant Professor, Surgery. Med Col of GA, MD 1988; Duke Univ, BS 1984. Appointed 07/01/95.

Yodlowski, Edmund H., Assistant Professor, Anesthesiology. Case Wstrn Resv Univ, PhD 1979; Case Wstrn Resv Univ, MS 1977; Manhattan Col, BEE 1972. Appointed 12/15/85.

Yost, Basil O., III, Assistant Professor, Medicine. Med Col of VA, MD 1980; Davidson Col, BS 1976. Appointed 07/01/98.

Young, Timothy R., Professor, Surgery. PA Col Osteopthc Med, DO 1976; Johns Hopkins Univ, MA 1970; US Mil Academy, BS 1963. Appointed 11/01/86.

Yousufzai, Sardar Y.K., Assistant Professor, Biochemistry and Molecular Biology. Aligarh Muslim Univ, PhD 1977; Aligarh Muslim Univ, MPhil 1975; Uttar Pradesh Agric Univ, MS 1971; Agra Univ, BS 1967. Appointed 03/01/82.

Yu, Jack C., Associate Professor, Surgery; Associate Professor, Pediatrics. Univ of PA, DMD 1982; Univ of PA, MD 1985; Univ of PA, MS 1984. Appointed 07/01/94.

Zhang, Hanfang, Assistant Research Scientist, Pharmacology and Toxicology. Tongji Med Univ, MD 1977; OH St Univ, PhD 1987; OH St Univ, MS 1984. Appointed 02/01/96.

Zhong, Qing, Assistant Research Scientist, Medicine. St Univ of NY (Bflo), MS 1988. Appointed 10/01/93.

Zwemer, Jack D., Professor, Pediatric Dentistry. Univ of IL Med Ctr (Chicago), DDS 1946; Univ of IL Med Ctr (Chicago), PhD 1954; Univ of IL Med Ctr (Chicago), MS 1951; Univ of IL Med Ctr (Chicago), BS 1944. Appointed 09/01/76.

Clinical/Adjunct Faculty*

Abdulla, Abdulla M., MBBS. Clinical Professor, Medicine; Clinical Professor, Adult Nursing.

Acevedo, J. Harold, MD. Assistant Clinical Professor, Physician Assistant; Assistant Clinical Professor, Pediatrics.

Ackerman, Larry L., MD. Associate Clinical Professor, Psychiatry and Health Behavior.

Adams, Francis W., Jr., DMD. Clinical Instructor, Oral Rehabilitation.

Adams, Lan L., MD. Clinical Instructor, Obstetrics and Gynecology.

Adams, Robert J., PhD. Assistant Adjunct Professor, Physiology and Endocrinology.

Addiss, David G., MD, MPH. Associate Adjunct Professor, Medicine.

Ades, Edwin W., PhD. Assistant Clinical Professor, Pediatrics.

* Note: File effective May 1, 1998, including those actions approved by the Board of Regents to take effect July 1, 1998.

Al-Madany, Ihab B., BDS, MSc. Assistant Adjunct Professor, Oral Biology and Maxillofacial Pathology.

Albrecht, Nettie N., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Albright, Daphne G., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Albritton, Josephine, MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Alderman, Emery J., Jr., DDS. Associate Clinical Professor, Oral Rehabilitation.

Alex, Glenn C., DMD. Clinical Instructor, Oral Diagnosis and Patient Services.

Alexander, Tamra J., PharmD. Assistant Adjunct Professor, Psychiatry and Health Behavior.

Ali, Ayman, DMD. Clinical Instructor, Oral Rehabilitation.

Allen, David C., MD. Assistant Clinical Professor, Surgery.

Allen, Kimberly E., MS. Adjunct Instructor, Physician Assistant.

Alperin, Henry, MD. Associate Clinical Professor, Radiology.

Ambroze, Wayne L., Jr., MD. Assistant Clinical Professor, Surgery.

Anders, David L., MD. Assistant Clinical Professor, Medicine.

Anderson, Craig H., MD. Assistant Clinical Professor, Pediatrics.

Anderson, Emily D., MHEd. Assistant Clinical Professor, Occupational Therapy.

Anderson, Jennifer B., BS. Clinical Instructor, Respiratory Therapy.

Andrews, Jeannette O., MSN. Clinical Instructor, Community Nursing.

Angeletti, J. Fred, Jr., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Arkin, Murray C., MD. Clinical Professor, Medicine.

Arora, Rajesh, MBBS. Assistant Clinical Professor, Anesthesiology; Assistant Clinical Professor, Psychiatry and Health Behavior.

Arp, Charles R., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Arthur, Ansermo L., MD. Assistant Clinical Professor, Medicine.

Ashline, Vivian M., MSN. Clinical Instructor, Adult Nursing.

Assad, Ramzi T., MD. Assistant Clinical Professor, Medicine.

Atwell, Eddie A., MD. Assistant Clinical Professor, Surgery.

Austin, Jack H., Jr., MD. Assistant Clinical Professor, Medicine.

Azar, Kenneth A., MD. Associate Clinical Professor, Psychiatry and Health Behavior.

Bagge, Richard W., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Bahat, Oded, BDS. Clinical Professor, Periodontics.

Bailey, Thomas E., Jr., MD. Clinical Professor, Surgery.

Bailey, Thomas E., Sr., MD. Associate Clinical Professor, Pediatrics.

Bairas, Diane S., BS. Clinical Instructor, Physician Assistant.

Baker, David H., MD. Clinical Professor, Radiology.

Baker, Susan J., DMD. Assistant Clinical Professor, Periodontics.

Balogh, Scott E., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Bandisode, Madhukar S., MD. Assistant Clinical Professor, Medicine.

Bannon, Michelle D., BS. Clinical Instructor, Physician Assistant.

Barber, Robert L., BS. Clinical Instructor, Respiratory Therapy.

Barfield, William E., Jr., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Barfield, William E., Sr., MD. Associate Clinical Professor, Obstetrics and Gynecology.

Barmore, Burton B., III, MD. Associate Clinical Professor, Family Medicine.

Barnett, Janet E., BS. Clinical Instructor, Physician Assistant.

Barron, Dara J., DMD, MS. Assistant Clinical Professor, Oral Rehabilitation.

Barron, Mark R., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Bartee, Lacy H., Sr., MS. Clinical Instructor, Physician Assistant.

Bashinski, Benjamin, III, MD. Assistant Clinical Professor, Neurology.

Bate, David M., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Battey, Louis L., MD. Clinical Professor, Medicine.

Battles, William M., Jr., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Battu, Prabhakar, MBBS. Assistant Clinical Professor, Radiology.

Baumann, Martha A., MSN. Clinical Instructor, Adult Nursing.

Bays, Robert A., DDS. Associate Clinical Professor, Oral Rehabilitation.

Beard, Robert W., MD. Assistant Clinical Professor, Medicine.

Beck, Elaine R., DDS. Clinical Instructor, Oral Rehabilitation.

Beck, Kathy L., MBA. Clinical Instructor, Health Information Management.

Beckham, Bruce M., DMD. Assistant Clinical Professor, Endodontics.

Becton, Elizabeth C., MD. Assistant Clinical Professor, Pediatrics.

Becton, James L., MD. Clinical Professor, Surgery.

Bedingfield, Amy P., MSN. Clinical Instructor, Parent-Child Nursing.

Beeson, C. Walker, II, MD. Clinical Professor, Medicine.

Beeson, Timothy N., MD. Assistant Clinical Professor, Anesthesiology.

Belger, Peggy C., MSN. Clinical Instructor, Mental Health/Psychiatric Nursing.

Ben, Raymond F., BS. Clinical Instructor, Physical Therapy.

Bennett, Sharon M., MN. Assistant Clinical Professor, Mental Health/Psychiatric Nursing.

Bennett, T. Reppard, DMD. Assistant Clinical Professor, Oral Rehabilitation.

Benton, Louis W., MD. Clinical Instructor, Obstetrics and Gynecology.

Berens, Sanford V., MD. Associate Clinical Professor, Radiology.

Berge, Donavon D., DDS. Assistant Clinical Professor, Oral and Maxillofacial Surgery.

Bergeron, Glynn A., MD. Associate Clinical Professor, Radiology.

Berman, Earl J., MD. Clinical Instructor, Medicine.

Bernstein, Arnold, MD. Associate Clinical Professor, Obstetrics and Gynecology.

Besson, Cindy G., MD. Clinical Instructor, Obstetrics and Gynecology.

Besson, William T., III, MD. Assistant Clinical Professor, Medicine.

Beveridge, Laura H., MEd. Assistant Clinical Professor, Respiratory Therapy.

Bigger, John F., Jr., MD. Associate Clinical Professor, Ophthalmology.

Bilodeau, Paul A., MD. Assistant Clinical Professor, Medicine.

Bingham, Kay H., BS. Clinical Instructor, Physician Assistant.

Bitar, Sawsan I., DMD. Clinical Instructor, Oral Rehabilitation.

Bivins, Harold A., Jr., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Black, Katherine A., BS. Clinical Instructor, Medical Technology.

Black, Maria M., MD. Assistant Clinical Professor, Medicine.

Blackwood, R. Adair, MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Blalock, H. Sherman, MD. Associate Clinical Professor, Surgery.

Blalock, Jack H., Jr., MD. Assistant Clinical Professor, Medicine.

Bledsoe, Donna S., MS. Clinical Instructor, Mental Health/Psychiatric Nursing.

Blevins, Keith S., DDS. Assistant Clinical Professor, Oral and Maxillofacial Surgery.

Blount, Wade B., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Boland, Edward H., MD. Assistant Clinical Professor, Family Medicine.

Booker, David L., MD. Assistant Clinical Professor, Pathology.

Boone, Daniel H., MD. Assistant Clinical Professor, Medicine.

Boss, J. Larry, MD. Associate Clinical Professor, Family Medicine.

Bowcock, John O., Jr., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Bowles, Stephen V., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Bowman, Mac A., MD. Assistant Clinical Professor, Medicine.

Boyd, Carl R., MD. Assistant Clinical Professor, Surgery.

Boyd, Michael B., DMD. Clinical Instructor, Oral Rehabilitation.

Boyter, Charles H., MS. Assistant Adjunct Professor, Medical Illustration.

Branch, Clinton E., Jr., MD. Associate Clinical Professor, Neurology.

Brandenburg, William G., Jr., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Brannen, Alfred L., II, MD. Clinical Instructor, Medicine.

Braswell, Lorraine C., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Brett, Miles E., MD. Assistant Clinical Professor, Family Medicine.

Bridges, E. Glenn, MD. Assistant Clinical Professor, Emergency Medicine.

Britt, Geneva W., MS. Clinical Instructor, Surgery.

Broadnax, Gary B., DO. Associate Clinical Professor, Obstetrics and Gynecology.

Brocato, Simone, MD. Assistant Clinical Professor, Medicine.

Bromer, Richard H., MD. Assistant Clinical Professor, Medicine.

Brooks, Charles W., Jr., MEd. Assistant Clinical Professor, Respiratory Therapy.

Brooks, Franklin R., PhD. Associate Clinical Professor, Psychiatry and Health Behavior.

Brooks, Patricia A., MS. Clinical Instructor, Mental Health/Psychiatric Nursing.

Brouillard, Mary E., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Brown, Charles F., MD. Clinical Instructor, Obstetrics and Gynecology.

Brown, David G., BS. Clinical Instructor, Physician Assistant.

Brown, David G., MS. Clinical Instructor, Adult Nursing.

Brown, Nathaniel A., BS. Clinical Instructor, Physician Assistant.

Brown, Robert F., Jr., MD. Assistant Clinical Professor, Medicine.

Brown, Sherri R., DMD. Clinical Instructor, Oral Rehabilitation.

Brown, Stephen W., MD. Associate Clinical Professor, Radiology.

Brown, Walter J., Jr., MD. Clinical Professor, Medicine.

Bruno, Ralph D., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Bruns, William L., Jr., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Buchanan, Ralph W., MD. Assistant Clinical Professor, Family Medicine.

Bunn, Gerald T., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Buonviri, Paul A., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Burch, Kenneth D., MD. Associate Clinical Professor, Pediatrics.

Bures, Joseph K., BS. Clinical Instructor, Medical Technology.

Burg, Hans A., DDS. Associate Clinical Professor, Endodontics.

Burgher-Jones, Janine E., MD. Associate Clinical Professor, Family Medicine.

Burnes, Carol A., MSN. Assistant Clinical Professor, Community Nursing.

Burton-Iwinski, Lesley T., MD. Assistant Clinical Professor, Family Medicine.

Bush, Lisa N., MN. Clinical Instructor, Community Nursing.

Butcher, Brian T., PhD. Adjunct Professor, Medicine.

Byck, David B., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Byck, Peggy L., MD. Assistant Clinical Professor, Medicine.

Byrd, M. Daniel, MD. Associate Clinical Professor, Medicine.

Byrd, Nina J., MS. Clinical Instructor, Physical Therapy.

Cadenhead, David J., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Calton, William C., Jr., MD. Assistant Clinical Professor, Surgery.

Cameron, Stephen M., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Camp, Bruce A., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Campbell, Edwin S., DMD. Clinical Instructor, Oral Rehabilitation.

Cannady, Robert W., BS. Clinical Instructor, Physician Assistant.

Cantwell, John D., MD. Associate Clinical Professor, Medicine.

Caplan, Gerald E., MD. Associate Clinical Professor, Radiology.

Capuy, Halbert C., MD. Assistant Clinical Professor, Pediatrics.

Carpenter, Brian R., DDS. Clinical Instructor, Oral Rehabilitation.

Carpenter, Steven L., MD. Assistant Clinical Professor, Medicine.

Carroll, Dorothy R., MA. Clinical Instructor, Medical Technology.

Carter, David B., DMD. Assistant Clinical Professor, Surgery; Assistant Clinical Professor, Orthodontics.

Carter, Georgia B., MA. Clinical Instructor, Mental Health/Psychiatric Nursing.

Carter, Jack W., DMD. Assistant Clinical Professor, Orthodontics; Assistant Clinical Professor, Surgery.

Carter, Kelli M., MD. Assistant Clinical Professor, Family Medicine.

Carter, Michael P., MD. Associate Clinical Professor, Radiology.

Carter, William C., MS. Assistant Adjunct Professor, Medical Illustration.

Cassidy, James L., Jr., DMD. Clinical Instructor, Oral Rehabilitation.

Castresana, Manuel R., MD. Clinical Professor, Anesthesiology.

Catalano, Philip W., MD. Assistant Clinical Professor, Surgery.

Cavola, Ronald S., DDS. Clinical Instructor, Oral Rehabilitation.

Chalker, Dan K., MD. Clinical Professor, Medicine.

Chamberlain, C. Richard, Jr., MD. Associate Clinical Professor, Pathology.

Chance, Camilla K., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Chandler, A. Bleakley, Jr., MD. Assistant Clinical Professor, Medicine.

Charles, James R., MHS. Clinical Instructor, Adult Nursing.

Chaudhary, Tesneem K., MBBS. Assistant Clinical Professor, Pediatrics.

Cheeks, Eddie R., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Cheng, Walter C., MSW. Assistant Clinical Professor, Psychiatry and Health Behavior.

Chestnut, Sharon K., BS. Clinical Instructor, Radiologic Sciences.

Chilton, Simona G., BS. Clinical Instructor, Medical Technology.

Chinn, Robert C., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Chisholm, Marie A., PharmD. Assistant Clinical Professor, Medicine.

Chowanec, Gregory D., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Christian, Joe D., Jr., MD. Associate Clinical Professor, Surgery.

Chuang, Augustine H. L., PhD. Assistant Adjunct Professor, Oral Biology and Maxillofacial Pathology.

Clark, David D., BS. Clinical Instructor, Occupational Therapy.

Clark, Michael D., MD. Assistant Clinical Professor, Surgery.

Clark, Sarah L., MD. Assistant Clinical Professor, Medicine.

Clark, William L., Jr., MD. Assistant Clinical Professor, Surgery.

Clay, Cassius M., SM. Assistant Clinical Professor, Radiology.

Clepper, Douglas P., DMD. Assistant Clinical Professor, Oral Diagnosis and Patient Services.

Cobb, W. Neal, DDS. Clinical Instructor, Oral Rehabilitation.

Cole, Wilfred Q., III, MD. Clinical Instructor, Pediatrics.

Coleman, Charles H., Jr., MD. Assistant Clinical Professor, Surgery.

Colman, Alan E., BS. Clinical Instructor, Physician Assistant.

Colosetti, Sharman D., MSW. Clinical Instructor, Psychiatry and Health Behavior.

Colvin, Charles J., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Conner, Harold M., BMS. Clinical Instructor, Pathology.

Cook, E. Lawrence, MD. Associate Clinical Professor, Psychiatry and Health Behavior.

Cook, Gregory C., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Cook, Terrence J., MD. Associate Clinical Professor, Pediatrics; Associate Clinical Professor, Medicine.

Cooper, James W., Jr., PhD. Assistant Clinical Professor, Family Medicine.

Copeland, Lanny R., MD. Associate Clinical Professor, Family Medicine.

Corbitt, Otis A., DSW. Associate Clinical Professor, Psychiatry and Health Behavior.

Cornelison, W. Fred, MDiv. Clinical Instructor, Physician Assistant.

Correnti, Elizabeth E., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Correnti, Lawrence M., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Costrini, Anthony M., MD. Assistant Clinical Professor, Medicine.

Cote, Lise A., MD. Assistant Clinical Professor, Family Medicine.

Craft, James H., MD. Assistant Clinical Professor, Radiology.

Craig, Daniel B., MD. Associate Clinical Professor, Medicine.

Crawford, Marynell, BS. Clinical Instructor, Health Information Management.

Crenshaw, Connie T., MSN. Assistant Clinical Professor, Parent-Child Nursing.

Crow, Robert W., MD. Assistant Clinical Professor, Surgery.

Cuartas, Francisco I., MD. Assistant Clinical Professor, Medicine.

Cuenin, Michael F., DMD. Assistant Adjunct Professor, Oral Biology and Maxillofacial Pathology.

Cundey, Paul E., Jr., MD. Clinical Professor, Medicine.

Dagi, Teodoro F., MD. Clinical Professor, Surgery.

Daniel, Fred L., MD. Assistant Clinical Professor, Surgery.

Daniel, Mary Anne, MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Danko, Lance E., BS. Clinical Instructor, Health Information Management.

Dasher, Byron G., MD. Assistant Clinical Professor, Radiology; Assistant Clinical Professor, Radiologic Sciences.

Dasher, M. Nesbit, Jr., MD. Associate Clinical Professor, Medicine.

Daspit, Sharon G., MD. Assistant Clinical Professor, Pathology.

David, Cynthia L., PhD. Assistant Adjunct Professor, Physical Therapy.

David, Sandra K., MHE. Assistant Clinical Professor, Occupational Therapy.

Davidson, James A., DMD. Clinical Instructor, Oral Rehabilitation.

Davis, Carol H., BS. Clinical Instructor, Physician Assistant.

Davis, David A., MSN. Clinical Instructor, Medical Technology.

Davis, Deborah H., BS. Clinical Instructor, Medical Technology.

Davis, James P., DMD. Clinical Instructor, Oral Rehabilitation.

Davis, John B., Jr., MD. Assistant Clinical Professor, Surgery.

Davis, Stacy C., MD. Assistant Clinical Professor, Pediatrics.

Day, Thomas E., DDS. Assistant Clinical Professor, Endodontics.

De Gaetano, Joseph S., DO. Assistant Clinical Professor, Family Medicine.

DeGrazia, Joseph A., Jr., MD. Associate Clinical Professor, Radiologic Sciences.

DeGroot, James F., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

DeLeon, Eladio, Jr., DMD, MS. Assistant Clinical Professor, Orthodontics.

DeLoach, Ervin D., MD. Assistant Clinical Professor, Surgery.

DeRamus, Leonard D., BS. Clinical Instructor, Physician Assistant.

Deering, Thomas F., MD. Associate Clinical Professor, Medicine.

Demicco, John M., MD. Assistant Clinical Professor, Medicine.

Dent, Jeffrey J., DDS. Assistant Clinical Professor, Periodontics.

Deppe, Scott A., MD. Associate Clinical Professor, Medicine.

Deuskar, Vasanti, MBBS. Assistant Clinical Professor, Radiology.

DiBenedetto, Robert J., MD. Clinical Professor, Medicine.

DiPiro, Joseph T., PharmD. Clinical Professor, Surgery.

Dickens, Victor F., MD. Assistant Clinical Professor, Emergency Medicine.

Dickey, David J., DMD. Assistant Clinical Professor, Endodontics.

Dickson, Stephen K., AS. Clinical Instructor, Respiratory Therapy.

Dimond, Keith A., MD. Associate Clinical Professor, Medicine.

Doane, Eric L., DO. Assistant Clinical Professor, Family Medicine.

Doll, N. Christopher, PharmD. Assistant Clinical Professor, Medicine.

Dominy, Wilburn T., Jr., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Domyslawski, Raymond F., MS. Clinical Instructor, Occupational Therapy.

Don Diego, Frank R., Jr., MD. Associate Clinical Professor, Family Medicine.

Doshi, Dinesh M., MBBS. Assistant Clinical Professor, Psychiatry and Health Behavior.

Douglas, Lacy A., MS. Clinical Instructor, Physician Assistant.

Dowling, Jeffrey S., BS. Assistant Clinical Professor, Physical Therapy.

Downer, Jane B., PhD. Assistant Adjunct Professor, Health Information Management.

Dozier, F. Augustus, MD. Assistant Clinical Professor, Surgery.

Drane, Daniel L., PhD. Assistant Clinical Professor, Neurology.

Drew, Joel P., DMD. Clinical Instructor, Oral Rehabilitation.

Dube, Volker E., MD. Associate Clinical Professor, Pathology.

Dubin, Jonathan S., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Ducey, Danita A., BS. Clinical Instructor, Health Information Management.

Duncan, Titus D., MD. Assistant Clinical Professor, Surgery.

Dunkelberger, Fred B., DMD, MS. Associate Clinical Professor, Pediatric Dentistry.

Dunn, Celia P., DMD. Clinical Instructor, Oral Rehabilitation.

Durham, Laura C., DDS. Assistant Clinical Professor, Pediatric Dentistry.

Echelberger, Scott F., MHA. Adjunct Instructor, Health Information Management.

Eckert, Richard E., MD. Assistant Clinical Professor, Pediatrics; Assistant Clinical Professor, Emergency Medicine.

Efaw, Lora F., MD. Assistant Clinical Professor, Family Medicine.

Ehsanipoor, Kaveh, MD. Clinical Professor, Medicine.

Elder, Herman A., DMD. Clinical Instructor, Oral Rehabilitation.

Eller, Peter C., DPM. Assistant Clinical Professor, Physician Assistant.

Elliott, Paul M., MD. Assistant Clinical Professor, Family Medicine.

Ellis, Judy P., BS. Clinical Instructor, Medical Technology.

Ellis, Keith E., MD. Assistant Clinical Professor, Family Medicine.

Enelow, Cathy T., MN. Clinical Instructor, Mental Health/Psychiatric Nursing.

England, Juliana E., PhD. Associate Clinical Professor, Neurology.

Engler, Harold S., MD. Clinical Professor, Surgery.

English, Charles E., DDS. Assistant Clinical Professor, Oral Rehabilitation.

English, Debra C., MD. Assistant Clinical Professor, Family Medicine.

Epperly, Neil A., DO. Assistant Clinical Professor, Medicine.

Epperly, Ted D., MD. Assistant Clinical Professor, Family Medicine.

Erne, Jerel J., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Evans, Bridget B., BS. Clinical Instructor, Medical Technology.

Evans, Linda Y., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Evans, William S., Jr., MD. Associate Clinical Professor, Psychiatry and Health Behavior.

Ewing, Douglas E., MD. Assistant Adjunct Professor, Physiology and Endocrinology.

Fabel, Craig B., MD. Assistant Clinical Professor, Family Medicine.

Fadel, Hossam E., MBBCh. Clinical Professor, Obstetrics and Gynecology.

Farman, Douglas P., MD. Assistant Clinical Professor, Medicine.

Farr, William L., Jr., MD. Associate Clinical Professor, Medicine.

Feldman, Jack A., MD. Assistant Clinical Professor, Surgery.

Ferguson, A. Drew, DMD. Clinical Instructor, Oral Rehabilitation.

Fernando, Marylou D., MD. Assistant Clinical Professor, Pediatrics.

Finger, Richard B, Jr., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Finkbeiner, Robert V., MS. Adjunct Instructor, Medical Illustration.

Finkel, Robert A., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Firnhaber, Richard L., DDS. Clinical Instructor, Oral Rehabilitation.

Fischer, Asma Q., MBBS. Associate Clinical Professor, Pediatrics.

Fishbein, Sumner L., MD. Associate Clinical Professor, Ophthalmology.

Fisher, Emile T., DDS. Clinical Professor, Periodontics.

Fitch, Margaret H., MD. Clinical Instructor, Medicine.

Fiveash, Arlie E., MD. Associate Clinical Professor, Radiology.

Floyd, David T., MD. Assistant Clinical Professor, Surgery.

Flynt, Thomas H., PharmD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Folley, Martha H., BS. Clinical Instructor, Medical Technology.

Forbes, E. Faye, BS. Clinical Instructor, Physician Assistant.

Forbes, L. Andrew, BA. Assistant Clinical Professor, Physician Assistant.

Forney, Mary Ann, PhD. Associate Clinical Professor, Family Medicine.

Foss, John T., BS. Clinical Instructor, Physician Assistant.

Foster, Gregory A., MD. Assistant Clinical Professor, Family Medicine.

Fournier, Joseph A.A., MSW. Assistant Clinical Professor, Psychiatry and Health Behavior.

Foushee, Karen M., MD. Assistant Clinical Professor, Pediatrics.

Fowler, John E., MD. Assistant Clinical Professor, Family Medicine.

Fraysure, Paul W., Jr., DMD. Clinical Instructor, Oral Rehabilitation.

Freedman, Murray A., MD. Associate Clinical Professor, Obstetrics and Gynecology; Associate Clinical Professor, Physiology and Endocrinology.

Freeman, Charles, Jr., MD. Assistant Clinical Professor, Surgery.

Freeman, Davidson L., MD. Clinical Instructor, Pediatrics.

Freeman, James K., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Frentzel, Michael, BS. Clinical Instructor, Respiratory Therapy.

Frey, Joseph, III, PhD. Associate Clinical Professor, Psychiatry and Health Behavior.

Friedman, Bruce, MD. Associate Clinical Professor, Medicine.

Fritz, Michael E., DDS. Clinical Professor, Periodontics.

Frye, Thomas V., MEd. Clinical Instructor, Respiratory Therapy.

Fuller, Gary K., MHEd. Clinical Instructor, Medical Technology.

Fullerton, Leroy R., Jr., MD. Clinical Professor, Surgery.

Fuqua, Anita M., MSN. Clinical Instructor, Mental Health/Psychiatric Nursing.

Gaffney, Carolyn F., MSN. Clinical Instructor, Adult Nursing.

Gainer, James S., Jr., MD. Assistant Clinical Professor, Medicine.

Gainey, Philip C., MD. Clinical Instructor, Medicine.

Gallup, Donald G., MD. Clinical Professor, Obstetrics and Gynecology.

Gambrell, R. Don, Jr., MD. Clinical Professor, Physiology and Endocrinology; Clinical Professor, Obstetrics and Gynecology.

Gantt, David G., PhD. Associate Adjunct Professor, Oral Biology and Maxillofacial Pathology.

Garber, David A., DMD. Clinical Professor, Periodontics; Clinical Professor, Oral Rehabilitation.

Gardner, M. Regina, BS. Clinical Instructor, Radiologic Sciences.

Garrett, Shavonne W., BS. Clinical Instructor, Physician Assistant.

Gaston, Max L., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Gavigan, Dawn M., BS. Clinical Instructor, Respiratory Therapy.

Gay, Gregory L., MD. Assistant Clinical Professor, Anesthesiology.

Gay, Tammy K., BS. Clinical Instructor, Medical Technology.

Gazda, George M., EdD. Clinical Professor, Psychiatry and Health Behavior.

Gemmill, Robert H., DSW. Assistant Clinical Professor, Psychiatry and Health Behavior.

Gentile, Herve F., MD. Assistant Clinical Professor, Surgery.

Gerardot, Robert J., MSW. Clinical Instructor, Psychiatry and Health Behavior.

Gerrard, Cynthia A., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Getts, Alan G., MD. Assistant Clinical Professor, Pediatrics.

Gibson, Carl A., MD. Clinical Instructor, Medicine.

Gibson, Hugh H., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Gillett, R. Clark, Jr., MD. Associate Clinical Professor, Family Medicine.

Gilliam, Lynda C., MD. Clinical Instructor, Obstetrics and Gynecology.

Gilliland, Cynthia H., MSN. Clinical Instructor, Adult Nursing.

Glass, William G., MS. Adjunct Instructor, Medical Illustration.

Glover, Andrea L., MEd. Clinical Instructor, Surgery.

Godowns, Angela B., BS. Clinical Instructor, Respiratory Therapy.

Goldberg, Ronald F., MD. Associate Clinical Professor, Medicine.

Goldkrand, John W., MD. Clinical Professor, Obstetrics and Gynecology.

Goldman, Kenneth L., MD. Assistant Clinical Professor, Surgery.

Goldstein, Cary E., DMD. Clinical Instructor, Oral Rehabilitation.

Goldstein, Ronald E., DDS. Clinical Professor, Oral Rehabilitation.

Gongaware, Robert D., MD. Associate Clinical Professor, Surgery.

Gongaware, Theodora L., MD. Associate Clinical Professor, Medicine.

Gonzalez, Evangelio, MD. Assistant Clinical Professor, Family Medicine.

Goodman, Lloyd S., MD. Clinical Professor, Medicine.

Goodrich, J. Allan, MD. Associate Clinical Professor, Surgery.

Goodrich, Samuel M., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Goodwin, Burton D., Jr., MD. Associate Clinical Professor, Radiology.

Goodwin, H. North, MD. Assistant Clinical Professor, Surgery.

Gordineer, Elizabeth S., MD. Assistant Clinical Professor, Family Medicine.

Gordon, Lisa E., BS. Clinical Instructor, Radiologic Sciences.

Gordon, Lynne T., BS. Clinical Instructor, Health Information Management.

Gowda, Sridhar, MBBS. Assistant Clinical Professor, Psychiatry and Health Behavior.

Gramling, Lou F., PhD. Associate Clinical Professor, Mental Health/Psychiatric Nursing.

Granade, James A., III, DMD. Clinical Instructor, Oral Rehabilitation.

Granade, James A., Jr., DDS. Clinical Instructor, Oral Rehabilitation.

Gray, Otis L., Jr., MD. Associate Clinical Professor, Family Medicine.

Green, Cathy L., MSN. Clinical Instructor, Adult Nursing.

Green, Charles G., Jr., MD. Clinical Professor, Medicine.

Greenberg, Joel A., MD. Associate Clinical Professor, Medicine.

Greenberg, Martin H., MD. Clinical Professor, Pediatrics.

Greene, James T., MD. Clinical Instructor, Medicine.

Griffin, Louie H., Jr., MD. Associate Clinical Professor, Surgery.

Griffin, Shelley A., MD. Assistant Clinical Professor, Pediatrics.

Grimm, Jenny M., MSN. Clinical Instructor, Adult Nursing.

Grimsley, Edwin W., MD. Associate Clinical Professor, Medicine.

Gropper, Jerome M., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Grubbs, Kenneth, DDS. Clinical Instructor, Oral Rehabilitation.

Grunther, Ira A., BS. Assistant Adjunct Professor, Medical Illustration.

Gugino, Hilah A., PhD. Associate Clinical Professor, Mental Health/Psychiatric Nursing.

Guill, Marshall A., III, MD. Associate Clinical Professor, Medicine.

Gulati, Nidhi K., MD. Assistant Clinical Professor, Family Medicine.

Haas, Melvyn L., MD. Clinical Professor, Neurology.

Hackett, Earl A., DMin. Assistant Adjunct Professor, Psychiatry and Health Behavior.

Haddow, Sara V., MS. Clinical Instructor, Physician Assistant.

Hadley, Isaac S., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Hagler, William S., MD. Associate Clinical Professor, Ophthalmology.

Hair, Joe F., Jr., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Hale, Cynthia T., BS. Clinical Instructor, Occupational Therapy.

Hall, Patricia B., MSN. Clinical Instructor, Adult Nursing.

Hall, Samuel A., Jr., MEd. Clinical Instructor, Medical Technology.

Hames, Curtis G., MD. Clinical Professor, Medicine; Clinical Professor, Family Medicine.

Hamil, George B., Jr., BS. Clinical Instructor, Physical Therapy.

Hamilton, Carol D., MEd. Assistant Clinical Professor, Physician Assistant.

Handy, John R., MD. Associate Clinical Professor, Medicine.

Hanly, Mark G., MBChB. Assistant Clinical Professor, Pathology.

Hannapel, Andrew C., MD. Assistant Clinical Professor, Family Medicine.

Hannay, Keith E., MD. Associate Clinical Professor, Family Medicine.

Hansard, Stephen J., DMD. Clinical Instructor, Oral Rehabilitation.

Harasym, Myron, MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Harbeson, M. Ellen, BS. Clinical Instructor, Health Information Management.

Harbour, Robert C., MD. Assistant Clinical Professor, Ophthalmology.

Hardy, Linda B., DO. Assistant Clinical Professor, Psychiatry and Health Behavior.

Harkins, Caren M., BS. Clinical Instructor, Respiratory Therapy.

Harkness, Katherine T., MSN. Clinical Instructor, Adult Nursing.

Harlow, Susan, MS. Clinical Instructor, Surgery.

Harmon, John D., MD. Associate Clinical Professor, Surgery.

Harper, Harry T., III, MD. Assistant Clinical Professor, Medicine.

Harper, Herbert S., MD. Assistant Clinical Professor, Pediatrics.

Harris, Donald W., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Harris, Hugh C., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Harrison, Theresa A., PhD. Assistant Adjunct Professor, Cellular Biology and Anatomy.

Hartley, John H., Jr., MD. Clinical Professor, Surgery.

Harvey, John S., MD. Assistant Clinical Professor, Physician Assistant.

Harvey, Queen S., BS. Clinical Instructor, Physician Assistant.

Haskins, Arthur L., MD. Clinical Professor, Obstetrics and Gynecology.

Hastings, Jessie G., BS. Clinical Instructor, Medical Technology.

Hatch, Richard, MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Hauenstein, Julia P., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Haverstock, Susan L., MD. Associate Clinical Professor, Psychiatry and Health Behavior.

Hawes, Robert J., MD. Assistant Clinical Professor, Family Medicine.

Hawkins, B. Lee, DDS. Clinical Instructor, Oral Rehabilitation.

Hawkins, David W., PharmD. Clinical Professor, Medicine.

Haynes, Michael S., MD. Clinical Professor, Medicine.

Haysman, Melvin L., MD. Assistant Clinical Professor, Medicine.

Heard, William C., MD. Assistant Clinical Professor, Surgery.

Heath, Janie, MS. Clinical Instructor, Adult Nursing.

Hedrick, Fred, Jr., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Heimer, William L., II, MD. Assistant Clinical Professor, Medicine.

Hemphill, J. Michael, MD. Associate Clinical Professor, Neurology.

Henderson, Linda F., BS. Clinical Instructor, Health Information Management.

Hendricks, Daniel E., PhD. Associate Clinical Professor, Psychiatry and Health Behavior.

Hendry, Lawrence B., PhD. Adjunct Professor, Physiology and Endocrinology.

Herskowitz, Ian C., MD. Assistant Clinical Professor, Medicine.

Hester, Thomas W., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Hickman, Kathleen R., MSN. Assistant Clinical Professor, Parent-Child Nursing.

Hill, Julius N., III, MD. Associate Clinical Professor, Anesthesiology.

Hillson, Willie J., MD. Assistant Clinical Professor, Medicine.

Hinely, Lewis J., Jr., MS. Assistant Clinical Professor, Medical Illustration.

Hines, Franklin B., Jr., DDS. Associate Clinical Professor, Orthodontics.

Hinton, Ralph M., MD. Assistant Clinical Professor, Family Medicine.

Hinz, Ellen R., BS. Clinical Instructor, Health Information Management.

Hirschel, Amy J., MS. Assistant Clinical Professor, Occupational Therapy.

Hobbs, Calvin L., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Hodges, Thomas I., Jr., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Hogue, W. Larry, MD. Assistant Clinical Professor, Radiology.

Hokett, Steven D., DDS. Assistant Adjunct Professor, Oral Biology and Maxillofacial Pathology.

Holland, Thomas P., PhD. Clinical Professor, Psychiatry and Health Behavior.

Holton, Isaac F., Jr., DMD. Assistant Clinical Professor, Endodontics; Assistant Clinical Professor, Orthodontics.

Honeycutt, Wayne T., MD. Assistant Clinical Professor, Medicine.

Hooks, Vendie H., III, MD. Associate Clinical Professor, Surgery.

Horan, Christine P., MSN. Clinical Instructor, Community Nursing.

Horton, Philip A., MD. Assistant Clinical Professor, Psychiatry and Health Behavior; Assistant Clinical Professor, Medicine.

Hosford, Sarah L., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

House, Fredrick C., MD. Assistant Clinical Professor, Medicine.

Houser, Frank M., MD. Associate Clinical Professor, Family Medicine.

Howard, John C., Jr., DDS. Clinical Instructor, Oral Rehabilitation.

Howard, Matthew T., MD. Assistant Clinical Professor, Pediatrics.

Howatt, James W., MD. Assistant Clinical Professor, Family Medicine.

Howell, Renee B., BS. Clinical Instructor, Health Information Management.

Howington, Jerry W., MD. Associate Clinical Professor, Radiology.

Hubbard, Linda B., MSN. Clinical Instructor, Community Nursing.

Hudson, James H., Jr., DMD. Clinical Instructor, Oral Rehabilitation.

Hudson, Ronald M., MD. Assistant Clinical Professor, Family Medicine.

Hudson, W. Howard, MD. Assistant Clinical Professor, Surgery.

Huechtker, Edward D., Sr., MPA. Assistant Clinical Professor, Physician Assistant.

Hulsebus, Robert C., PhD. Assistant Clinical Professor, Family Medicine.

Hutchinson, Kenneth K., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Hynd, George W., EdD. Assistant Clinical Professor, Neurology.

Igartua, Rafael J., MD. Assistant Clinical Professor, Medicine.

Inabinet, Judith B., MN. Clinical Instructor, Community Nursing.

Introna, Robert P.S., MD. Clinical Professor, Anesthesiology; Clinical Professor, Pediatrics.

Ivie, Lisa A., BA. Clinical Instructor, Respiratory Therapy.

Jablow, Mitchell A., MD. Assistant Clinical Professor, Family Medicine.

Jackson, Eugene H., MD. Assistant Clinical Professor, Family Medicine.

Jackson, Gordon W., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Jackson, Henry C., Jr., MD. Clinical Instructor, Medicine.

Jackson, Jennifer J., BS. Clinical Instructor, Physician Assistant.

Jackson, Joseph L., MD. Assistant Clinical Professor, Family Medicine.

Jackson, Stanley G., JD. Assistant Adjunct Professor, Oral Rehabilitation.

James, Cornelius R., Jr., MD. Associate Clinical Professor, Surgery.

Jarrett, William H., II, MD. Associate Clinical Professor, Ophthalmology.

Jeffrey, Danae M., MD. Assistant Clinical Professor, Medicine.

Jenkins, Jeffrey S., MD. Assistant Clinical Professor, Family Medicine.

Jenkins, Mark G., MD. Assistant Clinical Professor, Medicine.

Jenkins, Sharon K., BS. Clinical Instructor, Radiologic Sciences.

Jerant, Anthony F., MD. Assistant Clinical Professor, Family Medicine.

Jerath, Ravinder, MBBS. Assistant Clinical Professor, Obstetrics and Gynecology.

Johnson, C. David, III, MD. Assistant Clinical Professor, Family Medicine.

Johnson, C. F., Jr., MD. Assistant Clinical Professor, Anesthesiology.

Johnson, Jennifer T., MD. Assistant Clinical Professor, Family Medicine.

Johnson, Linda L., MN. Assistant Clinical Professor, Community Nursing.

Johnson, Mary H., BS. Clinical Instructor, Pharmacology and Toxicology.

Johnson, Niel A., MD. Assistant Clinical Professor, Family Medicine.

Johnson, Ray E., MD. Assistant Clinical Professor, Medicine.

Johnson, Robert W., MD. Assistant Clinical Professor, Surgery.

Johnson, Thomas A., DDS. Assistant Clinical Professor, Oral Diagnosis and Patient Services.

Johnston, Kim W., MD. Assistant Clinical Professor, Surgery.

Jonah, Mary H., BS. Clinical Instructor, Medical Technology.

Jones, Steven R., MD. Assistant Clinical Professor, Pediatrics.

Jones, Susan B., BS. Clinical Instructor, Medical Technology.

Jopling, John D., Jr., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Jopling, William M., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Jordon, Thomas D., BS. Clinical Instructor, Radiologic Sciences.

Jurgensen, Paul F., MD. Clinical Professor, Medicine.

Kaesemeyer, Wayne H., MD. Assistant Adjunct Professor, Pharmacology and Toxicology.

Kaminski, Robert J., MD. Assistant Clinical Professor, Radiology; Assistant Clinical Professor, Radiologic Sciences.

Kantamneni, Vinay K., MD. Assistant Clinical Professor, Medicine.

Karlin, Shary L., EdD. Assistant Adjunct Professor, Respiratory Therapy.

Kasin, James V., MBBS. Assistant Clinical Professor, Pathology.

Kata, Martin H., MD. Assistant Clinical Professor, Medicine.

Kelley, John W., MD. Assistant Clinical Professor, Medicine.

Kelly, Colleen E., BS. Clinical Instructor, Physician Assistant.

Kelly, Richard J., MD. Assistant Clinical Professor, Radiology.

Kemle, Kathy A., BS. Clinical Instructor, Physician Assistant.

Kent, David E., MD. Clinical Instructor, Medicine.

Keown, Kevin O., MD. Assistant Clinical Professor, Family Medicine.

Kilpatrick, Allie C., PhD. Associate Clinical Professor, Psychiatry and Health Behavior.

Kim, O. Mary, MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Kim, S. Peter, MD, PhD. Clinical Professor, Psychiatry and Health Behavior; Clinical Professor, Pediatrics.

Kinder, Jacquelyn S., EdD. Associate Adjunct Professor, Adult Nursing.

King, Julian D., Jr., BS. Clinical Instructor, Medical Technology.

Kinney, Patricia A., BS. Clinical Instructor, Physical Therapy.

Kirch, Deborah M., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Kirchner, Allen W., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Kitchens, William R., MD. Assistant Clinical Professor, Surgery.

Kitchens, William D., DMD. Clinical Instructor, Oral Rehabilitation.

Kittle, William M., III, MD. Assistant Clinical Professor, Medicine.

Klacsmann, Peter G., MD. Associate Clinical Professor, Pathology.

Klein, Darlene S., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Kohanski, Phillip, MD. Assistant Clinical Professor, Radiology.

Kohanski, Renee S., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Kolmar, Linda A., BS. Clinical Instructor, Physician Assistant.

Korwin, Joseph J., BMS. Clinical Instructor, Physician Assistant; Assistant Clinical Professor, Medicine.

Kothari, Ajay M., MBBS. Assistant Clinical Professor, Physician Assistant.

Krissman, Paul H., MD. Assistant Clinical Professor, Medicine.

Krupa, Joseph J., III, DDS. Assistant Clinical Professor, Oral and Maxillofacial Surgery; Assistant Clinical Professor, Surgery.

Kudyba, Paul S., DDS. Clinical Instructor, Oral Rehabilitation.

Kuglar, Everett C., MD. Clinical Professor, Psychiatry and Health Behavior.

LaHatte, Lawrence J., MD. Assistant Clinical Professor, Medicine.

LaVigne, William E., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Lain, David C., AAS. Assistant Adjunct Professor, Respiratory Therapy.

Lambert, Clinton E., Jr., PhD. Associate Clinical Professor, Mental Health/Psychiatric Nursing.

Lambert, J. Stanley, DDS. Assistant Clinical Professor, Oral Rehabilitation.

Lamberts, Robert J., MD. Clinical Instructor, Pediatrics.

Lamis, Pano A., MD. Clinical Professor, Surgery.

Land, Nancy J., BS. Clinical Instructor, Occupational Therapy.

Larson, Janet D., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Latif, Rhonda C., MD. Clinical Instructor, Obstetrics and Gynecology.

Lawhead, R. Allen, Jr., MD. Associate Clinical Professor, Obstetrics and Gynecology.

Lawhorne, Thomas W., Jr., MD. Assistant Clinical Professor, Surgery.

Lawrence, Mallory A., MD. Associate Clinical Professor, Surgery.

Lawrence, William P., MD. Assistant Clinical Professor, Radiology.

Layne, Carlos E., BS. Clinical Instructor, Physician Assistant.

LeClair, Jesse R., BS. Clinical Instructor, Physician Assistant.

Lea, Jimmy R., MS. Clinical Instructor, Medical Technology.

Leblang, Michael N., MD. Assistant Clinical Professor, Family Medicine.

Lee, James M., BS. Assistant Clinical Professor, Physician Assistant.

Lee, Marion O., MD. Clinical Instructor, Anesthesiology.

Leighton, Leslie S., MD. Assistant Clinical Professor, Medicine.

Lemke, Jimmy V., MD. Clinical Instructor, Medicine.

Lemley, James L., MD. Assistant Clinical Professor, Family Medicine.

Leslie, George A., BS. Clinical Instructor, Respiratory Therapy.

Lett, Claude E., III, BS. Clinical Instructor, Physician Assistant.

Letton, A. Hamblin, MD. Clinical Professor, Surgery.

Levine, David L., PhD. Clinical Professor, Psychiatry and Health Behavior.

Levine, Stanley I., MD. Assistant Clinical Professor, Pediatrics.

Levy, Alan M., MD. Assistant Clinical Professor, Surgery.

Lewis, Charles C., MPH. Assistant Clinical Professor, Physician Assistant.

Lewis, Jesse F., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Liewehr, Frederick R., DMD, MS. Assistant Clinical Professor, Endodontics.

Limoli, Tom M., DDS. Assistant Clinical Professor, Periodontics.

Lindsey, William E., BS. Clinical Instructor, Respiratory Therapy.

Lipman, Bradford C., MD. Assistant Clinical Professor, Medicine.

Little, Wanda H., MSN. Assistant Clinical Professor, Adult Nursing.

Livingston, E. Claire, PhD. Assistant Clinical Professor, Physician Assistant.

Lloyd, Robert G., MHS. Clinical Instructor, Adult Nursing.

Lloyd, Susan S., BS. Clinical Instructor, Health Information Management.

Lodge, Charles G., MD. Associate Clinical Professor, Family Medicine.

Long, Eugene M., Jr., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Long, J. Blakely, MD. Assistant Clinical Professor, Pediatrics.

Long, Robert F., Jr., MD. Associate Clinical Professor, Radiology.

Longe, R. Leon, PharmD. Clinical Professor, Family Medicine.

Lorch, Alexander H., MD. Assistant Clinical Professor, Medicine.

Loring, Sherrill R., MD. Assistant Clinical Professor, Neurology.

Lotner, Gary Z., MD. Assistant Clinical Professor, Pediatrics.

Lowery, Beth B., DMD. Clinical Instructor, Oral Rehabilitation.

Lowery, Vasco A., III, DMD. Clinical Instructor, Oral Rehabilitation.

Lowry, Dorothy P., BS. Clinical Instructor, Health Information Management.

Lucas, George W., MD. Clinical Professor, Surgery.

Lucas, William T., MD. Associate Clinical Professor, Surgery.

Luce, David J., BS. Clinical Instructor, Respiratory Therapy.

Lukman, Hatim, MBBS. Assistant Clinical Professor, Obstetrics and Gynecology.

Lusk, Teressa M., MSP. Clinical Instructor, Surgery.

Lynch-Hayes, Patricia, MSN. Clinical Instructor, Community Nursing.

Maddox, Lynda J., BA. Clinical Instructor, Health Information Management.

Maddox, S. Fleetwood, Jr., MD. Associate Clinical Professor, Ophthalmology.

Magharious, William D., MBBCh. Assistant Clinical Professor, Psychiatry and Health Behavior.

Magruder, Richard L., Jr., MD. Assistant Clinical Professor, Medicine.

Mahoney, Karen M., MD. Assistant Clinical Professor, Medicine.

Malamy, Allan R., DDS. Assistant Clinical Professor, Endodontics.

Malone, Stephen B., MD. Associate Clinical Professor, Medicine.

Manjunath, Bettadapura R., MD. Assistant Clinical Professor, Medicine.

Manly, Lewin R., Jr., DDS. Clinical Instructor, Oral Rehabilitation.

Mansell, Karon M., BS. Clinical Instructor, Medical Technology.

Marcum, J. Michael, MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Marcy, Elona G., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Marschalk, Frederick F., Jr., MD. Assistant Clinical Professor, Medicine.

Marsh, Chris E., MEd. Adjunct Instructor, Oral Rehabilitation.

Marshall, Virginia L., MSN. Clinical Instructor, Adult Nursing.

Martel, Linda G., MN. Clinical Instructor, Parent-Child Nursing.

Martin, Christine A., MS. Clinical Instructor, Parent-Child Nursing.

Martin, John M., MD. Associate Clinical Professor, Medicine.

Martin, M. Jeanette, MEd. Assistant Clinical Professor, Occupational Therapy.

Martin, Melinda J., BS. Clinical Instructor, Physician Assistant.

Martin, W. Dean, MD. Clinical Instructor, Radiology.

Martin, William H., BA. Clinical Instructor, Medical Technology.

Masiongale, James I., MHS. Clinical Instructor, Adult Nursing.

Mason, Edward M., MD. Assistant Clinical Professor, Surgery.

Master, Bonnie S., BS. Clinical Instructor, Physician Assistant.

Masters, O. Vincent W., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Matson, Charles R., BS. Clinical Instructor, Respiratory Therapy.

Maughon, James S., Sr., MD. Associate Clinical Professor, Surgery.

May, Chris A., BS. Clinical Instructor, Physician Assistant.

May, Helen, BS. Clinical Instructor, Medical Technology.

May, Jere R., PharmD. Adjunct Instructor, Pharmacology and Toxicology; Assistant Clinical Professor, Adult Nursing.

May, Stephen C., Jr., MD. Assistant Clinical Professor, Family Medicine.

Mays, Wallace D., MD. Assistant Clinical Professor, Physician Assistant.

Mazzawi, Anne C., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Mazzawi, Hugh N., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Mazzuckelli, Thomas J., DMD. Clinical Instructor, Oral Rehabilitation.

McAfee, William H., EdD. Assistant Clinical Professor, Family Medicine.

McBee, Wanda H., BS. Clinical Instructor, Medical Technology.

McCarty, Juanita S., MSN. Clinical Instructor, Adult Nursing.

McCaslan, Carolyn W., BS. Clinical Instructor, Medical Technology.

McClure, Charles G., MD. Associate Clinical Professor, Neurology.

McCluskey, George M., Jr., BS. Clinical Instructor, Physical Therapy.

McCormack, John C., PhD. Associate Clinical Professor, Psychiatry and Health Behavior.

McCormack, T. Wayne, DDS. Assistant Clinical Professor, Oral Rehabilitation.

McDonald, Thomas R., DMD. Clinical Instructor, Oral Rehabilitation.

McDonough, Michel, MD. Assistant Clinical Professor, Obstetrics and Gynecology.

McFerrin, Lela B., BS. Clinical Instructor, Health Information Management.

McGahee, Ollie O., Jr., MD. Associate Clinical Professor, Family Medicine.

McGuinn, Robert L., DMD. Assistant Clinical Professor, Oral Rehabilitation.

McIntyre, Garlan S., Jr., DDS. Clinical Instructor, Oral Rehabilitation.

McKee, Thomas W., MD. Clinical Instructor, Pediatrics.

McKernan, J. Barry, MD. Clinical Professor, Surgery.

McLeod, Natalie B., MD. Assistant Clinical Professor, Medicine.

McMaster, Guy F., DMD. Assistant Clinical Professor, Oral Rehabilitation.

McMillan, Kenneth A., DMD. Assistant Clinical Professor, Oral Rehabilitation.

McNally, Peter R., DO. Associate Clinical Professor, Medicine.

McPeake, Ernest T., II, BS. Clinical Instructor, Radiologic Sciences.

McPhail, Franklin E., Jr., DMD. Assistant Clinical Professor, Oral Rehabilitation.

McPhail, Nanci P., MD. Clinical Instructor, Medicine.

McPherson, James C., III, PhD. Assistant Adjunct Professor, Oral Biology and Maxillofacial Pathology.

McRae, Matthew, Jr., DMD. Assistant Clinical Professor, Oral Diagnosis and Patient Services.

McRee, John B., MD. Assistant Clinical Professor, Family Medicine.

Meadows, J. Allen, III, MD. Assistant Clinical Professor, Medicine.

Meeks, William H., MD. Assistant Clinical Professor, Surgery.

Meguiar, Ramon V., MD. Associate Clinical Professor, Obstetrics and Gynecology.

Melcher, Neil R., DDS. Assistant Clinical Professor, Endodontics; Assistant Clinical Professor, Oral Rehabilitation.

Melcher, Richard E., MD. Associate Clinical Professor, Family Medicine.

Mellinger-Adams, Judy C., BS. Assistant Clinical Professor, Medical Technology.

Merin, Robert G., MD. Clinical Professor, Anesthesiology; Clinical Professor, Adult Nursing.

Messer, Rosa W., MSN. Clinical Instructor, Community Nursing.

Meyer, George W., MD. Associate Clinical Professor, Medicine.

Meyer, Theodore M., MD. Assistant Clinical Professor, Medicine.

Michelich, Robert J., DDS. Associate Clinical Professor, Endodontics.

Michigan, Stephen, MD. Assistant Clinical Professor, Surgery.

Middlebrooks, Tracy W., Jr., MD. Assistant Clinical Professor, Pediatrics.

Miklos, John R., MD. Clinical Instructor, Obstetrics and Gynecology.

Millen, James L., MD. Assistant Clinical Professor, Medicine.

Miller, Daniel R., MD. Assistant Clinical Professor, Family Medicine.

Miller, James W., MD. Assistant Clinical Professor, Medicine.

Miller, Jerry A., Jr., MD. Assistant Clinical Professor, Pediatrics.

Miller, Ross H., MD. Clinical Professor, Surgery.

Miller, William A., MD. Associate Clinical Professor, Radiology.

Miner, F. P. Craig, MD. Assistant Clinical Professor, Emergency Medicine.

Mintz, Greg A., DMD. Associate Clinical Professor, Oral and Maxillofacial Surgery; Associate Clinical Professor, Oral Biology and Maxillofacial Pathology.

Mitchell, Catherine, BS. Clinical Instructor, Radiologic Sciences.

Mitchell, John C., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Moberg-Wolff, Elizabeth A., MD. Assistant Clinical Professor, Pediatrics.

Mode, Donald G., MD. Assistant Clinical Professor, Surgery.

Mohan, Parvathi D., MBBS. Assistant Clinical Professor, Psychiatry and Health Behavior.

Monroe, Scott D., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Montano, Nicola, MD, PhD. Assistant Clinical Professor, Anesthesiology.

Moody, Ron, MD. Assistant Clinical Professor, Family Medicine.

Moore, Steven L., MD. Assistant Clinical Professor, Pediatrics.

Moore, Walter J., MD. Assistant Clinical Professor, Medicine.

Moretz, William H., Jr., MD. Clinical Professor, Surgery.

Morgan, Gwen V., MD. Assistant Clinical Professor, Psychiatry and Health Behavior; Assistant Clinical Professor, Physician Assistant.

Morgan, Joel L., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Morin, Claudia T., MHEd. Assistant Clinical Professor, Occupational Therapy.

Moritz, Jeffrey A., DDS. Assistant Clinical Professor, Periodontics.

Morley, Andrew P., Jr., MD. Assistant Clinical Professor, Family Medicine.

Morris, Stephen L., MD. Associate Clinical Professor, Medicine.

Morrison, B. Faye, MSN. Clinical Instructor, Mental Health/Psychiatric Nursing.

Morrison, C. Scott, DMD. Clinical Instructor, Oral Rehabilitation.

Morrison, Joseph V., Jr., MD. Assistant Clinical Professor, Pediatrics.

Moskowitz, Marc E., DDS. Clinical Instructor, Oral Rehabilitation.

Moti, Udaya G., MBBS. Assistant Clinical Professor, Physician Assistant.

Mucha, Edgardo, MD. Associate Clinical Professor, Medicine.

Mulherin, Neita H., BS. Clinical Instructor, Psychiatry and Health Behavior.

Muller, Thomas W., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Mullins, Stephen C., MD. Assistant Clinical Professor, Pathology.

Mullins, William B., MD. Associate Clinical Professor, Pathology.

Murden, Michael R., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Murphy, Mark E., MD. Assistant Clinical Professor, Medicine.

Murray, Samuel D., Jr., MD. Assistant Clinical Professor, Surgery.

Mushet, George R., MD. Clinical Professor, Neurology.

Myers, Cecil O., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Nalley, Logan, Jr., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Nappier, Phyllis D., MN. Clinical Instructor, Adult Nursing.

Narde, Joseph A., DDS. Clinical Instructor, Oral Rehabilitation.

Nash, Michael L., MD. Clinical Professor, Medicine.

Nash, Ross W., DDS. Clinical Instructor, Oral Rehabilitation.

Natrajan, Puthugramam K., MBBS. Assistant Clinical Professor, Physiology and Endocrinology.

Neal, H. Anthony, DDS. Assistant Clinical Professor, Oral and Maxillofacial Surgery.

Nelson, George J., BS. Clinical Instructor, Physician Assistant.

Nelson, K. Eric, MD. Clinical Professor, Psychiatry and Health Behavior.

Nesley, Todd A., MS. Clinical Instructor, Adult Nursing.

Newman, Lewis L., Jr., BS. Clinical Instructor, Physician Assistant.

Newton, S. Clark, Jr., MD. Assistant Clinical Professor, Pediatrics.

Ngoh, Emmanuel C., DMD. Clinical Instructor, Endodontics.

Niagro, Frank D., PhD. Assistant Adjunct Professor, Oral Biology and Maxillofacial Pathology.

Nicholson, Benjamin E., MD. Associate Clinical Professor, Family Medicine.

Nicholson, William L., MD. Assistant Clinical Professor, Family Medicine.

Nicol, Charles F., MD. Assistant Clinical Professor, Medicine.

Nolan, William P., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Norcross, John C., EdD. Assistant Adjunct Professor, Radiologic Sciences.

Norton, P. Mary Alice, BS. Clinical Instructor, Medical Technology.

O'Leary, William C., Jr., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

O'Quinn, James L., MD. Clinical Professor, Pathology.

O'Quinn, Mary H., MD. Assistant Clinical Professor, Pathology.

O'Shields, Deborah C., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Odom, John W., MD. Assistant Clinical Professor, Surgery.

Oehrlein, Frederick E., MD. Assistant Clinical Professor, Anesthesiology; Assistant Clinical Professor, Adult Nursing.

Oellerich, Ted O., DMD. Clinical Instructor, Oral Rehabilitation.

Oldham, Harry M., MD. Clinical Instructor, Obstetrics and Gynecology.

Olson, Brian D., DMD. Assistant Clinical Professor, Endodontics.

Oppenheimer, Kimberly C., PhD. Assistant Clinical Professor, Family Medicine; Assistant Clinical Professor, Psychiatry and Health Behavior.

Orangio, Guy R., MD. Clinical Instructor, Surgery.

Osborne, William E., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Ostendorff, Martha H., BA. Clinical Instructor, Medical Technology.

Oswald, Stephen G., DO. Assistant Clinical Professor, Radiology; Assistant Clinical Professor, Radiologic Sciences.

Owen, R. Glen, MD. Clinical Instructor, Obstetrics and Gynecology.

Owen, R. Glen, Jr., MD. Assistant Clinical Professor, Surgery.

Owens, Ronald E., DMD. Clinical Instructor, Oral Rehabilitation.

Packer, Deborah L., MD. Assistant Clinical Professor, Family Medicine.

Page, Malcolm I., MD. Clinical Professor, Medicine.

Palmer, Patricia H., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Palmisano, Glenn P., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Parfenchuck, Thomas A., MD. Assistant Clinical Professor, Surgery.

Paris, Catherine E., MMSc. Associate Clinical Professor, Physical Therapy.

Paris, Ray B., MD. Assistant Clinical Professor, Family Medicine.

Paris, Stanley V., PhD. Clinical Professor, Physical Therapy.

Park, Mary Anne, MSN. Clinical Instructor, Adult Nursing.

Parler, David W., MD. Assistant Clinical Professor, Family Medicine.

Parnell, Denyse N., MBBS. Assistant Clinical Professor, Pathology.

Parrott, Frank H., MD. Assistant Clinical Professor, Medicine.

Parrott, Roxanne, PhD. Assistant Adjunct Professor, Medicine.

Patel, Bipinchandra R., MBChB. Assistant Clinical Professor, Neurology.

Patterson, E. C., DDS. Assistant Clinical Professor, Periodontics.

Patton, Lauren P., BMS. Clinical Instructor, Health Information Management.

Patton, Robert M., MD. Assistant Clinical Professor, Medicine.

Peacock, John D., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Peacock, Ronald T., DDS. Assistant Clinical Professor, Oral and Maxillofacial Surgery.

Pearson, Herbertta F., MD. Assistant Clinical Professor, Family Medicine.

Peebles, Jimmy L., DO. Assistant Clinical Professor, Emergency Medicine.

Perloe, Mark, MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Perrow, Guerrant H., MD. Assistant Clinical Professor, Family Medicine.

Persad-Maharaj, Suresh I., MBBS. Assistant Clinical Professor, Obstetrics and Gynecology.

Peters, Alfred B., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Phelan, Brian K., MD. Assistant Clinical Professor, Medicine.

Phelps, Karen S., MD. Assistant Clinical Professor, Family Medicine.

Phillips, George, DMD. Assistant Clinical Professor, Oral Rehabilitation.

Phillips, Robert L., MD. Assistant Clinical Professor, Family Medicine.

Phillips, Thomas G., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Pickett, Charlton J., MD. Assistant Clinical Professor, Family Medicine.

Pierce, David M., MD. Assistant Clinical Professor, Family Medicine.

Pilcher, A. Reginald, MD. Assistant Clinical Professor, Pediatrics.

Pinson, Marion K., DDS. Assistant Clinical Professor, Periodontics.

Platt, Lynn A., MD. Assistant Clinical Professor, Pediatrics.

Plowman, Kent M., PhD, MD. Adjunct Professor, Oral Biology and Maxillofacial Pathology.

Plummer, Kevin D., DDS. Clinical Instructor, Oral Rehabilitation.

Pohlmann, Bernard H., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Poore, Thomas K., DDS. Assistant Clinical Professor, Periodontics.

Pope, John C., III, BS. Clinical Instructor, Physician Assistant.

Portt, James C., BS. Clinical Instructor, Physician Assistant.

Pradhan, Avinash C., MBBS. Associate Clinical Professor, Physician Assistant.

Pradhan, Medha A, MBBS. Assistant Clinical Professor, Physician Assistant.

Presnell, Richard W., MD. Assistant Clinical Professor, Medicine.

Pressley, Lucius C., MD. Associate Clinical Professor, Psychiatry and Health Behavior.

Preston, C. Dean, MS. Clinical Instructor, Surgery.

Price, Billy R., II, MD. Assistant Clinical Professor, Family Medicine.

Price, Lawrence W., MD. Assistant Clinical Professor, Family Medicine.

Price, Paula F., MSN. Clinical Instructor, Mental Health/Psychiatric Nursing.

Price, Virginia H., MD. Clinical Instructor, Family Medicine.

Proctor, Anne S., BS. Clinical Instructor, Medical Technology.

Prohaska, M. Gregory, DO. Assistant Clinical Professor, Family Medicine.

Pryor, Carol G., MD. Clinical Instructor, Obstetrics and Gynecology.

Puskas, Jane C., DMD, MPH. Assistant Clinical Professor, Oral Diagnosis and Patient Services.

Pylant, F. Neal, Jr., DMD. Assistant Clinical Professor, Periodontics.

Quantz, Newton G., Jr., MD. Assistant Clinical Professor, Surgery.

Quarterman, Mark J., MD. Assistant Clinical Professor, Medicine.

Que, Mila C., BS. Clinical Instructor, Medical Technology.

Quick, Harriet H., BS. Clinical Instructor, Respiratory Therapy.

Quinn, William H., PhD. Associate Clinical Professor, Psychiatry and Health Behavior.

Rackley, R. Hunter, DDS. Clinical Professor, Oral Rehabilitation.

Rafoth, Robert F., DDS. Assistant Clinical Professor, Oral and Maxillofacial Surgery.

Rahimi, Ali R., MD. Associate Clinical Professor, Medicine.

Rainge, Louvenia A., DMD. Clinical Instructor, Oral Rehabilitation.

Rainsford, George L., MD. Associate Clinical Professor, Family Medicine.

Ralston, Thomas M., MD. Assistant Clinical Professor, Radiology.

Ramage, James E., Jr., MD. Associate Clinical Professor, Medicine.

Ramage, Nelle B., MSN. Assistant Clinical Professor, Community Nursing.

Ramsey, Speir N., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Rathbun, John D., MD. Assistant Clinical Professor, Medicine.

Raunikar, Robert A., MD. Clinical Instructor, Pediatrics.

Ray, James L., MD. Assistant Clinical Professor, Family Medicine.

Ray, John W., MD. Assistant Clinical Professor, Radiology.

Reddy, Niranjini T., MBBS. Associate Clinical Professor, Psychiatry and Health Behavior.

Reid, William A., MD. Associate Clinical Professor, Surgery.

Reimer, Jonathan E., MD. Associate Clinical Professor, Family Medicine.

Reynierson, James H., DMD. Clinical Instructor, Oral Rehabilitation.

Reynolds, John D., III, MD. Associate Clinical Professor, Surgery.

Reynolds, Keith E., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Reynolds, Kevin L., AB. Clinical Instructor, Radiologic Sciences.

Reznick, David A., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Rhoades, Robert B., MD. Associate Clinical Professor, Pediatrics.

Rhoden, Carolyn S., BS. Clinical Instructor, Medical Technology.

Richards, Calita S., PharmD. Adjunct Instructor, Medicine.

Richman, Colin S., DMD. Assistant Clinical Professor, Periodontics.

Richwine, Samuel W., Jr., MD. Associate Clinical Professor, Surgery.

Riffle, John E., MD. Assistant Clinical Professor, Ophthalmology.

Rivell, Maria J., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Roberts, Michael F., MD. Associate Clinical Professor, Pediatrics.

Roberts, Sava M., MD. Assistant Clinical Professor, Radiology.

Roberts, William H., MD. Assistant Clinical Professor, Surgery.

Robertson, Rose E., MSN. Clinical Instructor, Mental Health/Psychiatric Nursing; Clinical Instructor, Psychiatry and Health Behavior.

Robinson, Carole C., MPH. Assistant Clinical Professor, Community Nursing.

Robinson, Joe S., Jr., MD. Associate Clinical Professor, Surgery.

Rogers, Michael B., DDS. Assistant Clinical Professor, Orthodontics.

Rogers, Ward B., MD. Assistant Clinical Professor, Medicine.

Rosen, Howard M., MD. Associate Clinical Professor, Medicine.

Rosenblum, Frederick J., MD. Assistant Clinical Professor, Medicine.

Rosengart, Carl L., MD. Associate Clinical Professor, Neurology.

Rosenquist, Judith W., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Rosenthal, David, MD. Clinical Professor, Surgery.

Ross, Jack R., MD. Assistant Clinical Professor, Family Medicine.

Rousso, Jack D., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Rowlett, John D., MD. Assistant Clinical Professor, Pediatrics.

Ruck, David C., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Rucker, Benjamin L., MD. Assistant Clinical Professor, Medicine.

Rudolph, Raymond, MD. Assistant Clinical Professor, Surgery.

Rufo, Raymond T., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Russell, Dee B., MD. Associate Clinical Professor, Family Medicine.

Rychly, Robert E., MD. Clinical Instructor, Medicine.

Rydzak, Edward, MD. Assistant Clinical Professor, Medicine.

Sacks, Linda M., MD. Associate Clinical Professor, Pediatrics.

Salama, Maurica A., DMD. Assistant Clinical Professor, Periodontics.

Salazar, Pamela B., MD. Assistant Clinical Professor, Pediatrics.

Saltzman, Steven L., MD. Associate Clinical Professor, Obstetrics and Gynecology.

Sams, Deirdre R., DDS. Associate Clinical Professor, Pediatric Dentistry.

Sanders, Beverly B., Jr., MD. Clinical Professor, Medicine.

Sanders, Harvey J., Jr., MD. Assistant Clinical Professor, Medicine.

Sasnett, Richard B., Jr., MD. Assistant Clinical Professor, Surgery.

Saxton, Craig R., MD. Associate Clinical Professor, Medicine.

Scaggs, Donald F., MPAS. Clinical Instructor, Physician Assistant.

Scheffer, Russell E., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Schilling, Robinson W., Jr., MD. Assistant Clinical Professor, Surgery.

Schnuck, Lloyd B., Jr., MD. Assistant Clinical Professor, Radiology.

Schoborg, Thomas W., MD. Associate Clinical Professor, Surgery.

Schroen, John F., Sr., BS. Clinical Instructor, Radiologic Sciences.

Schultz, Everett H., Jr., MD. Associate Clinical Professor, Radiology.

Schwartz, Meyer P., MD. Assistant Clinical Professor, Family Medicine.

Schwartz, Paul B., MD. Assistant Clinical Professor, Medicine.

Schwartz, Seth, MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Schweinebraten, Marie C., DMD. Assistant Clinical Professor, Periodontics.

Scurry, R. Brooks, Jr., MD. Assistant Clinical Professor, Surgery.

Seals, Deedee H., BS. Clinical Instructor, Health Information Management.

Seegar, Charlon, MSW. Assistant Clinical Professor, Psychiatry and Health Behavior.

Seklecki, Roger M., DO. Assistant Clinical Professor, Family Medicine.

Servy, Edouard J., MD. Assistant Clinical Professor, Physiology and Endocrinology.

Sethi, Ranjit K., MBBS. Assistant Clinical Professor, Neurology.

Seward, Paul N., MD. Assistant Clinical Professor, Emergency Medicine.

Sewell, R. Patrick, DMD. Clinical Instructor, Oral Rehabilitation.

Sexton, Joel S., MD. Associate Clinical Professor, Pathology.

Shaefer, Charles F., Jr., MD. Assistant Clinical Professor, Medicine.

Shannon, George W., MD. Associate Clinical Professor, Family Medicine.

Sharma, Kailash B., MBBS. Associate Clinical Professor, Pathology.

Sharma, Sarita B., MBBS. Assistant Clinical Professor, Psychiatry and Health Behavior.

Shatz, Peter C., DDS. Assistant Clinical Professor, Periodontics.

Shell, Sheila A., BS. Clinical Instructor, Medical Technology.

Sherman, Harry C., MD. Associate Clinical Professor, Surgery.

Shiflett, Robert A., DMD. Clinical Instructor, Oral Rehabilitation.

Shin, Stanley J., MD. Assistant Clinical Professor, Medicine.

Shippey, John E., Jr., MD. Assistant Clinical Professor, Pathology.

Shirey, Theresa L., BS. Clinical Instructor, Occupational Therapy.

Shirley, J. C., DMD. Assistant Clinical Professor, Pediatric Dentistry.

Shivaswamy, Subbarayappa, MBBS. Associate Clinical Professor, Psychiatry and Health Behavior.

Shiver, Charles B., Jr., MD. Clinical Professor, Medicine.

Shlaer, S. Michael, MD. Associate Clinical Professor, Medicine.

Shleifer, Nison H., MD. Assistant Clinical Professor, Medicine.

Shoemaker, Doris M., MLM. Assistant Adjunct Professor, Medical Technology.

Shoemaker, Mary M., BS. Clinical Instructor, Medical Technology.

Shook, Thomas E., MD. Assistant Clinical Professor, Surgery.

Shull, Nancy B., MD. Assistant Clinical Professor, Pediatrics.

Sibley, Deborah, MSN. Assistant Clinical Professor, Parent-Child Nursing.

Silk, Howard J., MD. Assistant Clinical Professor, Pediatrics.

Silver, William E., MD. Associate Clinical Professor, Surgery.

Silverstein, Lee H., DDS. Associate Clinical Professor, Periodontics.

Simon, Joseph E., MD. Assistant Clinical Professor, Pediatrics.

Simonds, David C., DMD. Clinical Instructor, Oral Rehabilitation.

Simpson, Jon A., MD. Assistant Clinical Professor, Surgery.

Sims, Jeffrey D., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Sims, Michael C., MD. Assistant Clinical Professor, Family Medicine.

Singh, Harinderjit, MBBS. Assistant Clinical Professor, Ophthalmology.

Singh, Ram B., MBBS. Assistant Clinical Professor, Physician Assistant.

Skandalakis, John E., MD. Clinical Professor, Surgery.

Sloan, Wyman P., III, MD. Assistant Clinical Professor, Medicine.

Smisson, Hugh F., III, MD. Assistant Clinical Professor, Surgery.

Smith, Anthony V., MD. Assistant Clinical Professor, Family Medicine.

Smith, Beth A., MA. Clinical Instructor, Surgery.

Smith, Cathy J., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Smith, Connie L., BS. Clinical Instructor, Health Information Management.

Smith, Craig E., MD. Assistant Clinical Professor, Medicine.

Smith, David H., MD. Assistant Clinical Professor, Surgery.

Smith, Diane K., MD. Associate Clinical Professor, Medicine.

Smith, Don T., MD. Associate Clinical Professor, Family Medicine.

Smith, James D., MD. Clinical Instructor, Obstetrics and Gynecology.

Smith, Kenneth L., BS. Clinical Instructor, Physician Assistant.

Smith, Leon F., MD. Assistant Clinical Professor, Family Medicine.

Smith, Mallory G., MD. Assistant Clinical Professor, Family Medicine.

Smith, Michael O., BS. Clinical Instructor, Physician Assistant.

Smith, Randolph R., MD. Clinical Instructor, Surgery.

Smith, Robert E., MD. Associate Clinical Professor, Family Medicine.

Smith, Roberta M., MD. Associate Clinical Professor, Pediatrics.

Smith, Stanley T., Jr., MD. Associate Clinical Professor, Medicine.

Smith, W. Sean, MD. Assistant Clinical Professor, Radiology.

Smith-Lee, Helen W., DDS. Clinical Instructor, Oral Rehabilitation.

Snowdy, Harry A., Jr., MD. Associate Clinical Professor, Surgery.

Sobrinho, Tito C.M., MD. Assistant Clinical Professor, Pediatrics.

Solms, Kelly K., MD. Assistant Clinical Professor, Pediatrics.

Soparas, Joseph S., BS. Assistant Clinical Professor, Physician Assistant.

Sorsdahl, Oliver A., MD. Assistant Clinical Professor, Radiology.

Soteres, James S., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Spangler, Dennis L., MD. Assistant Clinical Professor, Pediatrics.

Sparks, J. Martin, MSN. Clinical Instructor, Adult Nursing.

Spearman, D. Ronald, MD. Associate Clinical Professor, Medicine.

Specht, William J., MA, MS. Assistant Clinical Professor, Respiratory Therapy.

Spellman, John G., MD. Assistant Clinical Professor, Medicine.

Sperr, Edwin V., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Sperr, Shelby J., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Spirnak, Joseph P., MD. Assistant Clinical Professor, Radiology.

Sridharan, Marandapalli R., MBBS. Clinical Professor, Medicine.

Sridharan, Vidya C., MBBS. Assistant Clinical Professor, Medicine.

Stallings, Roosevelt J., MD. Assistant Clinical Professor, Surgery.

Stanley, Thomas M., MD. Assistant Clinical Professor, Medicine.

Star, Franklin J., MD. Assistant Clinical Professor, Surgery.

Stark, Nancy L., MSN. Clinical Instructor, Adult Nursing.

Stein, Stanley A., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Steiner, Drew J., MD. Assistant Clinical Professor, Family Medicine.

Stella, Ronald A., MD. Clinical Instructor, Emergency Medicine.

Stephens, Julius A., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Stephens, William H., Jr., MD. Assistant Clinical Professor, Medicine.

Stern, Phyllis N., DNS. Adjunct Professor, Community Nursing.

Sterrett, John D., DDS. Associate Clinical Professor, Periodontics.

Stewart, Carbon T., BS. Clinical Instructor, Physician Assistant.

Stewart, Mark J., MD. Assistant Clinical Professor, Anesthesiology.

Stilp, Francis J., BSN. Clinical Instructor, Community Nursing.

Stocks, S. Allan, MD. Clinical Instructor, Ophthalmology.

Stockwell, Karyn L., DMD. Clinical Instructor, Oral Rehabilitation.

Stoppenhagen, David R., MD. Assistant Clinical Professor, Radiology.

Story, Stacy H., III, MD. Clinical Instructor, Anesthesiology.

Stough, Gary E., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Stough, Joe T., III, MBA. Adjunct Instructor, Health Information Management.

Stowers, Robert G., BS. Clinical Instructor, Physician Assistant.

Stowers, Sheryl W., BS. Clinical Instructor, Physician Assistant.

Stringer, Edward F., III, MD. Assistant Clinical Professor, Surgery.

Styne, Silvia M., BS. Clinical Instructor, Physician Assistant.

Sullwold, Arthur F., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Summers, Mary N., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Summers, Roland S., MD. Associate Clinical Professor, Medicine.

Sumner, Jean R., MD. Assistant Clinical Professor, Medicine.

Sunde, David A., PhD, MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Sussman, Hy C., MD. Clinical Professor, Medicine.

Swanson, Greg S., PhD. Assistant Adjunct Professor, Psychiatry and Health Behavior.

Swayne, Gregory M., MS. Assistant Adjunct Professor, Medical Illustration.

Swords, Edwin I., DDS. Clinical Instructor, Oral Rehabilitation.

Tamareselvy, Krishnan, PhD. Adjunct Instructor, Oral Rehabilitation.

Tanenbaum, Julian B., MD. Clinical Professor, Pediatrics.

Tanner, R. Eugene, MD. Associate Clinical Professor, Pediatrics.

Tanner, Terrell B., MD. Assistant Clinical Professor, Family Medicine.

Tarpley, Barry T., MD. Assistant Clinical Professor, Medicine.

Taylor, A. Thomas, PharmD. Clinical Professor, Medicine; Clinical Professor, Family Medicine Clinical Professor, Community Nursing.

Taylor, David M., MD. Assistant Clinical Professor, Medicine.

Taylor, Roslyn D., MD. Associate Clinical Professor, Family Medicine.

Taylor-Glover, Sonya S., DMD. Clinical Instructor, Oral Rehabilitation.

Temples, Heide S., MSN. Clinical Instructor, Parent-Child Nursing.

Templeton, Damon A., MD. Assistant Clinical Professor, Anesthesiology.

Terry, Alvin V., Jr., PhD. Assistant Adjunct Professor, Pharmacology and Toxicology; Assistant Adjunct Professor, Neurology.

Terry, Valerie D., BS. Clinical Instructor, Respiratory Therapy.

Thaxton, Paul M., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Thevaos, Theo G., MD. Clinical Professor, Neurology; Associate Clinical Professor, Pediatrics.

Thigpen, C. Mark, MD. Clinical Instructor, Surgery.

Thigpen, Corbett H., MD. Clinical Professor, Psychiatry and Health Behavior.

Thomas, David R., III, MD. Associate Clinical Professor, Medicine.

Thomas, Luther M., Jr., MD. Associate Clinical Professor, Medicine.

Thomas, Lynda L., BS. Adjunct Instructor, Respiratory Therapy.

Thompson, Elizabeth J., BS. Clinical Instructor, Health Information Management.

Thompson, Herman O., Jr., MD. Clinical Instructor, Medicine.

Thompson, Katharina M., BS. Clinical Instructor, Physician Assistant.

Thompson, Mary L. M., MD. Clinical Instructor, Medicine.

Thompson, Myrna R., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Thompson, Robert E., MD. Assistant Clinical Professor, Family Medicine.

Thoresen, Robert J., PhD. Associate Clinical Professor, Psychiatry and Health Behavior.

Thurmond, George W., MD. Assistant Clinical Professor, Surgery.

Thyer, Bruce A., PhD. Associate Clinical Professor, Psychiatry and Health Behavior.

Tiernan, Steven M., MD. Assistant Clinical Professor, Emergency Medicine.

Tierney, Elizabeth D., MBA. Assistant Clinical Professor, Health Information Management.

Tikare, Satyanarayana K., MBBS. Assistant Clinical Professor, Medicine.

Tikare, Sneha, MBBS, MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Tilby, Linda, MSN. Assistant Clinical Professor, Adult Nursing.

Tindol, George A., Jr., MD. Clinical Instructor, Medicine.

Tinkelman, David G., MD. Clinical Professor, Pediatrics.

Tinsley, Sheila J., BS. Clinical Instructor, Medical Technology.

Toland, A. Daniel, DO. Assistant Clinical Professor, Surgery.

Tollison, C. David, PhD. Associate Clinical Professor, Anesthesiology.

Torch, Evan M., MD. Associate Clinical Professor, Psychiatry and Health Behavior.

Towner, Susan B., MSN. Clinical Instructor, Adult Nursing.

Tracy, Lee H., MN. Clinical Instructor, Adult Nursing.

Trager, Peter S., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Trapp, J. Douglas, MD. Associate Clinical Professor, Surgery.

Treadwell, Catherine G., BS. Clinical Instructor, Medical Technology.

Trello, Connie A., MD. Assistant Clinical Professor, Medicine.

Trenteseau, Jeanne A., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Trincher, Rose C., MD. Assistant Clinical Professor, Medicine.

Trotter, T. Barrett, DMD. Assistant Clinical Professor, Orthodontics.

Troyer, Richard B., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Tsai, Enoch N., MD. Clinical Instructor, Ophthalmology.

Tucker, Jeff G., MD. Assistant Clinical Professor, Surgery.

Tucker, Lynn M., MD. Assistant Clinical Professor, Surgery.

Turner, Robert F., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Turner, Wiley H., MD. Associate Clinical Professor, Family Medicine.

Tyson, Mary Lynn, MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Ujhelyi, Michael R., PharmD. Associate Clinical Professor, Medicine.

Ulbrich, Peter J., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Unwin, Brian K., MD. Assistant Clinical Professor, Family Medicine.

Van Giesen, George E., MD. Clinical Professor, Medicine.

Van Orman, Barry S., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Veazey, Charles R., MD. Assistant Clinical Professor, Surgery.

Veazey, Philip R., MD. Assistant Clinical Professor, Surgery.

Vernon, Michael O., DMD. Clinical Instructor, Oral Rehabilitation.

Vetrosky, Daniel T., BHS. Clinical Instructor, Physician Assistant.

Victor, Irving, MD. Associate Clinical Professor, Surgery.

Vigrass, Howard G., MD. Associate Clinical Professor, Family Medicine.

Vogel, F. Stephen, MD. Clinical Professor, Pathology.

Wade, Mary S., BS. Clinical Instructor, Physical Therapy.

Waldo, Karen L., MS. Associate Adjunct Professor, Medical Illustration.

Waldrep, Douglas A., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Waldron, Jonathan C., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Walker, George S., III, MD. Clinical Instructor, Medicine.

Walker, Willis J., Jr., DMD. Clinical Instructor, Oral Rehabilitation.

Wall, Albert M., III, MD. Associate Clinical Professor, Obstetrics and Gynecology.

Wall, Hilton F., MD. Associate Clinical Professor, Medicine.

Wallace, Edwin R., IV, MD. Clinical Professor, Psychiatry and Health Behavior.

Wallace, Patricia B., MN. Assistant Clinical Professor, Mental Health/Psychiatric Nursing.

Wallentine, Brett K., MD. Assistant Clinical Professor, Family Medicine.

Waller, James T., MD. Clinical Professor, Medicine.

Walter, Jonne B., MD. Assistant Clinical Professor, Medicine.

Walters, Gordon E., MD. Associate Clinical Professor, Medicine.

Walters, Patrick I., MEd. Assistant Clinical Professor, Physician Assistant.

Wangsnes, Kraig M., MD. Assistant Clinical Professor, Medicine.

Wansley, William D., BS. Clinical Instructor, Medical Technology.

Waters, Candace C., MSN. Clinical Instructor, Adult Nursing.

Waters, Donald B., MD. Associate Clinical Professor, Family Medicine.

Waters, Richard W., DMD. Clinical Instructor, Oral Diagnosis and Patient Services.

Watkins, Patricia N., MD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Watson, Benjamin L., MD. Assistant Clinical Professor, Medicine.

Watts, Michael A., MD. Assistant Clinical Professor, Surgery.

Weinman, Richard A., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Weinstein, Raymond M., PhD. Associate Adjunct Professor, Psychiatry and Health Behavior.

Weisman, Manuel I., DDS. Clinical Professor, Endodontics.

Wells, David B., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Wells, Donald L., MS. Clinical Instructor, Medical Technology.

Wells, Jennifer C., DMD. Clinical Instructor, Oral Rehabilitation.

Welsch, Christopher T., MD. Clinical Instructor, Obstetrics and Gynecology.

Welsh, William J., MD. Assistant Clinical Professor, Surgery.

West, John H., MD. Assistant Clinical Professor, Medicine.

West, Lesley A., DDS. Assistant Clinical Professor, Endodontics.

West, Robert L., DMD. Assistant Clinical Professor, Oral Rehabilitation.

Weyermann, Andrea G., PhD. Assistant Clinical Professor, Psychiatry and Health Behavior.

Wheeler, George A., Jr., MD. Assistant Clinical Professor, Family Medicine.

Wherry, Richard A., MD. Assistant Clinical Professor, Family Medicine.

Whitaker, S. Bryan, DDS. Assistant Clinical Professor, Oral Biology and Maxillofacial Pathology; Assistant Clinical Professor, Oral Diagnosis and Patient Services.

White, Evelyn W., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Whitehouse, Alan B., MD. Assistant Clinical Professor, Surgery.

Whitfield, Margaret R., MSN. Clinical Instructor, Adult Nursing.

Whitlock, Warren L., MD. Assistant Clinical Professor, Medicine.

Whitworth, Jeri G., BS. Clinical Instructor, Health Information Management.

Wicker, Marie S., BS. Clinical Instructor, Medical Technology.

Wiley, Daryl C., MD. Assistant Clinical Professor, Family Medicine.

Wilhelmi, Louis J., MD. Assistant Clinical Professor, Family Medicine.

Wilkes, Leslie L., MD. Assistant Clinical Professor, Surgery.

Williams, Dennis G., MD. Assistant Clinical Professor, Family Medicine.

Williams, G. Patrick, MD. Assistant Clinical Professor, Obstetrics and Gynecology; Assistant Clinical Professor, Parent-Child Nursing.

Williams, George W., Jr., MD. Assistant Clinical Professor, Obstetrics and Gynecology.

Williams, Hadyn T., MD. Assistant Clinical Professor, Radiology.

Williams, James S., MD. Clinical Professor, Surgery.

Williams, R. Lane, BS. Clinical Instructor, Health Information Management.

Williams, Roger S., MD. Assistant Clinical Professor, Anesthesiology.

Williams, Russell C., DDS. Assistant Clinical Professor, Oral Rehabilitation.

Williams, Sandra S., BS. Clinical Instructor, Health Information Management.

Williams, Stewart A., MD. Assistant Clinical Professor, Family Medicine.

Williamson, Eugene H., DDS. Clinical Professor, Orthodontics; Clinical Professor, Surgery.

Williamson, Paul S., MD. Associate Clinical Professor, Family Medicine.

Williford, Kathryn K., MD. Assistant Clinical Professor, Pediatrics.

Willis, Sharon, BSDMS. Clinical Instructor, Radiologic Sciences.

Willoughby, Michael L., MD. Assistant Clinical Professor, Medicine.

Wilson, John P., MD. Clinical Professor, Surgery.

Wilson, Russell A., MD. Assistant Clinical Professor, Surgery.

Winecoff, Allison P., PharmD. Assistant Clinical Professor, Medicine.

Winger, Leland H., Jr., MSN. Clinical Instructor, Adult Nursing.

Winn, Francis J., Jr., PhD. Assistant Adjunct Professor, Physician Assistant.

Winn, William M., MS. Assistant Adjunct Professor, Medical Illustration.

Wirth, Fremont P., MD. Assistant Clinical Professor, Surgery.

Wise, Scott C., BS. Clinical Instructor, Medical Technology.

Wispert, Charles M., BS. Clinical Instructor, Physician Assistant.

Witherington, Roy, MD. Clinical Professor, Surgery.

Wolf, Charles R., III, MD. Assistant Clinical Professor, Neurology.

Wooten, Carla R., BS. Clinical Instructor, Health Information Management.

Wright, Allison L., MS. Adjunct Instructor, Medical Illustration.

Wylie, William J., MD. Clinical Instructor, Medicine.

Wynn, Robert A., MD. Assistant Clinical Professor, Surgery.

Xenakis, Stephen N., MD. Clinical Professor, Psychiatry and Health Behavior.

Yarbrough, John A., MD. Assistant Clinical Professor, Medicine.

Yeager, E. Stephen, MD. Assistant Clinical Professor, Surgery.

Young, Jeanette S., EdD. Assistant Clinical Professor, Surgery.

Young, Kenneth H., DDS. Clinical Instructor, Oral Rehabilitation.

Yount, Avis B., MD. Clinical Instructor, Medicine.

Yrizarry, Elizabeth G., BS. Clinical Instructor, Physician Assistant.

Zadinsky, Julie K., PhD. Assistant Clinical Professor, Community Nursing.

Zamrini, Edward Y., MD. Associate Clinical Professor, Psychiatry and Health Behavior; Associate Clinical Professor, Neurology.

Zange, Thomas G., MS. Clinical Instructor, Medical Technology.

Zarinczuk, James, MDCM. Assistant Clinical Professor, Family Medicine.

Zlock, Gregory, DMD. Assistant Clinical Professor, Oral Rehabilitation.

Zoller, Michael, MD. Associate Clinical Professor, Surgery.

Zubowicz, Vincent N., MD. Assistant Clinical Professor, Surgery.

Zumbro, G. Lionel, Jr., MD. Assistant Clinical Professor, Surgery.


MEDICAL COLLEGE OF GEORGIA
1828
GEORGIA'S HEALTH SCIENCES UNIVERSITY