



AMERICAN  
UNIVERSITY  
*of* ANTIGUA

COLLEGE OF MEDICINE

ACADEMIC CATALOG  
2023

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## MISSION STATEMENT

American University of Antigua (AUA) College of Medicine is an innovative medical school dedicated to providing a learner-centric education of the highest quality, offering opportunities to underrepresented minorities, fostering a diverse academic community, and ensuring that its graduates have the skills and attitudes of lifelong learning, compassion, and professionalism. We provide students who would otherwise be unable to receive a medical education with the tools to become successful physicians.

AUA was founded with the commitment to support underserved communities and address the impending physician shortage with an emphasis on primary care. As such, the University recognizes its social responsibility to advance the field of medicine and lead the next generation of physicians and healthcare professionals to respond to global healthcare needs.

## LETTER FROM THE PRESIDENT

The present physician shortage, which is predicted to grow at an alarming rate over the next 20 years, means that the employment opportunities for young physicians to practice medicine throughout the U.S. and the world are limitless. New graduates have unequalled opportunities to practice their profession while serving the public good.

The failure of U.S. medical schools to provide enough medical school seats to meet demand has resulted in many extremely qualified applicants not being admitted to U.S. medical schools. The inability of U.S. medical schools to address the physician shortage and their failure to address the lack of diversity in medicine were two major catalysts that compelled AUA's founders to establish a medical school.

AUA is proud to offer qualified applicants the opportunity to attain their dreams of becoming licensed physicians by providing high quality, high-tech medical education facilities and, more important, highly respected and caring faculty. In doing so, we are addressing the physician shortage and the lack of diversity in medicine.

At AUA, we view medical education as a partnership between the institution and its students. AUA offers the necessary tools to provide you with the education that will prepare you to become a successful and caring physician. We expect our students to provide the hard work, dedication, and compassion that allow them to use the tools we provide to reach their goals for their benefit and to serve the healthcare needs of our population.

I look forward to having qualified applicants join us to achieve their goal of becoming competent caring physicians in the U.S. and Canada and in the jurisdictions of their choice throughout the world.



Neal S. Simon  
*President, American University of Antigua College of Medicine*

## ACCREDITATIONS AND APPROVALS

American University of Antigua College of Medicine awards Medical Doctorate (MD) degrees to its graduates pursuant to a charter granted to the University by the Government of Antigua and Barbuda. American University of Antigua College of Medicine is accredited by the Government of Antigua and Barbuda through the regional accreditation authority, the Caribbean Accreditation Authority on Education in Medicine and Other Health Professions (“CAAM-HP”). The National Committee on Foreign Medical Education and Accreditation of the United States Department of Education (“NCFMEA”) has recognized the Government of Antigua and Barbuda as having processes and procedures for the accreditation of medical schools that are comparable to those of the Liaison Commission on Medical Education (“LCME”), the accreditation authority for medical schools in the United States and Canada.

American University of Antigua College of Medicine has been recognized by the Medical Board of California for licensure of its graduates and for providing clerkships in the state. The New York State Education Department has also approved American University of Antigua, which allows AUACOM’s students to engage in clinical clerkship training and residency in the state. The Florida Commission for Independent Education has likewise granted approval for AUACOM’s students to engage in clinical clerkship training in the state. AUACOM’s graduates are eligible for licensure throughout the United States and Canada. The Board of Registration in Medicine of the State of Massachusetts has included AUA among a very short list of international medical schools whose graduates are deemed to have been provided an education that is comparable to the education afforded students in medical schools in the United States. As a result, AUA’s graduates seeking permits for residency training or full licensure will not need to demonstrate such comparability or obtain a waiver of regulations applicable to international medical schools that do not have clinical training hospitals on their campuses.

**2023 ACADEMIC CALENDAR**

January 2	Monday	New Year's Day Observed – University Closed
January 3	Tuesday	In-Person Confirmation for GHT BSIC Students (9am – 10am)
January 9	Monday	Classes begin for GHT BSIC Students In-Person Confirmation for Returning GHT Students (MED 2, 3 & 4) Noon-2pm Classes begin for returning AUA GHT Students (MED 2, 3 & 4) In-Person Confirmation for BSIC Students (9am – 4pm) FM1/IM1 term begins
January 10	Tuesday	Classes begin for BSIC students
January 17	Tuesday	In-Person Confirmation for new GHT Students (MED1) 9am – 1pm
January 18	Wednesday	Classes begin for new AUA GHT Students (MED1)
January 19	Thursday	In-Person Confirmation for MED2, 3 & 4 students (last name A-L) 9am – 4pm
January 20	Friday	In-Person Confirmation for MED2, 3 & 4 students (last name M-Z) 9am – 4pm
January 23	Monday	Classes begin for MED 2,3 &4
February 1	Wednesday	In-Person Confirmation for New MED1 students (last name H-Z) 9am –4pm
February 2	Thursday	In-Person Confirmation for New MED1 students (last name A-G) 9am –1pm In-Person Confirmation for Returning MED1 students 1pm –4pm
February 2 – 3	Thursday – Friday	New Student Orientation
February 5	Monday	Classes begin for MED 1 students
March 3	Friday	Classes end for FM1/IM1 term
March 6	Monday	FM1/IM1 term begins
March 17	Friday	Classes end for BSIC students
March 18 – April 11	Saturday – Tuesday	BSIC study period
April 7	Friday	Good Friday – Classes not in session
April 10	Monday	Easter Monday – Classes not in session
April 12	Wednesday	Mandatory Comprehensive Basic Science Shelf Exam for BSIC students
April 28	Friday	Classes end for FM1/IM1 term
May 1	Monday	Labour Day -Classes not in session FM1/IM1 term begins

May 26	Friday	Commencement Ceremony
May 29	Monday	Whit Monday – Classes not in session
June 2	Friday	Classes end for MED 2, 3 & 4
June 16	Friday	MED 1 ends
June 19	Monday	Juneteenth – Classes not in session
June 23	Friday	Classes end for FM1/IM1 term
June 26	Monday	FM1/IM1 term begins
July 3	Monday	In-Person Confirmation for GHT BSIC Students (9am – 10am)
		Classes begin for GHT BSIC Students
July 10	Monday	In-Person Confirmation for BSIC Students (9am – 4pm)
		In-Person Confirmation for Returning GHT Students (MED 2, 3 & 4) Noon-2pm
		Classes begin for returning GHT Students (Med 2, 3 & 4)
July 11	Tuesday	Classes begin for BSIC students
July 20	Thursday	In-Person Confirmation for MED2, 3 & 4 students (last name M-Z) 9am – 4pm
July 21	Friday	In-Person Confirmation for MED2, 3 & 4 students (last name A-L) 9am – 4pm
July 24	Monday	Classes begin for MED 2,3 &4
July 26	Wednesday	In-Person Confirmation for new GHT Students (MED1) 9am – 1pm
July 27	Thursday	Classes begin for new GHT Students (MED1)
August 7 – 8	Monday – Tuesday	Carnival – Classes not in session
August 11	Friday	In-Person Confirmation for New MED1 students (last name A-H) 9am –11:30am
		In-Person Confirmation for New MED1 students(last name I-P)11:30am-1:30pm
		In-Person Confirmation for New MED1 students (last name Q-Z) 1:30pm - 4pm
August 11 – 12	Friday – Saturday	Orientation for ALL MED1 students
August 14	Monday	Classes begin for MED1 students
		In-Person Confirmation for Returning MED1 students 2pm –4pm
August 18	Friday	Classes end for FM1/IM1 term
August 21	Monday	FM1/IM1 term begins
September 15	Friday	Classes end for BSIC students
September 16 –		
October 5	Saturday – Thursday	BSIC study period
October 6	Friday	Mandatory Comprehensive Basic

October 13	Friday	Science Shelf Exam for BSIC students
October 16	Monday	Classes end for FM1/IM1 term
November 1	Wednesday	FM1/IM1 term begins
December 1	Friday	Independence Day – Classes not in Session
December 20	Wednesday	Classes end for MED 2, 3 & 4
December 25	Monday	MED 1 ends
December 26	Tuesday	Classes end for FM1/IM1 term
December 27	Wednesday	Christmas Day – University Closed
		Boxing Day – University Closed
		Christmas Eve (observed) – University Closed



## CURRICULUM OVERVIEW

AUACOM's educational program leading to the Medical Doctorate (MD) degree is a 4.5-year program consisting of 2.5 academic years of study on AUACOM's campus in Antigua and 84 weeks of study in the Clinical Sciences through clerkships in teaching hospitals principally in the United States.

In order to provide the most innovative and current methods for delivery of a medical education, AUA's curriculum brings medical disciplines together and fosters greater communication and cooperation between departments. Although each branch of medical science has its own importance and essence, the current trend in medical education is the delivery of a medical school curriculum through integration of those branches. AUA's curriculum has been developed with the goal of achieving an integrated and flexible curriculum that goes beyond examinations. It promotes the skill and art of medicine, critical thinking, and lifelong learning.

## D E G R E E   C O N F E R R A L

To satisfy the requirements for graduation and obtain a medical diploma (MD degree), a student must comply with the below criteria:

1. Complete and pass all requirements of the Preclinical Sciences component;
2. Complete and pass all requirements of the Clinical Sciences component, including all core and elective rotations;
3. Pass USMLE Step 1 and Step 2 CK
  - a. Students must request the USMLE Certified Transcript of Scores for USMLE Step 1, Step 2 CK from ECFMG to be submitted to the Office of the Registrar as part of the degree audit;
  - b. Students who do not plan to practice medicine in the United States can meet their graduation requirements by passing the Medical Council of Canada Qualifying Examination (MCCQE Part I) or by passing the NBME International Foundations of Medicine Examination (IFOM Clinical Science Examination). Students should be aware that while passing the MCCQE Part I Examination or the IFOM Clinical Science Examination meet the requirements for graduation from AUA, obtaining a passing USMLE Step 2 CK score is required for residency training in the United States.
4. Fulfill all financial and bursarial responsibilities assuring a “zero” balance;
5. Maintain good standing.

AUA students have the opportunity to complete the requirements for the MD degree at five different points throughout the year. Consequently, students will be considered AUA graduates on one of the five graduation dates after which they have completed their graduation requirements. Students completing all MD requirements between:

1. July 1 and September 30, xxxx will receive a diploma dated **September 30, xxxx**
2. October 1 and December 31, xxxx will receive a diploma dated **December 31, xxxx**
3. January 1 and March 31, xxxx will receive a diploma dated **March 31, xxxx**
4. April 1 and April 30, xxxx will receive a diploma dated **April 30, xxxx**
5. May 1 and June 30, xxxx will receive a diploma based on **the date of MD graduation requirement completion**

Graduates cannot receive a copy of their diploma prior to the diploma date and final degree audit clearance. Once your graduation date has passed and the final degree audit is completed, diplomas for all graduates are mailed to the address provided in your student record.

### **Bachelor of Science in Human Health Sciences (BHHS) Degree**

This four-year degree program will provide students who are enrolled in the MD Degree Program at AUA College of Medicine with the opportunity to earn a B.S. in Human Health Sciences. The BHHS degree is designed for students who have earned their A.S. through American International College of Arts and Sciences – Antigua (AICASA)\* and/or do not have a B.S./B.A. degree upon enrolling in AUA College of Medicine. Please visit the AUA website for additional information.

\*Degree conferred by AUA College of Medicine. AUA and AICASA are two wholly separate educational institutions.

## GLOBAL HEALTH TRACK

The American University of Antigua, College of Medicine (AUA) Global Health Track is conducted in collaboration with Florida International University, Herbert Wertheim College of Medicine (FIU).

The Global Health Track is a comprehensive, four-year longitudinal track in global health that is integrated into the curriculum at American University of Antigua, College of Medicine.

Global Health has been defined as “the area of study, research and practice that places a priority on improving health and achieving equity in health for all people worldwide” by the Consortium of Universities for Global Health. Global Health addresses the health of populations in a global context and transcends the political boundaries of nations focusing on social determinants of health, healthcare disparities including infectious and non-communicable disease issues, human rights as well as economic development, and policy and system issues.

The purpose of the Global Health Track is to support and guide students in developing expertise in global health with the goal of a subsequent career involving patient care, service, policy making, research and education at a global level.

Students attending the Global Health Track are introduced to the study of community and public health, primary care, epidemiology and treatment of communicable and non-communicable diseases on a global basis.

The required textbook is: *Global Health 101*, 4th edition, Richard Solnick, MPA, Yale, School of Public Health, New Haven, Connecticut,

ISBN-13: 9781284050547

The Global Health Track is open to all eligible entering medical students at AUA.

The longitudinal Global Health Track is structured along the following themes:

- Governance (Health Systems, Economics, Ethics, etc.)
- Burden of Disease (Child Health, Women Health and the health of other vulnerable populations, Communicable Diseases, Non-Communicable Diseases, etc.)
- Physical, Mental & Social Wellbeing
- Technology
- Security (Environment, Complex Humanitarian Emergencies, Intelligence, etc.)
- Climate Change
- Medical Spanish
- AHA BLS & ACLS instructor training

The 2-year PRECLINICAL SCIENCES component is conducted on the campus of AUA in Antigua. It consists of four 2-week blocks (before MED 1, MED 2, MED 3 and MED 4), and a 1-week block before the Basic-Science-Integration course. It comprises horizontal and longitudinal coursework during MED 1 through to BSIC.

The lectures are conducted by international faculty (e.g. FIU, University of the West Indies, State University of New York, Cornell University, New York University, University of Illinois, University of Nevada, United Nations, Doctors Without Borders among others) and AUA faculty.

In addition, students conduct field trips and exercises and are introduced to research methodology.

Students in the Global Health Track receive American Heart Association training in Basic and Advanced Cardiac Life Support and have an option to receive AHA instructor training and certification.

The PRECLINICAL SCIENCE component includes an introduction to Medical Spanish and is supplemented by a Global Health Journal Club. A minimum of 100% attendance is required in order to pass each block. All students enrolled in the course will receive either a grade of “PNC” (Pass No Credit) or “F” (Fail) accordingly. The “PNC” grade will not affect overall GPA; therefore, no credits will be awarded.

To facilitate students’ academic success, students who either choose or are required to repeat the semester or year during the preclinical years will no longer be able to stay enrolled in the Global Health Track program and may not rejoin GHT after completion of a repeated semester or year. Additionally, students who voluntarily withdraw from the preclinical GHT will not be able to rejoin at a later date.

The CLINICAL SCIENCES component is conducted at FIU’s clinical sites in Florida and AUA affiliated clinical sites within the US and abroad. Students will participate in the Advanced Introduction to Clinical Medicine (FM1/IM1) rotation at FIU and the AUA-FIU Graduate Clinical Core Rotation Certificate Program (upon successful completion of requirements and acceptance by the graduate certificate program admission committee). After completion of the graduate clinical core rotation certificate program at FIU students attend elective rotations through FIU and AUA in the US and internationally. Students have the opportunity to join AUA faculty initiated international relief projects and to deepen their expertise in global health research. The clinical component is supplemented by medical Spanish exposure. 100% attendance is required during the clinical component.

At the completion of the program, a student should be able to:

- Demonstrate understanding of social determinants of health, health equity, social justice, and governmental policy in terms of their impact on the distribution of health services and health outcomes in low-resource settings within the United States and internationally
- Analyze the challenges facing the health and human rights issues specific to immigrant, migrant, internally displaced, and refugee populations
- Understand specific needs of vulnerable populations including the medically underserved and uninsured
- Demonstrate knowledge of effective advocacy strategies for health systems improvement within the global context
- Demonstrate the ability to communicate effectively and collaborate with the patient, family, and caregivers with sensitivity to sociocultural and health literacy issues so that the diagnosis and plan of care are clearly understood and pertinent to their specific situation
- Understand the epidemiology of global communicable and non-communicable diseases
- Identify and adapt evidence-based resources and tools for use in limited-resource health care settings
- Interact in a cross-cultural manner sufficient to deliver basic medical care, including working with translators
- Perform an efficient comprehensive physical examination when practicing supervised in an internationally located office, hospital, or skilled nursing setting, being mindful of cultural factors, including gender, modesty, and religious practices
- Use clinical skills to appropriately diagnose and treat patients under supervision in the context of local resource availability
- Select, perform, and interpret under supervision diagnostic procedures within the context of limited resource health care settings
- Formulate a plan of care that is relevant and practical in a specific cultural setting
- Demonstrate understanding of resources and issues pertinent to travel medicine, health risk prevention, health maintenance, and variations in health care services that are specific to international travel

- Discuss treatment plans based on knowledge of global influences, utilizing resources that include local, state, federal, and international agencies, as applicable
- Recognize his or her own practice limitations and seek consultation with other health care professionals and systems resources to provide optimal care within a global context
- Understand the organization, financing and systems health indicators of international health care systems.

The student should develop attitudes that encompass:

- Commitment to lifelong learning and contribution to the body of knowledge about global health
- Recognition of his or her own biases and stereotypes related to health care delivery in local and international settings
- The need to balance compassion, humanism, realism, and practicality in the consideration of health care delivered in specific global settings
- Respect for dignity and autonomy through self-care and self-determination within a cultural and global context
- A desire to advocate for systems change to improve the health of the community in which he or she practices

Upon completion of the Global Health Track, completion of requirements of the Graduate Clinical Core Rotation Certificate Program and all requirements for graduation from AUA (including but not limited to passing all in-house and external exams and passing all required courses and clerkships) the student will receive the MD degree and the Global Health Certificate from AUA as well as the Certificate of Completion of the Graduate Clinical Core Rotation Certificate Program from FIU.

## PRECLINICAL SCIENCES

### Readings for Classes:

#### What the Library Provides

Any reading required for a particular class will be available via Blackboard, AUA's online course management system. Just as links to lectures, videos, and PowerPoint presentations are linked in Blackboard, links to readings will also be provided. The AUA Library will also have print copies of each of the required and recommended books put on reserve. In addition, hundreds of other e-books, e-journals, and medical knowledge-bases are now available to AUA students both on campus, and off campus via their AUA NetID.

#### Personal Copies of Textbooks

Students wishing to purchase personal print copies of textbooks or personal e-books are welcome to do so. As textbooks required for a given course are subject to change each term, students should the contact systems coordinators for each course before making a purchase.

For more information, contact Vijaya Kumar, Director of Library Services, at [vkumar@auamed.net](mailto:vkumar@auamed.net).

### YEAR ONE - SEMESTER ONE

#### PRE-CLINICAL SCIENCE I

*Credit Hours: 19 | Course No: 5116*

#### FOUNDATIONS I – SPRING 2023

The Foundations I module will lay the groundwork for the medical sciences, in general and for all the organ systems that follow. It will take the approach of first introducing the pillars of Medical Ethics and of effective communication. Cultural awareness will be developed while Public Health will explore human interactions with the environment. Introductory aspects of Anatomy and Radiology will also be covered. The module then continues from the basics of molecules up to the system level.

The Foundations of preclinical sciences module will then dive into the story of cells, including the structure and function of organelles. It will later develop into tissues and include themes such as the development of an embryo, connective tissue, and epithelia. Weaved into this approach will be fundamental aspects of disciplines such as Cell and Molecular Biology, Genetics, Biochemistry, Anatomy, Physiology, Embryology, Histology, and Neuroscience.

The module material will be presented as a combination of interactive live lectures, tutorials, flipped classrooms, and active small group discussions guided by facilitators. The learning materials (class notes, PowerPoints, videos, etc.) will be posted on Blackboard in advance of the dates indicated in the syllabus to facilitate students' advanced preparation for in-class activities and exams. Students will be assigned to Homerooms to participate in small group activities.

We look forward to a stimulating five weeks of discussions with you on the Foundations of preclinical sciences.

## MUSCULOSKELETAL SYSTEM / SKIN I – SPRING 2023

The Musculoskeletal system will be the first system you study in this organ system-based curriculum. In this module you will learn the basic science principles of the muscular, skeletal and integumentary systems. The module spans three weeks and covers the following: upper limb, lower limb, and head, neck and back. Focus will be on anatomy, embryology, histology, neuroscience, physiology, and radiology disciplines, with clinical correlations as appropriate. In this module, students will gain knowledge of the locomotor system which affords support, stability and movement to the human body and the application of this knowledge.

The overarching goals of this System are to: (1) Study the general structure and function of bones, joints and muscles, and their blood and nerve supply, and to introduce their relevance to clinical problems. (2) Study the structure and function of the upper limb, lower limb, head, neck, and the vertebral column, including surface anatomy, neurovascular supply and coordination for movement. In addition, you will gain knowledge related to skin structure and function. (3) Provide the basis for the study of common clinical conditions and for clinical examination related to the above regions to be done in the second year.

The course material will be presented to students mainly as a combination of live lectures and active small group discussions. The learning materials (textbook readings, class notes, videos, etc.) will be posted on the learning management system in advance of the dates indicated in the syllabus, so as to help you prepare in advance for in-class activities and exams. In addition, you will have the chance to discuss questions during weekly, interactive review sessions.

## GASTROINTESTINAL SYSTEM I - SPRING 2023

Welcome to the study of the gastrointestinal tract. Over the next 4-and-a-half weeks you will explore what happens to food when it enters the body; the course it takes, and how it is converted to energy and into building blocks for the body that are essential for growth and daily functioning. You will also gain greater appreciation of what happens to the unutilized remainder of the food that is removed from the body. In other words, you will study the journey of what you consume *from the plate to the potty!*

You will learn how the gastrointestinal tract is formed at the embryonic stages and the significance of embryonic development from a clinical perspective. You will review what happens in the oral cavity and why its structure is suited for its function of preparing the food for digestion while you savor each bite. The structure of the anterior abdominal wall will also be reviewed. There is far more to learn than the six-pack: the anterior abdominal wall is the book-cover for the clinician for several gastrointestinal ailments. Understanding its structure is essential.

Most of the process of digestion beyond swallowing occurs without us thinking about it. You will learn the special characteristics of the esophagus and stomach. You will study their innervation to effect motility and the neuro-hormonal signals used orchestrate the transfer of food from the mouth to the stomach and breakdown of food into simpler absorbable units. Additionally, there will be significant focus on various biochemical pathways and how their substrates and products are relevant in this system.

You will gain further appreciation of how the gut wall changes structure to suit function: from food transport to breakdown to absorption. You will study how the liver, gallbladder and pancreas contribute to the digestive process and how food turns into energy or is stored for later use. You will also delve into how your body regulates energy availability during times of fasting and starvation. Last but by no means least, you will study how you store and release the waste products of digestion in a controlled and socially acceptable manner. Be mindful that throughout the GI tract problems may arise that will lead to disease. There are common trouble spots. Become very familiar with the normal process of digestion so that you will appreciate diseases and their causes next year.

The course material will be presented as interactive lectures and active small group discussions guided by facilitators. Learning material (Class notes/PowerPoints/Videos, etc.) will be posted on the learning management system before lectures and small group activities so as to facilitate students' preparation for the sessions.

## NEUROSCIENCE & BEHAVIORAL SCIENCES I - SPRING 2023

Neuroscience & Behavioral Science I spans 4 weeks and has two major themes. The first is an introduction to Neuroscience, including both Neuroanatomy and Neurophysiology. The module will address embryonic development of the central and peripheral nervous systems. Specific emphasis will be given to the central nervous system (CNS), including the cranial and spinal nerves, the structure and function of the CNS, and the neurophysiology of sleep and hearing.

The second theme is an introduction to Behavioral Science. This includes discussion of developmental changes in and over the lifespan, classical and operant conditioning, stages of grief, and defense mechanisms.

All of this is designed to serve as a foundation for Neuroscience & Behavioral Science II taught in the second year at AUA. The focus for that system will be neuropathology and psychopathology.

The Behavioral Science and Neuroscience reading assignments and other learning materials will be available on the learning management system prior to each activity.

## YEAR ONE - SEMESTER TWO

### PRE-CLINICAL SCIENCE II

*Credit Hours: 19 | Course No: 5216*

## CARDIOVASCULAR SYSTEM I – SPRING 2023

The Cardiovascular System I is a 4-and-a-half-week module that explores the structural and functional aspects of the human cardiovascular system through cooperative learning activities supported by interactive lectures and textbook readings. The small group learning activities are highlighted by case-based problem-solving exercises. These exercises are based on the key components of the system—the heart is the source of energy for blood flow and delivery of nutrients to the body. The blood, lymph and blood vessels, which comprise the systemic circulation, are considered both as macro-circulation and as micro-circulation. Interactions between the cardiovascular and gastrointestinal systems are considered to understand how nutrients are delivered to each of the human body's estimated 37.2 trillion cells, including those of the heart itself. Interactions between the cardiovascular and nervous systems explain the tight coupling between blood flow and neural signaling which includes regulating all of a human's thoughts, emotions and behaviors. How the cardiovascular system adjusts to the stresses of physical exercise and heart failure provides a comprehensive review of the facts, concepts and interactions to demonstrate mastery of the normal cardiovascular system.

Diligent study and immersion in all of the Cardiovascular System block's learning activities are sure to build confidence and readiness to apply knowledge of its normal processes to the differential diagnosis of the system's diseases. The learning materials (Class notes/PowerPoints/Videos, etc.) will be posted in the learning management system to facilitate advanced preparation for in-class activities and exams.



## RESPIRATORY SYSTEM I – SPRING 2023

The Respiratory system 3-week module in year one will focus mainly on the basics of structure and function along with the biomedical significance of hemoglobin. The main function of the respiratory system is to obtain oxygen from the external environment and supply it to cells, and to remove carbon dioxide from these cells. In this module, students will start learning about respiratory gross anatomy from the nose to the upper airways, lower airways, pleura, lungs, thoracic wall, and muscles of respiration along with their development, their histology, and their visualization by radiology. The functions of this system include alveolar ventilation, mechanics of respiration, gas diffusion and transport, lung perfusion, combined ventilation and perfusion, acid-base balance, non-respiratory functions of the lung, and control of breathing. This system also deals with changes in respiration during physiologic stress and special circumstances such as at high altitudes, while diving, and during sleep.

The learning materials will be presented mainly through interactive lectures, required readings, and active small group discussions guided by facilitators. Learning materials (class notes/ PowerPoints/ videos etc.) will be posted in the learning management system before each lecture and small group activity so as to facilitate students' advanced preparation for the sessions.

## RENAL SYSTEM I – SPRING 2023

The Renal System I in year one provides our students with an understanding of the basic structure and function of the kidneys, as well as biochemical significance of tubular processes and dynamics. The key functions of the Renal System are to make and store urine, excrete metabolic waste products, and maintain blood pressure. In addition, the kidneys play an important endocrine role in the homeostasis of calcium and phosphates, as well as the release of erythropoietin for red blood cell formation. The first part of Renal System I comprises a 2-week block that will start with Anatomy of the urinary system, followed by the Embryology and Histology of both the upper and lower urinary systems. We will then look into the physiology of the renal system extensively. Radiology is an integral part of our system providing students with anatomical appreciation of the renal system and views of some of the pathologies that can be easily diagnosed with imaging.

The second part of the Renal System I comprises an Epidemiology and Biostatistics I mini-module lasting 2 weeks. This mini-module uses frameworks that extend beyond the Renal system and consists of a series of lectures, question-based practice sessions, and small group activities. Lectures start with an introduction to Epidemiology and include quantification of disease in populations, global burden of disease, and measurement of the effect of risk factors in disease. Students will learn to differentiate epidemics according to the point of contact and how to proceed in an outbreak situation. The introduction to biostatics will include a description of population distributions of biomarkers commonly seen in medicine. Students will learn how to calculate the probability of disease events as well as how to perform a decision tree analysis in clinical situations.

Learning material will be presented using various approaches, including live lectures, readings, and small group activities. These materials (class notes, slides, videos, etc.) will be posted in the learning management system before the small group activities to prepare students for the sessions.

## ENDOCRINE / REPRODUCTIVE SYSTEM I – SPRING 2023

This final, 4-week module of Curriculum Next's year one pulls together strands of the biomedical, social, and clinical sciences previously learned in other body systems. While there is an emphasis on structure, function, and cellular mechanisms in the endocrine and reproductive systems, the curriculum also integrates related clinical, cultural, and behavioral aspects associated with various physiological processes. Health and its promotion, including public health and prevention of disease, are key aspects of clinical medicine. The faculty also address how cultural differences affect people's

views of sex, birth control, pregnancy, infant care and feeding, and even what to eat and how to behave for the best health outcomes.

Our plan is to prepare students to approach the Endocrine and Reproductive systems through integrated learning modalities consisting of reading tasks, lectures, practice questions, discussion forums, and live reviews. Learning materials (class notes, PowerPoints, videos, etc.) will be posted in the learning management system before each lecture or small group activity to facilitate students' advanced preparation for the sessions. By the end of the four weeks, students will be able to apply their medical knowledge to integrate the Endocrine and Reproductive systems with the other systems already covered in the first year of the preclinical curriculum.

## YEAR TWO - SEMESTER THREE

### PRE-CLINICAL SCIENCE III

*Credit Hours: 19 | Course No: 6326*

#### FOUNDATIONS II- SPRING 2023

The 5-week Foundations-II module in year 2 outlines the fundamental principles of disease processes. The underlying theme is “Mechanisms of defense, disease and therapeutics.” The first segment introduces the mechanisms of defense and biology of tissue response to disease wherein you will learn the basic structure, production, principles and function of the normal immune response with a parallel introduction to mechanisms of cell injury, inflammation and repair. Interwoven with these concepts, will be the fundamentals of therapeutics namely, pharmacokinetics and pharmacodynamics.

The second segment outlines the mechanisms of abnormal immune response and environmental pathobiology. Here, you will apply the fundamental immunologic principles to abnormalities of the immune processes and immunopharmacology. The focus then shifts to the environmental pathobiology component wherein we will cover pathobiology of genetic disorders associated with developmental and functional abnormalities, environmental mechanisms of injury, and detailed reasoning of phenotype and genotype with population genetics and its applications.

The final segment deals with impaired defenses, introduction to microbes and microbial pathogenesis. This segment introduces the basic biology of pathogenic bacteria, viruses, fungi, and parasites, and how it relates to microbial pathogenesis, together with principles of antimicrobial therapy.

Thus, Foundations II lays down a solid framework for an understanding of disease processes and management through recapitulation of the knowledge gained about normal processes in Year 1 and integration with the disciplines of Immunology, Microbiology, Genetics, Pathology, and Pharmacology. The module material will be presented as interactive lectures and active small group discussions guided by facilitators. Learning materials (class notes, PowerPoints, videos, etc.) will be posted in the learning management system before each lecture and small group activity to facilitate students' advanced preparation for the sessions.

#### HEMATOLYMPHOID SYSTEM II- SPRING 2023

The underlying themes of the 2-week Hematolymphoid System are blood and the reticuloendothelial system – the network of life. This system builds on the groundwork that has been laid (in previous periods) on hematopoiesis and coagulation. It also introduces foundational principles of neoplasia and anti-cancer drugs. It will include a study of red blood cell disorders with a focus on anemias followed by the study of platelet and bleeding disorders. This is integrated with therapeutic approaches to anemias and the role of hematinic and hematopoietic growth factors. The emphasis then shifts to non-neoplastic and neoplastic disorders involving white blood cells followed by disorders of the thymus and spleen. The last segment in this block is devoted to the study of infections of the hematopoietic system.

Thus, this system integrates the disciplines of Pathology, Pharmacology and Microbiology building on the foundational knowledge acquired in the disciplines of Physiology, Histology and Immunology. The module material will be presented as interactive lectures and active small group discussions guided by facilitators. Learning materials (class notes, PowerPoints, videos, etc.) will be posted in the learning management system before each lecture and small group activity to facilitate students' advanced preparation for the sessions.

#### MUSCULOSKELETAL SYSTEM / SKIN II- SPRING 2023

In this 3-week module, students will gain knowledge of the abnormal processes and diseases that can affect the normal functioning of the muscles, bones, joints and integumentary system. Focus will be on pathology, microbiology, immunology and therapeutics with clinical correlations and application of knowledge.

As you progress through this module, you will build on normal principles learned in the MSK I module in your first year of preclinical sciences and obtain an understanding of the disease processes that affect this organ system. Students will also continue to learn the skills of interviewing and examining patients with illnesses affecting this organ system.

The module material will be presented mainly as interactive lectures and active small group discussions guided by facilitators. Learning materials (reading assignments, class notes, PowerPoints, videos, etc.) will be posted in the learning management system before each session to facilitate students' advanced preparation.

#### NEUROSCIENCE & BEHAVIORAL SCIENCE II- SPRING 2023

The Neuroscience and Behavioral Sciences system in year 2 spans 4 weeks. The neuroscience module will address disorders of the central nervous system (CNS) and peripheral nervous system resulting from abnormal development, genetic mutations, vascular, immune, infectious and intrinsic disease, and their treatment. Special emphasis will be given to raised intracranial pressure, developmental disorders, traumatic brain injury, vascular disorders, demyelinating disorders, neurodegenerative disorders, brain tumors, peripheral nerve disorders, non-neoplastic and neoplastic conditions of the eye, seizures, infectious diseases of the CNS, drugs used in anesthesia, and miscellaneous topics, such as headache, cholesteatoma, vestibular disorders, and marine nerve toxins.

The Behavioral science module includes discussion of the neurodevelopmental disorders, mood disorders, anxiety disorders, psychotic disorders, obsessive compulsive and related disorders, trauma and stress, somatic and dissociative disorders, feeding and eating disorders, disruptive, impulse control and conduct disorders, sleep and anxiety disorders, personality disorders, substance abuse disorders, and sexual dysfunctions. Psychopharmacology, including drugs for mood disorders, antipsychotic drugs, opioid analgesics, effects of alcohol on the CNS, and sedative-hypnotics will also be covered.

The neuroscience and behavioral science system materials will be presented in both large and small group formats. All reading assignments, and other learning materials will be available prior to each activity.

#### GASTROINTESTINAL SYSTEM II- SPRING 2023

This 4-week module aims to give students a broad overview of gastrointestinal diseases, diagnostic studies and therapeutic options along with detailed information about selected disorders (selected from USMLE content outline).

Diseases involving the gastrointestinal tract (GIT), including diseases of the oral cavity, salivary glands, esophagus, stomach, intestines, liver, gallbladder, and exocrine pancreas will be covered. Some diseases involve multiple organs along with the GIT and some are unique to GIT.

The flow of the presentation of topics in this system guides students to apply knowledge of the structure and function of the salivary glands, esophagus, stomach, intestines hepatobiliary system and exocrine pancreas to understand the clinico-pathologic features associated with their disorders and treatment. The topics will be delivered mainly through live lectures, small group activities, clinical medicine laboratory, imaging activities, and self-directed learning methods. By the end of the module, students should be able to:

1. Demonstrate an ability to develop a differential diagnosis and recognize disorders of the oral cavity, salivary glands, esophagus, stomach, intestines, liver, gallbladder, and pancreas.
2. Demonstrate an understanding of the principles of therapy, including the mechanisms of action, relevant pharmacokinetics, therapeutic indications, and adverse effects for the treatment of GI disorders.

Learning materials (class notes, PowerPoints, videos, etc.) will be posted in the learning management system before each session to facilitate students' advanced preparation.

## YEAR TWO - SEMESTER FOUR

### PRE-CLINICAL SCIENCE IV

*Credit Hours: 19 | Course No: 6426*

## CARDIOVASCULAR SYSTEM II – SPRING 2023

This 4-week module is designed as an integrated introduction to the diseases of the cardiovascular system. It has been collaboratively developed by faculty to help students form a strong base of medical knowledge in cardiovascular pathophysiology, pathology, microbiology, and pharmacology. Building on this foundation, it is our goal for each student to begin to develop the analytical and cognitive skills necessary for a successful transition from basic cardiovascular physiology to the care of patients with heart disease. We expect each student will acquire a solid comprehension of basic principles and, most importantly, a practical understanding of how to approach a patient with known or suspected cardiac disease.

Didactic lectures will be integrated to include cardiovascular pathology, pathophysiology, microbiology, and pharmacology. The lectures have been developed to build on material from the assigned readings. The required textbook readings will provide the student with theoretical and practical concepts to complement, but not replace, material presented in lectures. Students are expected to read the relevant physiology from the assigned texts that will broaden each individual's understanding of cardiovascular disease, provide perspective, and reinforce vital clinicopathologic concepts not necessarily provided in written format.

Clinicopathological exercises are active learning opportunities designed to challenge students to apply knowledge from textbook readings and lecture in the analysis of authentic clinical scenarios for which there are multiple possible diagnoses. Students will work individually or with colleagues to formulate a pathophysiological explanation for presenting symptoms and signs, interpret electrocardiograms, develop a differential diagnosis, and make a plan for further diagnostic evaluation and/or management.

## RESPIRATORY SYSTEM II – SPRING 2023

This 4-week module is designed to give students an overview of upper and lower respiratory tract disorders. The module provides an overview of the abnormal processes and diseases that can affect the structure and function of the respiratory

passage. This goal will be achieved by close integration of Pathology, Microbiology, Immunology, Pharmacology, and imaging modalities.

This module has been divided into learning objectives for obstructive lung diseases, restrictive lung diseases, vascular diseases, pulmonary infections, lung neoplasia, and miscellaneous topics. The teaching and learning materials will be delivered mainly in the form of live lectures, PowerPoints, reading assignments from reference textbooks, and active small group discussions guided by facilitators. Learning materials (class notes, PowerPoints, videos, etc.) will be posted in the learning management system before lectures and small group activities to facilitate students' advanced preparation for the sessions. By the end of this module students will be able to apply their knowledge to clinical contexts of respiratory system diseases.

#### RENAL SYSTEM II – SPRING 2023

The Renal System II is a collaborative effort of the Preclinical Sciences faculty to help students understand the clinical aspects of diseases that affect the kidneys and the urinary system. During this 2-week module, students will build a strong foundation of medical knowledge in renal pathophysiology, pathology, microbiology, and pharmacology. The Renal System year one foundation was the building block for our approach in the second year. Building on this foundation, it is our goal for each student to continue to develop the cognitive and analytical skills necessary for a successful transition from basic renal system sciences to the care of patients with renal disease.

The plan to prepare the student to manage the renal system will be implemented through an integrated learning modality that includes reading assignments, live lectures, small group activities, a live case, and other large group active learning opportunities. At the end of the 2 weeks, students will be able to integrate and apply medical knowledge of the renal system with that of the cardiovascular, endocrine, and central nervous systems.

#### ENDOCRINE / REPRODUCTIVE SYSTEM II – SPRING 2023

The Endocrine/Reproductive System II 4-week module provides an exploration of the abnormal processes and diseases that can affect the function and structure of the endocrine and reproductive systems and their management. This goal will be achieved by close integration of knowledge of Pathology, Pharmacology, Microbiology, Imaging, and Behavioral Sciences. Students will review the principles of hormone secretion, signaling, and hormonal regulation of reproduction and learn about disorders of fertility. They will also learn about disorders of the pituitary, thyroid, parathyroid and adrenal glands, and pancreas as well as understand the pathophysiology of the various aspects of diabetes mellitus and their management, plus adverse effects of drugs on the endocrine system. The teaching and learning materials will be delivered in the form of live lectures, small group activities, interactive case-based discussions, pre-recorded lectures, PowerPoints, and reading assignments from reference textbooks.

By the end of this module, students will be able to apply their knowledge to clinical contexts. The learning objectives for the module are derived from national guidelines and the United States Medical Licensing Examination Content Outline, and have been reviewed and updated. They correlate well with both the assigned readings and examination items. The learning objectives are designed to define and focus on the basic knowledge of this system that we believe is necessary to become an outstanding physician as well as to pass the national US Medical Licensing Examination.

#### INTEGRATED BASIC SCIENCE & CLINICAL REVIEW MODULE – SPRING 2023

The 1-week Integrated Basic Science and Clinical Review (IBSCR) follows the Endocrine/Reproductive System II. It is designed to engage students to integrate all systems completed in year 1 and year 2 in preparation for the Comprehensive Basic Science Examination and the USMLE STEP 1. Students will be reminded of some relevant concepts through

interactive review lectures. With the help of clinical cases and vignettes, integration skills will be fostered through several active learning opportunities facilitated by experts from multiple disciplines.

### BASIC SCIENCE INTEGRATION COURSE [BSIC INTERSESSION]

*Themes:* Anatomy, Behavioral Science, Epidemiology, Biostatistics, Biochemistry and Genetics, Microbiology, Immunology, Physiology, Pathology, Pharmacology, and Integrated Clinical cases

*Credit Hours:* 10 | *Course No:* 6855

*Course Directors:* Dr. Arun Kumar Agnihotri and Dr. Fidelis Nwachukwu

The Basic Science Integration Course (BSIC) is an integrated intersession course essentially designed to reinforce, with Q & A sessions, relevant material and concepts from the Preclinical Sciences disciplines. It is also designed to enhance integration of knowledge acquired in the Preclinical Sciences and help in the application of this knowledge to clinical scenarios. The 13-week BSIC is conducted during the intersession following the end of Year Two. After 13 weeks, the students will take the mandatory National Board of Medical Examiners (NBME) Comprehensive Basic Science Examination (CBSE).

## CLINICAL SCIENCES

### OVERVIEW

During the clinical education in semesters V through VIII, students continue to develop clinical and communication skills in all areas of patient care under the direction of AUA's medical faculty at teaching hospitals in patient-centered environments.

The clinical education consists of 84 weeks of core and elective rotations.

The **FM1/IM1** -Advanced Introduction to Clinical Medicine: The first clinical rotation focuses on enhancing the skills required to perform physical examinations and to interact with patients, family, and health care providers in a U.S. medical environment. The duration is 8 weeks.

The 44 weeks of **CLINICAL CORE ROTATIONS** (Internal Medicine – 12 weeks; Surgery – 8 weeks; Family Medicine – 6 weeks; OB/GYN – 6 weeks; Pediatrics – 6 weeks; Psychiatry – 6 weeks) include in-hospital patient care (that might be combined with outpatient office experience where permitted by state law), creating a learning environment in which clinical competence can be achieved.

In addition, students have the opportunity to enhance their medical knowledge and strengthen their clinical skills during the 32 weeks of **CLINICAL ELECTIVE ROTATIONS** in subspecialties of the core subjects, other medical specialties, and research. In general, the duration of an elective rotation is four weeks.

The clinical rotations are integrated educational experiences that allow students to develop the knowledge, skills, attitudes, and professionalism essential to caring for patients effectively, efficiently, and humanely. The faculty's goal is to facilitate learning, stimulate curiosity, promote independent thinking, encourage compassion, inspire excellent care, and equip students with the tools for a lifetime of learning. The acquisition of clinical knowledge and skills during the clinical clerkship is achieved through direct interaction with clinical faculty, patients (in-person and via telemedicine formats), standardized patients, and simulation, and is supplemented by clinical core subject-specific clinical content (e.g., virtual patients) provided via the university's Blackboard e-learning platform as well as reading assignments.

### FAMILY / INTERNAL MEDICINE (FM1 / IM1) - 8 WEEKS

Advanced Introduction to Clinical Medicine (FM1/IM1): The first clinical rotation focuses on enhancing the skills required to perform physical examinations and to interact with patients, family, and health care providers in a U.S. medical environment.

### CLINICAL CORE ROTATIONS

#### INTERNAL MEDICINE – 12 WEEKS

Students gain general knowledge of internal medicine, including health promotion, disease prevention, and diagnosis and treatment of men and women from adolescence through old age, in times of health through all stages of acute and chronic illness. Additionally, students develop skills in problem-solving and decision-making, and an attitude of caring driven by humanistic and professional values. This rotation incorporates a consideration of human biology and behavior, and an

understanding of the epidemiology and pathophysiology of disease and treatment modalities. Students master clinical skills in interviewing, physical examination, differential diagnosis, diagnostic testing strategies, therapeutic techniques, counseling, and disease prevention.

*Recommended Reading:*

Medical Students can sign up for American College of Physicians membership free of charge.

1. American College of Physicians and the Clerkship Directors in Internal Medicine: Internal Medicine Essentials for Students: A Companion to MKSAP® for Students, edited by Patrick C. Alguire, 3<sup>rd</sup> Ed. American College of Physicians, 2011. [978-1-9344-6543-1] \$54.95
2. Joseph Loscalzo, Dennis Kasper, Stephen Hauser, Anthony Fauci, Dan Longo & and J. Jameson: Harrison's Principles of Internal Medicine (2 Volumes), 19<sup>th</sup> Ed. McGraw-Hill, 2015. [978-0-0718-0215-4] \$249.00
3. Hemant Godara: The Washington Manual of Medical Therapeutics, 34<sup>th</sup> Ed. Lippincott Williams & Wilkins, 2013. [978-1-4511-8851-6] \$74.99

### S U R G E R Y – 8 W E E K S

Students will gain an appreciation for the specific role of surgeons in the spectrum of medical care. This clerkship introduces the principles of surgery and the rationale for surgical therapeutic intervention through many different educational modalities. Students should have exposure to the breadth and depth of surgery under the guidance of a preceptor, and function as a contributing member of the surgical team. Students should demonstrate an understanding of surgical procedures and the elements required to establish surgical diagnoses. Preoperative evaluation, perioperative care, and postoperative follow-up – with documented progress in each component of care – are emphasized. Relevant information should be described in the brief postoperative note. There should be evidence of understanding the legal aspects of the medical record. The Surgery Clerkship will foster student growth in areas of patient care, medical knowledge, interpersonal and communication skills, practice-based learning and improvement, professionalism, and systems-based practice.

*Recommended Reading:*

1. Cornelius Dyke & Eric J. DeMaria: Surgical Attending Rounds, 3<sup>rd</sup> Ed. Lippincott Williams & Wilkins, 2004. [978-0-781-75046-2] \$68.99
2. Alden H. Harken: Abernathy's Surgical Secrets, 6<sup>th</sup> Ed. Mosby, 2009. [978-0-323-05711-0] \$44.95
3. Mary E. Klingensmith & Abdulhameed Aziz: The Washington Manual of Surgery, 6<sup>th</sup> Ed. Lippincott Williams & Wilkins, 2011. [978-1-4511-1594-9] \$68.99
4. F. Brunicaardi, et al: Schwartz Principles of Surgery, 10<sup>th</sup> Ed. McGraw-Hill, 2015. [978-0-0717-9675-0] \$199.00

### F A M I L Y M E D I C I N E – 6 W E E K S

The clerkship in family medicine will introduce students to the aspects of family medicine that are applicable to all fields of medical practice, including the comprehensive and continuous care provided by family physicians to patients of all ages. The clerkship will enhance the students' ability to recognize the importance of family systems and the impact of chronic illness on patients and their families. The health of individual family members, cultural issues, family systems, and their cumulative effect on health outcomes will be highlighted. Students will become familiar with end-of-life issues and palliative care and the role of the physician in these decision-making processes. The clerkship will emphasize the importance of recognizing symptoms and acquiring medical knowledge in providing patients with the highest-quality medical care. The family medicine clerkship will promote the highest standards of professional behavior and clinical competence while preparing students for the practice of family medicine to diverse patient populations. The clerkship will enhance students' knowledge and awareness of the common diagnoses and the impact of cultural issues and family systems upon the patient.



*Recommended Reading:*

1. Robert E. Rakel & David Rakel: Textbook of Family Medicine, 9<sup>th</sup> Ed. Elsevier, 2015. [978-0-323-23990-5] \$169.99
2. Martin S. Lipsky & Mitchell S. King: Blueprints Family Medicine. Lippincott Williams & Wilkins, 2010. [978-1-6083-1087-6] \$45.99
3. Alfred F. Tallia, Joseph E. Scherger & Nancy Dickey: Swanson's Family Medicine Review, 7<sup>th</sup> Ed. Elsevier, 2013. [978-1-4557-0790-4] \$89.95

*All students in the Family Medicine clinical rotation must complete all FM cases during their clinical rotation. FM cases have proven to be an invaluable teaching tool for clinical training and especially for NBME (shelf) exams. Please complete all FM cases in their entirety.*

OBSTETRICS AND GYNECOLOGY – 6 WEEKS

During this rotation, students will acquire a set of basic educational and technical skills related to the maintenance of women's health. They will learn to take an obstetrical and gynecological history and physical examination, with emphasis on the breasts, abdomen, and pelvis. Students will develop a basic understanding of the pathophysiology in women as they occur, from menarche through the reproductive years and menopause. This will include an appreciation of specific obstetric and gynecologic issues encountered at different stages of a woman's life. Inpatient obstetrical and gynecological admissions and surgical procedures, as well as ambulatory outpatient clinic or private practice experience provide the necessary core fundamentals of the clerkship. Students are required to master their understanding of the physiology of endocrinology during pregnancy, renal function and basic anatomy.

*Recommended Reading:*

1. Tamara Callahan & Aaron Caughey: Blueprints Obstetrics and Gynecology (Blueprints Series), 6<sup>th</sup> Ed. Lippincott Williams & Wilkins, 2013. [978-1-4511-1702-8] \$46.99
2. Matthew Kaufman, Latha Ganti, Jeane Holmes & Priti Schachel: First Aid for the Obstetrics and Gynecology Clerkship, 3<sup>rd</sup> Ed. McGraw-Hill, 2010. [978-0-0716-3419-9] \$49.00
3. Charles R. B. Beckmann, William Herbert, Douglas Laube, Frank Ling & Roger Smith: OBGYN, 7<sup>th</sup> Ed. Lippincott Williams & Wilkins, 2013. [978-1-4511-4431-4] \$72.99
4. Neville F. Hacker, Joseph C. Gambone & Calvin J. Hobel: Hacker & Moore's Essentials of Obstetrics and Gynecology, 5<sup>th</sup> Ed. Elsevier, 2010. [978-1-4160-5940-0] \$67.95
5. APGO-Uwise - 7 units, 250 comprehensive questions. [<https://www.apgo.org/student/uwise2.html>]
6. USMLE World Qbank- Obstetrics & Gynecology - 205 Questions. [<http://www.kaptest.com/Medical-Licensing/Step1/s1-qbank.html?gclid=COLGiNHSxcACFQwV7AodAUgAwg>]

PEDIATRICS – 6 WEEKS

This clerkship provides students with the basic skills and knowledge required to care for children and their families. The focus of the pediatric clerkship is to teach students about issues unique to the infant, child, and adolescent. There is a major emphasis on disease prevention, treatment, and the impact of disease and treatment on the child. During the six weeks, the students develop the communication, physical examination, and problem-solving skills required to evaluate the health status of a pediatric patient from birth to 18 years of age. Review of all relevant basic sciences including genetics, embryology, biomedical sciences, complications during pregnancy, and physiology is expected.

*Recommended Reading*

1. Robert M. Kliegman, Bonita Stanton, Joseph St. Geme & Nina F Schor: Nelson Textbook of Pediatrics (2 Volumes), 20<sup>th</sup> Ed. Elsevier, 2016. [978-1-4557-7566-8] \$169.99
2. Michael South & David Isaacs: Practical Paediatrics, 7<sup>th</sup> Ed. Elsevier, 2012. [978-0-7020-4292-8] \$95.95
3. Daniel Bernstein & Steven P. Shelov: Pediatrics for Medical Students, 3<sup>rd</sup> Ed. Lippincott Williams & Wilkins, 2011. [978-0-7817-7030-9] \$65.99
4. Sheela Lahoti, Eugene Toy, Robert Yetman, et al.: Case Files Pediatrics, 4<sup>th</sup> Ed. McGraw-Hill, 2012. [978-0-0717-6973-0] \$34.00
5. Bradley S. Marino & Katie S. Fine: Blueprints Pediatrics, 6<sup>th</sup> Ed. Lippincott Williams & Wilkins, 2013. [978-1-4511-1604-5] \$46.99
6. Baby OSCE.

### PSYCHIATRY – 6 WEEKS

The objective of the psychiatric rotation is to prepare the student to recognize, assess, and treat a wide range of mental health problems that may present during an individual's lifetime. Emphasis is placed on assessment of the patient's mental status and personality traits as they relate to the patient's health practices, and on legal issues such as mental competency, dangerousness, and civil commitment and their relevance to clinical management of other medical conditions. The student should be able to use the interview situation to obtain an in-depth history, perform a comprehensive mental status examination, and establish a positive professional doctor–patient relationship. This knowledge should be the basis of the student's ability to make a comprehensive diagnosis of common psychiatric conditions. The student is required to review and understand all aspects of neurophysiology, neuroanatomy, neuropharmacology, and behavioral sciences. The student should also acquire knowledge of the various therapeutic modalities, including pharmacological, psychotherapeutic and social interventions, and be aware of their indications and limitations. By becoming more skilled in assessing the personal strengths and vulnerabilities of a patient's mental state, the student should become more competent in interviewing in all medical settings.

#### *Recommended Reading:*

1. Myrl R. S. Manley: Psychiatry Clerkship Guide, 2<sup>nd</sup> Ed. Elsevier [Mosby], 2007. [978-1-4160-3132-1] \$54.95
2. Benjamin J. Sadock & Virginia A. Sadock: Kaplan and Sadock's Concise Textbook of Clinical Psychiatry. Lippincott Williams & Wilkins, 2008. [978-0-7817-8746-8] \$84.99
3. American Psychiatric Association: Diagnostic and Statistical Manual of Mental Disorders, 4<sup>th</sup> Ed., Text Revision (DSM-IV-TR). American Psychiatric Association, 2000. [978-0-8904-2025-6]
4. American Psychiatric Association: Diagnostic and Statistical Manual of Mental Disorders, 5<sup>th</sup> Ed. American Psychiatric Association, 2013. [978-0-89042-554-1] \$199.00
5. Laura Weiss Roberts & Alan K. Louie: Study Guide to DSM-5. American Psychiatric Association, 2014. [978-1-5856-2464-5] \$70.00
6. Michael R. Privitera & Jeffrey M. Lyness: Psychiatry Mentor: Your Clerkship & Shelf Exam Companion. F. A. Davis, 2009. [978-0-8036-1692-9] \$46.95

#### *Study Guides*

Most students use one of the examination study guides such as Pretest, First Aid, or Case Files. Students should be aware that the sample questions in these books are easier than the Shelf Examination questions. However, these books do ensure that students thoroughly review popular examination question topics.

#### *Psychiatric Memoirs*

1. Kay Redfield Jamison: An Unquiet Mind [Autobiography], Vintage Books, 1995. [978-0-6794-4374-2]

## CLINICAL ELECTIVE ROTATIONS – 4 WEEKS PER ROTATION

### ADDICTION MEDICINE / CHEMICAL DEPENDENCY

The incidence of substance abuse and substance dependency is increasing throughout the country. These are commonly seen in patients receiving inpatient medical services and in medical practices, and are frequently comorbid with other medical and psychiatric disorders. In spite of public education and outreach efforts, considerable societal stigma exists toward patients with addictive disorders; healthcare providers frequently have negative attitudes toward these patients as well. Many believe that it is a social issue, not a medical issue. As we are aware, the identification, assessment, and referral for treatment of patients are strongly influenced by physician attitudes and life experiences with personal, family, or prior patients' substance use. Effective tools and strategies help clinicians recognize the physiological and behavioral red flags of addiction and elicit a substance use history in a nonjudgmental manner, enabling the physician to make the appropriate diagnosis and develop a patient-specific plan for treatment and referral.

### ADULT PAIN MANAGEMENT

Pain management uses a multidisciplinary approach to reduce acute and chronic pain in pediatric and adult patients. Local, regional, and general anesthetic procedures are used in combination with psychological and other techniques such as chiropractic manipulations or acupuncture.

### ADVANCED OUTPATIENT AND INPATIENT

This elective is designed for with opportunities to expand the student's exposure to general and specialty psychiatry and allow further development of competencies in diagnosing and treating psychiatric disorders.

Students will be exposed to a broad range of psychopathology in diverse clinical practice settings including outpatient psychiatry in a medical school affiliated college mental health clinic, community-based clinic, an acute inpatient psychiatric hospital and a state psychiatric hospital. Clinical case conferences and/or didactics will supplement the clinical experience.

### AMBULATORY MEDICINE

This rotation will provide an educational experience in primary care community practice settings. This will provide exposure to community medicine physicians and role models, different practice models and practice styles, and aid in future career planning. Students will learn the management of urgent problems encountered in primary care practices. Students will also be able to perform problem-focused evaluations in an efficient manner.

### ANESTHESIOLOGY

Anesthesia is an intervention that allows the performance of surgical or other painful procedures in pediatric and/or adult patients using local, regional, or general anesthesia techniques. Perioperative care and acute and chronic pain management are also components of anesthesia.

### BURN SURGERY

The treatment of burns is a time-consuming and all-encompassing endeavor. During this elective rotation, students are exposed to the burn unit and its various components.

### CARDIOLOGY

The goal of this rotation is for the student to develop the ability to independently evaluate, treat, and monitor ACS, atrial fibrillation, CHF, ventricular arrhythmias, HTN, hyperlipidemia, valvular heart disease, and aortic dissection. At the completion of this elective, the student should be able to describe the diagnostic evaluation and management of common cardiac conditions.

### CHILD / ADOLESCENT PSYCHIATRY

The range of problems that may be encountered in child and adolescent psychiatry are, in part, covered by reports describing addictions and substance abuse, emergency psychiatric interventions, consultation liaison, school problems, and

family disruptions. The orientation of an elective in child and adolescent psychiatry could cover a wide range of clinical problems. All of these areas of study and patient care demand the ability to relate with patients in creative ways, to know the range of diagnostic and treatment options available, and to prioritize one's intervention in a practical and safe manner. Though family involvement is often required in the evaluation and treatment of adults, in child and adolescent psychiatry this involvement is required and is often essential. An elective in psychiatry therefore covers an immense range of problems including the possible placement of the child on a temporary or even permanent basis.

### CLINICAL RESEARCH

AUA clinical students may opt to take a research elective in medical research. This is typically a four-week experience. Initially, each student selects a preceptor/supervising physician who will guide and supervise the research experience. The specific activities required of the student will vary depending on the medical research topic and the stage of the research project. In some cases, the student may be completing a review of the literature, including an evaluation of the methodological strengths and weaknesses of that literature. In other cases, they may be developing a research proposal or collecting and analyzing data. Once this plan is reviewed and approved by the clinical student and the supervising physician, it must be submitted to the AUA Research Council for review and recommendation to the executive dean of Clinical Sciences. The research elective cannot proceed without approval from the executive dean of Clinical Sciences.

### COLORECTAL SURGERY

This rotation exposes students to a team specializing in colorectal pathologies. Diagnostic and therapeutic evaluations of all colorectal pathologies that plague a large portion of our population are emphasized. Tumors, both benign and malignant, along with inflammatory bowel pathologies, are the mainstay of pathologies seen. Students will gain essential knowledge about management of colon pathologies including Crohn's disease, ulcerative colitis, and benign and malignant colon tumors.

### COMMUNITY MEDICINE

This elective rotation is conducted in collaboration with teaching hospitals and allows students to serve their communities in hospitals, clinics and public health settings in order to address public health issues especially during the Covid-19 pandemic. Students, under supervision, will participate in projects to advocate and communicate public health policies to the general public and assist public health authorities and hospitals in their effort to fight the Covid-10 pandemic.

### COMPREHENSIVE PSYCHIATRIC EMERGENCY PROGRAM (CPEP)

Students are exposed to a variety of psychiatric emergencies including suicide attempts, drug overdoses, and other emergent acute psychiatric, psychotic disorders.

### CONSULTATION AND LIAISON PSYCHIATRY

Consultation-liaison psychiatry, also known as psychosomatic medicine, is a subspecialty of psychiatry that focuses on the care of patients with comorbid psychiatric and general medical conditions. Consultation-liaison psychiatry deals with the understanding and advancement of medical science, education, and the provision of healthcare for medically ill patients. This rotation in consultation-liaison psychiatry can expose students to different psychiatric manifestations of medical illness and their treatments and about care for medically ill patients who have psychiatric disorders.

### CRITICAL CARE

Clinical experiences in critical care medicine are intended to assist students' understanding of the unique life-threatening conditions faced by critically ill patients. These include, but are not limited to, organ failure, coma, shock, ventilatory support, and end-of-life transitions. The purpose of the elective is for students to become familiar with and comfortable in critical care units caring for a diverse population of surgical, neurological, and medical patients.

### DERMATOLOGY

Dermatology is the specialty of medicine concerned with management of disorders of the skin, mucous membranes, and adnexal structures, including hair and nails. This elective is designed to expose medical students to various aspects of dermatology and to gain a working knowledge of how to recognize skin signs of systemic diseases, normal findings (including benign growths of the skin), and common skin malignancies. The rotation will consist primarily of outpatient encounters, with some inpatient consultation with an attending physician and/or dermatology resident. A broad spectrum of disease entities will be seen that range in patient stage from initial diagnosis to those patients that have diseases that have been refractory to treatment.

Students will be exposed to inflammatory, infectious, neoplastic, metabolic, congenital, and structural disorders, and will be involved in the discussion of differential diagnoses, diagnostic evaluation, and outline of treatment plans. The goal is to have students understand how dermatologists apply an interdisciplinary approach to the management of skin disorders in a professional and compassionate manner.

### EMERGENCY MEDICINE

This rotation is typically done in a full-service emergency room, but students may spend some time in an urgent care center. The key in this rotation is the art of triage. Students shall be exposed to patients with pediatric psychiatric and adult medical-surgical emergencies. Students will observe their attending physicians, decide whether to admit and treat a patient on an inpatient basis, or arrange outpatient care of the patient. The treatment of many acute conditions, such as trauma and heart failure, requires a broad medical knowledge.

### EMERGENCY / TELEPSYCHIATRY

Many psychiatric problems present as emergencies and often occur in places with no local psychiatric services. Significant help in diagnosis and treatment can be carried out at a distance through telephonic means.

### ENDOCRINOLOGY

The goal of the endocrine elective is for students to develop the ability to independently evaluate, treat, and monitor common endocrine disorders (e.g., diabetes, thyroid dysfunction, lipid abnormalities, metabolic bone disease, and calcium disorders) and to become familiar enough with the less common endocrinopathies (e.g., adrenal disease, pituitary disease, and gonadal dysfunction) to recognize the abnormality and initiate proper evaluation and treatment.

### ENT

This rotation will expose students to pathologies of the ears, nose, and throat. These pathologies include otitis media and externa. Students will be exposed to both benign and malignant tumors of the ears, salivary glands, thyroid, parathyroid, vocal cords, and pharynx, and hypopharynx. Students will learn to evaluate these structures to determine the presence or absence of neck masses.

### FAMILY MEDICINE

The purpose of this elective is to provide the students with experience in an intern-like role in a Family Medicine training program. This advanced inpatient experience provides an opportunity for students to challenge themselves with an in-depth experience in family medicine. The objectives of this elective are an expansion of the Family Medicine core clerkship.

### FORENSIC PATHOLOGY

This rotation immerses students into a medical legal environment, typically in a medical examiner's office. The chain of evidence and time and cause of death will be studied in this rotation. The pathologist determines, through the use of scientific deduction, the immediate and contributory cause and time of death, along with the identification of victim.

### GASTROENTEROLOGY

The gastroenterology elective is designed to provide medical students with a well-rounded learning experience in gastroenterology and hepatology that is integral to the specialty of internal medicine. The goal of this elective is for students to develop the ability to independently evaluate, treat, and monitor the broad range of diseases in general gastroenterology and hepatology, including transplant hepatology, and to understand the use of advanced endoscopy in both inpatient and outpatient settings.

### GENERAL SURGERY

This is typically an extension of the core rotation. All the basic skills required in your basic rotation are finessed here. This would be the place to have more extensive exposure to the OR and more bedside procedures and teaching. Students typically round with the team and perform tasks similar to those of first-year residents. This is an ideal rotation for those students who are interested in surgical specialties.

### GERIATRIC MEDICINE

The geriatric/gerontology elective rotation fosters geriatric community experiences improving the understanding of persons over the age of 65 years, enhancing clinical skills assessments in geriatric areas and increasing students' interest in geriatric care.

### GYN ONCOLOGY

GYN oncology is an elective involving diagnosis and treatment of gynecologic neoplasms. The rotation will be supervised by the gynecologic oncologist in the office/clinic setting for diagnosis and medical treatment, as well as surgical procedures for invasive disease. The elective may also involve co-management with radiation oncology for radiation treatment and hematology oncology for chemotherapy options while treating invasive gynecologic neoplasms.

### HEMATOLOGY / ONCOLOGY

The hematology and oncology elective is designed to facilitate students' understanding of common clinical presentations, evaluation, and management of blood dyscrasias and neoplastic disorders. Students will learn the proper evaluation and care of the oncology patient, from diagnosis and tumor staging to chemotherapy and palliation. Simultaneously, students will learn the proper evaluation of hematological disorders, including interpretation of diagnostic tests and initiation of treatment.

### INFECTIOUS DISEASE

The purpose of the infectious disease rotation is to assist students in understanding the evaluation and treatment of both chronic and acute infectious illnesses. In the supervised setting, students will learn to isolate infectious sources and choose appropriate antimicrobial therapies based on evidence gathered from multiple sources, including patient history and physical, as well as blood work, radiological studies, and empiric data. At the completion of this elective, the student should be able to describe the diagnostic evaluation and management of common infectious diseases.

### INTERNAL MEDICINE

The purpose of the elective in internal medicine is for the medical student to gain further experience in the elements of patient care. This elective will focus on the more detailed aspects of histories, physical examinations, various elements used in diagnosis (imaging procedures, lab tests, invasive testing, etc.), and the development and implementation of diagnostic and therapeutic plans.

### INTERVENTIONAL CARDIOLOGY

The goal of the interventional cardiology elective is to introduce students to a branch of cardiology that deals specifically with the catheter-based treatment of structural heart diseases.

INTRODUCTION TO DISASTER MANAGEMENT

This elective is an introduction to the concept of disaster management, and serves as a framework to prepare future physicians for effective disaster management. Topics include disaster lifecycles and associated costs, preparedness, disaster psychology, the role of the community in disaster mitigation, team organization, and incident command systems.

MEDICAL AND POPULATION SCIENCES RESEARCH COURSE

This elective is intended for students interested in population-level health services research. Coursework includes the study of basic theoretical concepts of scientific research, the elements of a research plan, data analysis, research protocol, and summarizing said research in a structured abstract.

Students will obtain hands-on experience in scientific research in health in this elective offered by the Division of Medical and Population Sciences Research, Herbert Wertheim College of Medicine, Florida International University - (FIU HWCOR). This will be achieved by developing a short project in the role of co-principal investigators.

MULTI-DISCIPLINARY GRAND ROUNDS – 5 WEEKS

The objective of the Multi-disciplinary Grand Rounds is to provide a remote option during the pandemic to familiarize the students with each of the specialties/subspecialties during their clinical education and to further deepen their clinical knowledge. The MDGRs are available to all clinical students after FM1/IM1 and involve clinical scenarios, didactic lectures, case presentations, and web-based and evidence-based medicine learning tools used to deliver the content remotely over a 6-week period. One week each is dedicated per core specialty (IM, FAM, OB/GYN, PEDS, and PSY), and faculty will cultivate dedicated sessions including core content topics, subspecialty highlights, and discussions on providing equitable care within a complex health system.

NEONATOLOGY

The purpose of the neonatology elective is to give students the experience in learning about normal and ill newborns. In a supervised setting, students will have hands-on training in handling both the infants and the equipment.

NEPHROLOGY

The nephrology elective is designed to help students understand the signs, symptoms, and management of common renal syndromes, including acute renal failure, chronic renal failure, glomerulonephritis, and nephrotic syndrome. Additionally, students will become familiar with the management of fluid, electrolyte and acid-base disorders, and the diagnosis and management of primary and secondary hypertension.

NEUROLOGY

Neurology is a field based on knowledge of brain and peripheral nerve function that is essential for both neurologists and all clinicians. It includes many diseases of the central nervous system, such as temporal lobe epilepsy, that can present with prominent psychiatric symptoms that have a known organic basis. During this elective rotation students will become familiar with the diagnostic evaluation and treatment of patients with common neurologic disorders, including peripheral neuropathy and cerebrovascular accident.

NEUROPSYCHIATRY

Students will utilize his/her basic knowledge of neurology and psychiatry to become proficient in understanding several illnesses that present symptoms and signs of a clear organic origin and a syndrome with primary behavioral symptoms.

NEUROSURGERY

Students will become familiar with a proper neurologic exam while assigned to a neurosurgical team. Exposure to a wide array of neurosurgical procedures and pre- and postoperative care will be provided. This rotation is a unique experience for any student; students will acquire skills in neurologic evaluation that will serve them well in their medical careers.

### OCCUPATIONAL MEDICINE

The occupational and environmental health elective is the area of family medicine dedicated to the prevention and management of occupational and environmental injury, illness and disability, and the promotion of health and productivity of workers, their families and communities.

### OPHTHALMOLOGY

The goal of this elective is to provide students with a strong foundation in clinical ophthalmology, including an understanding of the anatomy of the eye and orbit, the basics of a complete eye examination (i.e., vision acuity, pupil response, intra-ocular pressure, ocular motility, visual field, anterior segment, and fundus examination), the basics of common eye diseases (e.g., cataract, glaucoma, macular degeneration), and the basics of ophthalmic manifestations of systemic diseases (e.g., diabetes, thyroid disease).

### ORTHOPEDIC / SPORTS MEDICINE

The goal of this elective rotation is to expose students to common problems encountered in sports medicine, including their presentation, diagnosis, and management. The student will be given the opportunity to learn and refine musculoskeletal physical examination skills and become familiar with common procedures used in sports medicine (e.g., injection techniques, fracture care, splinting/casting).

### ORTHOPEDIC SURGERY

This clerkship will emphasize the study and prevention of musculoskeletal diseases through a four-week rotation with an orthopedic team. Students will participate in assessment of X-rays and examination of fractures and arthrosis. Students will also participate in orthopedic surgeries as a team member.

### PATHOLOGY

This elective is designed to expose students to the fields of anatomic and clinical pathology, including surgical pathology, cytopathology, hematopathology, and laboratory medicine. It will also introduce students to the practice of pathology and the role of the pathologist in diagnosis and management of disease.

### PEDIATRICS

The purpose of the pediatric elective is to give students further exposure and experience with children from birth to age 18. Under supervision, students will be given the opportunity to examine, manage, and follow patients, as well as learn to perform common procedures such as venipuncture and lumbar puncture.

### PERINATOLOGY

Perinatology, also known as maternal fetal medicine (MFM), is a four-week elective encompassing high-risk pregnancies. The rotation will be supervised by the perinatologist, and performed alongside attending obstetricians and residents involved with high-risk antepartum, intrapartum, and postpartum care. The majority of the elective will be spent in the antepartum testing unit learning high-risk fetal surveillance (NST, BPP, USS) along with management and treatment of medical complications of high-risk patients on the antepartum floor and L&D.

### PERIOPERATIVE MEDICINE

During this rotation, students will round with surgical and medical teams caring for surgical patients pre- and postoperatively. Students will observe the optimization preoperatively of patients with multiple comorbidities. Students will gain experience in operative procedures on these patients and the care in the immediate postoperative period. Students will be exposed to the operating room and critical care units.

### PHYSICAL MEDICINE & REHABILITATION

During this rotation, students will be exposed to the basics of rehabilitation medicine as it applies to the performance of ambulation, activities of daily living, and occupational activities.



PLASTIC SURGERY

Students will have the opportunity to experience the workings of a plastic surgery specialty, exposing them to reconstructive and cosmetic procedures. Students will participate in the assessment of and reconstruction of postoperative cancer patients. Students will become familiar with the preparation and planning of wound treatments and reconstructive procedures. Cosmetic procedures will also be introduced.

PREVENTIVE & SOCIAL MEDICINE / PUBLIC HEALTH

This elective will provide students with an interest in general preventive medicine and public health a unique opportunity to gain insight into the practice of clinical and population-based preventive medicine. The students will observe and discuss preventive medicine and public health issues with preventive medicine-trained physicians; their role in population health will be emphasized.

PULMONARY ICU

The goal of the pulmonary ICU elective is to facilitate students' understanding of the common clinical presentations, evaluation, and management of pulmonary disorders requiring treatment in the intensive care unit. Students will learn the evaluation and treatment of acute and chronic pulmonary diseases ranging from the familiar (COPD) to the infrequent (sarcoidosis).

RADIOLOGY

The goal of this elective is to provide a comprehensive overview of the practice and application of modern diagnostic radiology. The role of the radiologic subspecialties in diagnosis and treatment in both outpatient and inpatient settings is emphasized.

REPRODUCTIVE ENDOCRINE / INFERTILITY

Reproductive endocrine/infertility (REI) is a four-week elective with emphasis on common endocrine and infertility issues involved with reproductive and menopausal patients. The rotation will take place mainly in an office/clinic setting, include minimally invasive laparoscopic procedures for certain diagnoses (e.g., endometriosis, chronic pelvic pain, unexplained infertility) and be supervised by the reproductive endocrinologist.

RHEUMATOLOGY

The goal of the rheumatology elective is to introduce students to the diagnostic approach, workup, and management of the connective tissue diseases, inflammatory arthropathies, crystalline arthropathies, and vasculitides. This rotation will form the foundation for understanding the often-complex nature of autoimmune and musculoskeletal diseases.

SPORTS MEDICINE

The goal of this elective rotation is to expose the student to common problems encountered in Sports Medicine, including their presentation, diagnosis and management. The student will be given the opportunity to learn and refine musculoskeletal physical examination skills and become familiar with common procedures used in Sports Medicine (i.e. injection techniques, fracture care, splinting/casting)

SURGICAL ICU

This rotation will provide students with a complete exposure to the day-to-day workings of a surgical ICU. Students will learn the management of postoperative patients. While on the SICU rotation, students will understand the management of respirators, chest tubes, central lines, drains, etc. Students will be exposed to the use of a variety of pharmacologic agents including pressors and understand the day-to-day evaluation of critically ill postoperative patients and possible complications, including sepsis and multi-organ failure. These learned skills will serve students well regardless of his/her ultimate chosen field of medicine.

SURGICAL ONCOLOGY

Students will be involved in the care of surgically treated oncology patients. These patients will include, but not be limited to, those with some of the more common surgically treated cancers. Breast, GI, colon, skin (including melanoma), and lung cancers will be part of the student's day-to-day practice. The student will understand and work with radiation and medical oncologists.

TELEMEDICINE

This remote elective rotation will provide students an introduction to telemedicine. Students will evaluate patients with a variety of common chronic and acute complaints and make initial management recommendations in conjunction with their supervising physician. Patients will be seen in a remote ambulatory setting for initial evaluation or continuity of care. Students will be exposed to the core principles in patient care in various disciplines with further development of clinical reasoning and patient management. Students will learn about the community in which they serve patients and how that community and the individual's social determinants of health may affect health care outcomes. Students will observe common outpatient procedures and point of care diagnostic testing.

TRAUMA

Students will be placed with a trauma team. Trauma protocols and evaluation (i.e., triage) of trauma patients will be learned. These patients have varied injuries. Students will learn basic ATLS. Students' immersion in this rotation will teach them to properly prioritize trauma patients.

URGENT CARE

Students on the urgent care rotation work in the ambulatory setting. Patients are scheduled with urgent concerns and for follow-up visits after emergency department or inpatient care. Working closely with the supervising attending physicians, the urgent care learner is expected to develop skills necessary to provide excellent patient care in the urgent care setting.

UROGYNECOLOGY / MINIMALLY INVASIVE SURGERY

Urogynecology, also known as pelvic reconstructive surgery, is an elective involving the diagnosis and treatment of urinary incontinence and pelvic floor disorders. The rotation will be supervised by the urogynecologist along with gynecologists and residents who treat urogynecologic conditions medically in an office/clinic setting and surgically utilizing minimally invasive techniques (e.g., laparoscopy, vaginal colposuspensions).

UROLOGY

During this rotation, students will rotate with a urology team. Evaluation of urogenital function in both male and female patients with a concentration on renal, bladder, ureter, and urethral pathologies is provided. Students will learn to evaluate the flow dynamics of the bladder and urethra with a special concentration in prostate pathologies. Both benign and malignant tumors associated with these structures, including the testes, will be evaluated.

VASCULAR SURGERY

This rotation usually involves students with a vascular team. The day-to-day evaluation of vascular patients includes invasive and noninvasive vascular testing. The examination of these patients will include determination of claudication, tissue loss and impeding gangrene, and the selection of appropriate therapies, be they endovascular, open vascular, or medical options

WOMEN'S HEALTHCARE & AMBULATORY GYNECOLOGY (WHC)

Ambulatory gynecology, also known as women's healthcare (WHC), is supervised by the gynecologist and/or family practitioner in an office/clinic setting for common ambulatory outpatient gynecologic conditions (e.g., abnormal bleeding, vaginitis, colposcopy for abnormal pap smears), as well as preventive care counseling (e.g., STIs, contraception, domestic violence). Students are exposed to a large variety of diseases and are expected to become familiar with the evaluation and treatment of these disorders.

## TRANSFER CREDITS AND COURSES

### TRANSFER CREDIT

American University of Antigua College of Medicine (AUACOM) does not accept transfer credits.

Transfer of credits received from AUACOM to another institution are accepted solely at the discretion of the accepting institution. AUACOM makes no representation that credits earned at AUACOM will be accepted by any other educational institution.

### COURSE NUMBERING SYSTEM

Course Range:

5000–6999 are associated with Preclinical Sciences.

- 5000–5999 being Academic Year I
- 6000–6800 being Academic Year II

The individual breakdown of the four-digit course number

- 1st integer represents professional level course
- 2nd integer represents term number where course belongs
- 3rd integer represents academic year
- 4th integer represents course sequence

6850 to 7100 are associated with BSIC and 5<sup>th</sup> semester.

- All exams and courses are associated in this range.

7110 to 7200 are associated with clinical core clerkships.

7200 to 9000 are associated with clinical elective clerkships.

An American University of Antigua College of Medicine student carrying nine or more credits in a term is considered a full-time student. Any student taking less than full-time or nine credits is considered a part-time student at AUACOM.

## TERM CREDIT HOURS

American University of Antigua (AUA) defines a credit hour as the following:

A Credit Hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an AUA established equivalency that reasonably approximates not less than-

1. one hour of classroom or direct faculty instruction or other academic activities as established by AUA and two hours of out of classroom work each week for no fewer than 15 weeks for one term or the equivalent amount of work over a longer period of time within a term as AUA shall determine; or,
2. At least an equivalent amount of work as required in paragraph 1. of this definition for other academic activities as AUA shall establish and/or require including laboratory work, clerkships, internships, practica, studio work, and other academic work leading to the award of credit hours.

### CREDIT HOURS FOR PRECLINICAL SCIENCES COURSES [ SPRING 2023 ]

#### YEAR ONE, SEMESTER I

COURSE	CREDIT HOURS
Pre-Clinical Science I	19
<b>Total Credit Hours:</b>	<b>19</b>

#### YEAR ONE, SEMESTER II

COURSE	CREDIT HOURS
Pre-Clinical Science II	19
<b>Total Credit Hours:</b>	<b>19</b>

#### YEAR TWO, SEMESTER III

COURSE	CREDIT HOURS
Pre-Clinical Science III	19
<b>Total Credit Hours:</b>	<b>19</b>

#### YEAR TWO, SEMESTER IV

COURSE	CREDIT HOURS
Pre-Clinical Science IV	19
<b>Total Credit Hours:</b>	<b>19</b>

BSIC INTERSESSION

COURSE	CREDIT HOURS
Basic Science Integration Course (BSIC)	10
<b>Total Credit Hours:</b>	<b>10</b>

SEMESTER V

<b>Total Credit Hours:</b>	<b>21</b>
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SEMESTER VI

<b>Total Credit Hours:</b>	<b>21</b>
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SEMESTER VII

<b>Total Credit Hours:</b>	<b>21</b>
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SEMESTER VIII

<b>Total Credit Hours:</b>	<b>21</b>
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## ESTIMATED COST OF ATTENDANCE

American University of Antigua College of Medicine - Estimated Cost of Attendance - Fall 2022/Spring 2023					
	Year 1		Year 2		Intersession BSIC
	Preclinical Sciences 1	Preclinical Sciences 2	Preclinical Sciences 3	Preclinical Sciences 4	
<b>Institutional:</b>					
<b>Tuition</b>	\$23,150	\$23,150	\$23,150	\$23,150	\$19,250
<b>Fees</b>	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
<b>Total</b>	<b>\$24,650</b>	<b>\$24,650</b>	<b>\$24,650</b>	<b>\$24,650</b>	<b>\$20,750</b>
<b>Living Expenses:</b>					
<b>Med Insurance</b>	\$1,100	\$1,100	\$1,100	\$1,100	\$1,100
<b>Room</b>	\$7,650	\$7,650	\$7,650	\$7,650	\$4,000
<b>Board (Food)</b>	\$3,800	\$3,800	\$3,800	\$3,800	\$2,000
<b>Transportation</b>	\$2,000	\$2,000	\$2,000	\$2,000	\$1,400
<b>Exam/Other Fees</b>	\$85	\$0	\$0	\$250	\$1,595
<b>Personal</b>	\$1,000	\$1,000	\$1,000	\$1,000	\$500
<b>Total</b>	<b>\$15,635</b>	<b>\$15,550</b>	<b>\$15,550</b>	<b>\$15,800</b>	<b>\$10,595</b>
<b>Loan Fee Est.</b>	\$1,475	\$1,475	\$1,475	\$1,475	\$1,050
<b>Total Cost of Attendance</b>	<b>\$41,760</b>	<b>\$41,675</b>	<b>\$41,675</b>	<b>\$41,925</b>	<b>\$32,395</b>
	<b>Clinical Sciences 5</b>	<b>Clinical Sciences 6</b>	<b>Clinical Sciences 7</b>	<b>Clinical Sciences 8</b>	<b>AUACOM Total</b>
<b>Institutional:</b>					
<b>Tuition</b>	\$30,850	\$30,850	\$30,850	\$30,850	\$235,250
<b>Fees</b>	\$1,500	\$1,500	\$1,500	\$1,500	\$13,500
<b>Total</b>	<b>\$32,350</b>	<b>\$32,350</b>	<b>\$32,350</b>	<b>\$32,350</b>	<b>\$248,750</b>
<b>Living Expenses:</b>					
<b>Med Insurance</b>	\$1,100	\$1,100	\$1,100	\$1,100	\$9,900
<b>Room</b>	\$8,250	\$8,250	\$8,250	\$8,250	\$67,600
<b>Board (Food)</b>	\$4,000	\$4,000	\$4,000	\$4,000	\$33,200
<b>Transportation</b>	\$2,250	\$2,250	\$2,250	\$2,250	\$18,400
<b>Exam/Other Fees</b>	\$20	\$0	\$1,435	\$0	\$3,385
<b>Personal</b>	\$1,150	\$1,150	\$1,150	\$1,150	\$9,100
<b>Total</b>	<b>\$16,770</b>	<b>\$16,750</b>	<b>\$18,185</b>	<b>\$16,750</b>	<b>\$141,585</b>
<b>Loan Fee Est.</b>	\$1,675	\$1,675	\$1,675	\$1,675	\$13,650
<b>Total Cost of Attendance</b>	<b>\$50,795</b>	<b>\$50,775</b>	<b>\$52,210</b>	<b>\$50,775</b>	<b>\$403,985</b>

\*tuition for AUA-Global Health Track (GHT) is an additional \$2,300 per periods 1-4 & BSIC

\*tuition for FIU students enrolled during periods 5-8 is an additional \$420 per week

\*fees includes all educational resources required to complete coursework; no additional textbooks will be needed

Not all the above are obligations owed to the University but are estimated charges of outside providers.  
Subject to change.

## SCHOLARSHIP OPPORTUNITIES

For details on continuing scholarship eligibility, please refer to the corresponding section in this catalog.

### ACADEMIC SCHOLARSHIP AWARDS

#### HIGH ACHIEVERS SCHOLARSHIP

*AUA recognizes that earning and maintaining a high GPA is an incredible achievement and is proud to offer the High Achievers Scholarship. AUA offers three award tiers for the High Achievers Scholarship. Award amounts are dependent on all recommended courses and undergraduate GPAs.*

##### **Tier 1 Award Amount**

\$90,000, awarded \$9,000 per payment period (1-4) plus intersession, then \$11,250 per payment period (5-8)

##### **Eligibility Requirements**

- All recommended courses GPA between 3.71 and 3.80
- Undergraduate GPA between 3.71 and 3.80

##### **Tier 2 Award Amount**

\$95,000, awarded \$9,500 per payment period (1-4) plus intersession, then \$11,875 per payment period (5-8)

##### **Eligibility Requirements**

- All recommended courses GPA between 3.81 and 3.90
- Undergraduate GPA between 3.81 and 3.90

##### **Tier 3 Award Amount**

\$100,000, awarded \$10,000 per payment period (1-4) plus intersession, then \$12,500 per payment period (5-8)

##### **Eligibility Requirements**

- All recommended courses GPA between 3.91 and 4.0
- Undergraduate GPA between 3.91 and 4.0

#### PROVOST SCHOLARSHIP

*AUA recognizes that earning a competitive MCAT score while maintaining a high GPA is an incredible achievement and is proud to offer the Provost Scholarship.*

##### **Award Amount**

\$100,000, awarded \$10,000 per payment period (1-4) plus intersession and \$12,500 per payment period (5-8)

##### **Eligibility Requirements**

- MCAT score of 505 and above (28 and above on scores before 2015)
- All recommended courses and undergraduate GPA of 3.50 and above
- Hold an undergraduate degree (equivalent to U.S. bachelor's degree)

*Students need not apply for this scholarship as they are automatically awarded if qualified.*

#### **DEAN'S ACHIEVEMENT SCHOLARSHIP**

*AUA recognizes the time and effort students have invested in taking the MCAT. Although we do not consider your MCAT score in admissions decisions, we will consider high scores for a scholarship.*

#### **Award Amount**

\$80,000, awarded \$8,000 per payment period (1-4) plus intersession and \$10,000 per payment period (5-8)

#### **Eligibility Requirements**

- MCAT score of 505 and above (28 and above on scores before 2015)
- Hold an undergraduate degree (equivalent to U.S. bachelor's degree)

*Students need not apply for this scholarship as they are automatically awarded if qualified.*

#### **PHYSICIAN DIVERSIFICATION INITIATIVE SCHOLARSHIP**

*AUA believes a diverse patient population requires a physician who trained in a diverse community. To embrace a more diverse community, AUA is proud to offer a limited number of Physician Diversification Initiative Scholarships to qualified applicants.*

**Award Amount:** \$50,000, awarded \$5,000 per period (1-4) plus intersession and \$6,250 per period (5-8)

#### **Eligibility Requirements**

- Applicants must submit a completed application along with:
  - An essay of no more than 500 words
  - A list of certificates and awards
  - A copy of their passport
  - A letter of recommendation separate from ones used during the enrollment process
- All recommended courses and undergraduate GPA of 3.25 and above
- Must be a U.S. citizen or permanent resident
- Prove qualification as one of the underrepresented categories as defined by AAMC (<https://www.aamc.org/initiatives/urm>)

#### **ADMISSIONS COMMITTEE SCHOLARSHIP (THREE TIERS)**

*The foundation of a successful physician begins with strong academic undergraduate performance. AUA recognizes the academic success of its accepted applicants and is proud to offer the Admissions Committee Scholarship.*



*AUA offers three award tiers for the Admissions Committee Scholarship. Award amounts are dependent on all recommended courses and undergraduate GPAs.*

**Tier 1 Award Amount**

\$55,000, awarded \$11,000 per payment period (1-4) plus intersession

**Eligibility Requirements**

- All recommended courses GPA between 3.0 and 3.5
- Undergraduate GPA between 3.0 and 3.5

**Tier 2 Award Amount**

\$65,000, awarded \$13,000 per payment period (1-4) plus intersession

**Eligibility Requirements**

- All recommended courses GPA between 3.51 and 3.60
- Undergraduate GPA between 3.51 and 3.60

**Tier 3 Award Amount**

\$70,000, awarded \$14,000 per payment period (1-4) plus intersession

**Eligibility Requirements**

- All recommended courses GPA between 3.61 and 3.70
- Undergraduate GPA between 3.61 and 3.70

*Students need not apply for these scholarships as they are automatically awarded if qualified.*

**NEW YORK SCHOLARSHIP**

*AUA graduates earn more residencies in New York than in any other state. Our graduates are from diverse cultural and economic backgrounds and often pursue much needed primary care fields. In an effort to continue to serve the state of New York with qualified physicians, AUA is pleased to offer the New York Scholarship.*

**Award amount:** \$20,000 awarded \$4,000 per period (1-4) plus intersession

**Eligibility Requirements**

- All recommended courses GPA of 3.00 and above
- Undergraduate GPA of 3.25 and above
- Resident of New York State

*Students need not apply for this scholarship as they are automatically awarded if qualified.*

## **SERVICE AWARDS**

### **U.S. MILITARY VETERANS GRANT**

*AUA recognizes the service and sacrifice performed by the U.S. Military and is pleased to offer a limited number of U.S. Military Veterans Grants.*

**Award amount:** \$12,500, awarded \$2,500 per period (1-4) plus intersession

#### **Eligibility Requirements**

- Military veterans who have served in the U.S. Armed Forces on active duty, either currently or with an honorable discharge
- Applicants must submit a completed application along with a DD214 form demonstrating eligibility

### **JONATHAN ROHR GRANT**

*Jonathan was completing medical school at the time of his death. He was a very popular, straight-A student at AUA. In addition to the tremendous workload of a medical student, Jonathan was a lead TA at the school where he mentored other medical students in Anatomy, his favorite subject. He was also heavily involved in local triathlon activities. He helped organize the first triathlon race held in Antigua. The Jonathan Rohr Grant is awarded to one qualified student per period that embodies the spirit of Jonathan Rohr.*

**Award Amount:** \$5,125, one-time award; includes entry to the Tinman Rohr Triathlon

#### **Eligibility Requirements**

- Personal statement describing a passion for and commitment to athletics, community service, and teaching
- Letter of recommendation from a service organization and/or athletic coach
- Complete the grant award application

### **CAREER ADVANCEMENT GRANT**

*AUA recognizes students who have contributed to the health and well-being of others through other health professions and are now ready to expand on their medical knowledge and expertise.*

**Award amount:** \$2,500, one-time award for first payment period

#### **Eligibility Requirements**

- Applicants must submit a completed application along with:
  - Proof of current certification
  - Proof of full-time employment for at least 6 months in a recognized health profession (including but not limited to: RN, EMT, PA, PT, Chiropractor, Pharmacist, X-ray Tech, Phlebotomy)
  - Letter of recommendation from a supervisor separate from ones used during the enrollment process

**GLOBAL EDUCATION SERVICE GRANT**

*Awarded during intersession to allow student travel to an underserved area to work with a physician to fulfill their enhancement project criteria.*

**Award amount:** Up to \$1,500, awarded toward the cost of a global enhancement project

**Eligibility Requirements**

- Applicants must submit a completed application and personal statement discussing the student's interest in and understanding of the needs of the underserved nations; must include a description of the work the student will be doing to meet the enhancement requirement
- Students must have successfully completed their first, second, or third period
- Awarded by the Dean of Preclinical Sciences
- Students may be selected only once for this award

**AUA RESEARCH GRANT**

*The AUA Research Grant is awarded to clinical students who are involved in research opportunities that have been published or presented at the regional, national, or international levels.*

**Award amount:** \$500, a one-time grant awarded during clinicals

**Eligibility Requirements**

- Students must be presently enrolled in a clinical period and in good standing with AUA
- Students must identify the research paper which should identify (in the acknowledgements) AUA as the student's affiliation
- Awarded by the Dean of Clinical Sciences and the Chair of the Research Committee

**ALUMNI FRIENDS AND FAMILY GRANT**

*AUA is pleased to assist the career aspirations of students from the Caribbean community (CARICOM) by offering a special tuition grant.*

**Award Amount:** \$5,000, awarded \$1,000 per period (1-4) plus intersession

**Eligibility Requirements**

- Students need to be referred to attend AUA by someone who has graduated either from AUA or from a Manipal MBBS program (Kasturba Medical College, Manipal; Kasturba Medical College, Mangalore; or Sikkim Manipal Institute of Medical Sciences, Sikkim)
- An individual alumnus or alumna can only refer two potential enrollments per academic period

**PREFERRED PROGRAM GRANT**

*The AUA Preferred Partner Grant is awarded to students who have matriculated from an undergraduate school that has officially partnered with AUA. [View AUA's university partnerships.](#)*

**Award Amount:** \$5,000, awarded \$1,000 per period (1-4) plus intersession

#### **Eligibility Requirements**

- Must have graduated from one of AUA's [undergraduate university partners](#)

#### **ALUMNI FAMILY AND FRIENDS GRANT**

*The Alumni Friends & Family Grant is awarded to entering students who are referred to attend AUA by an alumnus/ alumna of either AUA or of a Manipal MBBS program.*

#### **Award Amount**

\$5,000, awarded \$1,000 per payment period (1-4) plus intersession

#### **Eligibility Requirements**

- Students need to be referred to attend AUA by someone who has graduated either from AUA or from a Manipal MBBS program (Kasturba Medical College, Manipal; Kasturba Medical College, Mangalore; or Sikkim Manipal Institute of Medical Sciences, Sikkim)
- An individual alumnus or alumna can only refer two potential enrollments per academic period

#### **CULTURAL AWARDS**

##### **INTERNATIONAL UK GRANT**

*AUA is proud to offer the International UK Grant to students from the United Kingdom who join AUA via the International Track.*

#### **Award Amount**

\$55,000, awarded \$5,500 per payment period (1-4) plus intersession and \$6,875 per payment period (5-8)

#### **Eligibility Requirements**

- Must be a citizen or permanent resident of the United Kingdom upon acceptance to AUA's International Track
- However, if a qualifying applicant has First Class Honours and Second Class Honours, First Division, he or she will receive an additional \$10,000, for a grand total of \$65,000

##### **CANADIAN CITIZEN'S GRANT**

*AUA is proud to offer a pathway for Canadian students to become licensed, practicing physicians. The Canadian Citizen Grant is offered to a limited number of incoming students to help offset the cost of their medical education.*

#### **Award Amount**

\$5,000, awarded \$1,000 per payment period (1-4) plus intersession

#### **Eligibility Requirements**

- Must have graduated from an AUA-approved undergraduate university program

### Raymond Salort Memorial Scholarship

*In memory of Raymond Salort III, this award was created to honor the memory of Raymond Salort, who passed away in November of 2020 while studying to be a Physician. Raymond was awarded his Medical Degree posthumously.*

*Dr. Matt Passeggiata who studied and lived with Raymond at AUA said – “Raymond was such a kind, funny, and caring person. He was an incredible man and an exceptional student. He proved how academically inclined he was by being named a top 5 student of the Med 1 class. A time when most students do not do well, Ray excelled. His character was like no other. He took time to help those around him and jumped at any opportunity to help me. Ray helped me completely change the way I took notes, as well as taught me a more efficient and effective way to study. With his guidance and friendship, I completely turned my grades around and achieved my goals. Moreover, his funny jokes and charismatic personality always uplifted the mood when studying hard. Without the advice, direction, and support of Ray early on in my medical school journey I can wholeheartedly say I wouldn’t be where I am today.”*

#### Award Amount

\$500, a one-time award for payment period, is intended to be used towards educational expenses.

#### Eligibility Requirements

- Applicants must submit a completed application along with:
- A short essay on their journey to medicine and what obstacles they may have overcome
- Apply before January 1<sup>st</sup> for consideration for the February start

*Awarded to one applicant per payment period.*

### Cultural Awards

#### THE AMERICAN ASSOCIATION OF PHYSICIANS OF INDIAN ORIGIN (AAPI) GRANT

*AUA is the only medical school recognized by the American Association of Physicians of Indian Origin (AAPI). We’re proud to recognize our long-standing relationship with this prestigious physicians’ group with the AAPI Grant, a financial award offered to a limited number of qualified applicants to AUA who represent the bonds our organizations share as educators and physicians.*

**Award Amount:** \$25,000, awarded \$5,000 per period (1-4) plus intersession

#### Eligibility Requirements

- Must show proof of Antiguan citizenship
- Contact the Prime Minister’s office and or the Ministry of Education’s office to apply for this scholarship
- Students must sign a contract outlining the grant conditions

#### THE ANTIGUAN TUITION GRANT

*AUA is committed to building the island supporting our students and campus community. To that goal, AUA is pleased to offer the Antiguan Tuition Grant to a limited number of Antiguan citizens.*

**Award Amount:** Full tuition and institutional fees for the entire medical education program leading to an MD degree; does not cover room, board, transportation, insurance, and other living expenses

### Eligibility Requirements

- Selected by the Admissions Committee
- Must show proof of Antiguan citizenship
- Contact the Prime Minister's office and or the Ministry of Education's office to apply for this scholarship

*AUA cannot guarantee clinical placement in the United States, as immigration to the United States is at the discretion of the U.S. immigration authorities. Some or all clinical rotations may be scheduled at sites in CARICOM nations.*

*The grant only covers base tuition costs; for other programs like the Global Health Track during Preclinical Sciences and intersession or the Graduate Clinical Core Rotation Certificate Program during Clinical Sciences, the difference in tuition will be the responsibility of the student.*

### THE MONTSERRAT TUITION GRANT

*One grant per every calendar year is awarded to a citizen of Montserrat enrolling into AUA.*

**Award Amount:** Full tuition and institutional fees for the entire medical education program leading to an MD degree; does not cover room, board, transportation, insurance, and other living expenses

### Eligibility Requirements

- Must show proof of Montserrat citizenship
- Contact the Premier's office to apply for this scholarship
- Students must sign a contract outlining the grant conditions

*AUA cannot guarantee clinical placement in the United States, as immigration to the United States is at the discretion of the U.S. immigration authorities. Some or all clinical rotations may be scheduled at sites in CARICOM nations.*

*The grant only covers base tuition costs; for other programs like the Global Health Track during Preclinical Sciences and intersession or the Graduate Clinical Core Rotation Certificate Program during Clinical Sciences, the difference in tuition will be the responsibility of the student.*

### GRANT FOR SOUTH ASIAN CITIZENS AND RESIDENTS

**Award Amount:** \$86,500, awarded \$9,500 per period (1-4) plus intersession and \$9,750 per period (5-8)

### Eligibility Requirements

- Applicants must submit a completed application along with:
  - Applicants must be citizens and residents of any of the South Asian Countries (Afghanistan, Bangladesh, Bhutan, India, the Maldives, Nepal, Pakistan, and Sri Lanka)
  - A copy of their passport
  - One-page personal statement indicating why they should be considered for the scholarship
- Applicants who have taken college-level coursework in the United States or Canada are ineligible for this scholarship

*AUA cannot guarantee clinical placement in the United States; immigration to the United States is at the discretion of the U.S. immigration authorities.*

**AUA-BAPIO GRANT**

**Award Amount:** \$86,500, AWARDED \$9,500 PER PAYMENT PERIOD (1-4) PLUS INTERSESSION AND \$9,750 PER PAYMENT PERIOD (5-8)

**Eligibility Requirements**

Applicants must submit a completed application to AUA, along with:

- One-page personal statement indicating why they should be considered for the scholarship; the statement should outline academic successes and challenges, community service, and professional achievements/recognitions.
- A recommendation letter from BAPIO's Head Office

*A total of two AUA-BAPIO Scholarships will be awarded every academic period (twice per year) to new students.*

**INTERNATIONAL GRANT**

**Award Amount:** \$65,000, awarded \$13,000 per payment period (1-4) plus intersession

**Eligibility Requirements**

- Resident of a country that is *not* the United States, Canada, United Kingdom, or a South Asian country (Afghanistan, Bangladesh, Bhutan, India, the Maldives, Nepal, Pakistan, and Sri Lanka)
- Applicants must submit a completed application along with:
  - Proof of residency (no older than two months from the application date)
  - A copy of their passport

There are no GPA requirements for this award.

**NEW YORK MINORITY PHYSICIAN GRANT**

*In an effort to create a more diverse physician workforce, AUA is proud to offer undergraduate African-American/black, Puerto Rican, Hispanic, and Asian students from New York State with this grant.*

**Award amount:** \$50,000, awarded \$5,000 per period (1-4) plus intersession and \$6,250 per period (5-8)

**Eligibility Requirements**

- Applicants must submit a completed application along with:
  - Government issued ID showing proof of residence in New York State
  - A letter of recommendation from a member of the New York State Black, Puerto Rican, Hispanic and Asian Legislative Caucus

**SIBLING/SPOUSE GRANT**

*AUA and AICASA are pleased to offer a grant to siblings or a spouse who are enrolled concurrently in a full-time program at AUACOM or AICASA. In order to qualify for the grant, all siblings or spouses must be enrolled full-time for each period of eligibility.*

**Award Amount:** 20% tuition discount on the lowest tuition of one sibling or spouse; or 10% for each sibling or spouse when tuition is the same

### **Eligibility Requirements**

- For siblings: a copy of your birth certificates or other legal documentation showing you have the same parent
- For spouses: a copy of your marriage certificate, legal civil union, or registered domestic partnership at the time of the qualifying partner's acceptance to AUACOM or AICASA; couples who are legally joined after matriculation are not eligible
- Siblings or spouses may be enrolled in separately in AUACOM and AICASA to qualify for this grant

### **International UK Grant**

*AUA is proud to offer the International UK Grant to students from the United Kingdom who join AUA via the International Track.*

#### **Award Amount**

\$55,000, awarded \$5,500 per payment period (1-4) plus intersession and \$6,875 per payment period (5-8)

#### **Eligibility Requirements**

- Must be a citizen or permanent resident of the United Kingdom upon acceptance to AUA's International Track
- However, if a qualifying applicant has First Class Honours and Second Class Honours, First Division, he or she will receive an additional \$10,000, for a grand total of \$65,000

## **CONTINUING ELIGIBILITY REQUIREMENTS**

### *Cultural or Service Grants*

- Cultural and service awards do not have continuing eligibility requirements, and will be automatically renewed each payment period for as long as the student remains enrolled
- If the student fails a class, he or she will receive an additional grant allotment, as listed in the award amount, for the retaken class, in addition to the failed class
- Students receiving the Antiguan Tuition Grant and the Montserrat Tuition Grant, or who have been awarded a grant from the Antiguan Ministry of Education, must sign a grant contract. Students are allowed a one-time continuation to repeat a semester, but will lose the grant for any further repeats. Further details are outlined in the grant contract.

### *Academic Scholarships*

- Students must earn a High Pass grade or higher each semester during the Preclinical Sciences for continued eligibility.



- For those graded annually - Preclinical Sciences grades are assessed twice: first upon completion of Med 2, then again upon completion of Med 4, and finally at the conclusion of BSIC. Continuing scholarship eligibility will be assessed only at those times. If the student fails a class before a grade is officially assigned, he or she will receive an additional scholarship allotment, as listed in the award amount, for the retaken class, in addition to the failed class.
- For those graded by semester – Preclinical Sciences grades are assessed each semester. Continuing scholarship eligibility will be assessed each semester.
- If eligibility is lost, it can be regained if the student earns a High Pass or higher for the next assigned grade; or a Pass grade for BSIC.

## ORGANIZATION, CONTROL & ADMINISTRATION

### LEGAL ORGANIZATION AND CONTROL

American University of Antigua is a corporation duly authorized and existing under the laws of Antigua and Barbuda. It is owned and operated by Manipal Education Americas, LLC, a New York limited liability company.

### OFFICERS AND DIRECTORS

**Neal Simon**, President and Director

**Seetharaman Vaitheeswaran**, Director

**Dr. Ranjan Pai**, Director

**Anand Ramabhadran**, Chief Executive Officer

**Prabhu Marudheri**, Chief Operations Officer and Chief Financial Officer

**Leonard A. Sclafani, Esq.**, Sr. V.P., and General Counsel

**Vernon Solomon**, V.P. for Administration and Community Affairs

**Craig Hauser**, V.P. for Academic Administration

**Trinae Mack**, V.P. for Human Resources

**Andrew Starr**, V.P. Student Financial Services

**Kelley Taptich**, V.P. Student Acquisition

### UNIVERSITY ADMINISTRATORS

Peter Bell, MD	Provost College of Medicine & V.P. for Global Medical Education
David Graham, MB., ChB., MBA	Executive Dean of Preclinical Sciences
Matthew Hogan, MD	Dean Clinical Sciences
Ludmilla Rubinshteyn	Associate Dean Student Development
Dwayne Hunt, PhD	Senior Associate Dean of Student Affairs
Namrata Chhabra	Associate Dean of Academic Affairs
Bharati Balachandran, PhD	Associate Dean of Faculty Affairs
Karron James, PhD	Associate Dean of Curriculum
Leslie Walwyn, MBBS, MPH	Associate Dean of Global Health
Jobila Sy, PhD	Associate Dean for Academic Success
Larry McCollum	A.V. P of Systems & Programming
Melissa Morell	A.V. P of Registrar and Clinical Administration
Mamta Purbey	A.V.P. Student Acquisition
Jessica Ferron	Director of Graduate Affairs
Anita O'Brien	Director of Special Projects
Stanley Jean-Louis	Manager of Financial Aid

## FACULTY

## PRE-CLINICAL SCIENCES

## FACULTY

## DEPARTMENT

	ADMINISTRATION
Graham, David, MB., ChB., MBA	Executive Dean, Preclinical Sciences
Solomon, Vernon, LRCP, MSc	VP for Administration & Community outreach Director – Emergency Medicine Training Center
Hunt, Dwayne, PhD	Senior Associate Dean of Student Affairs
Namrata Chhabra MBBS, MD	Associate Dean of Academic Affairs
Jobila Sy EdD	Associate Dean of Academic success
Balachandran, Bharati, PhD, MSHPEd	Associate Dean of Faculty Affairs
Walwyn, Leslie, MBBS, MPH	Associate Dean of Global Health
James, Karron, PhD	Associate Dean of Curriculum, Chair, Curriculum Committee
Fernandez, Neville, MD, MS	Director Examination Center, Chief Campus Proctor, Professor
	ANATOMY
Viswanath, Srikanteswara, MBBS, MS	Professor & Chair
D'Costa, Sujatha, MSc. PhD	Professor
Bhargavi, Chandana, MBBS, MD,	Associate Professor
Omole, Adekunle, MBChB, PGDE, MSc,	Associate Professor
Surendran, Sudarshan, PhD, MSc., BSc.	Associate Professor
Ramos, Amith, PhD, MSc.	Associate Professor
Ganesan, Shyamala, MSc. MBBS	Assistant Professor
Joshua, Samuel, PhD, BPT, MSc.	Assistant Professor
Colucci, Samantha, MD	Assistant Professor
Joy, Teresa, MSc. PhD	Assistant Professor
Rajput, Amruta, PhD, B.A.M.S. MSc	Assistant Professor
Dsouza, Melanie, MSc.	Instructor
Bhat, Ashwini, MSc.	Instructor
	PATHOPHYSIOLOGY
Agnihotri, Smirti, MBBS, MD	Professor & Co-Chair
Millis, Richard, PhD	Professor
Glasser, Steve, PhD	Professor

Agnihotri, Arun, MBBS,MD	Professor
Brahmaiah-Chari K. R. MBBS, MD	Associate Professor
Dalmeida, Deborah, MBBS, MD	Associate Professor & Co-Chair
Rajput, Ravindrasingh, MBBS, MD *ph	Associate Professor
Devaraju,Sumanth, MBBS, MD #pa	Associate Professor
Kadur, Kishan, MBBS, MD	Associate Professor
Chandanathil, Merin, PhD	Associate Professor
Rajendran S, Raja Parthiban	Associate Professor
Gonsalves, James, PhD, MSc. BSc.	Associate Professor
Naik, Sheetal, MBBS, MD	Assistant Professor
Nwachukwu, Fidelis, B.MLS, MD *ph	Assistant Professor
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Tzivion, Guri, PhD	Professor
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Sebastian, Roopa, PhD	Assistant Professor
Barik, Bijay, PhD	Assistant Professor
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Honnaavar, Prasanna, PhD	Assistant Professor
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Jillwin, Joseph, PhD	Assistant Professor
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Durgaprasad, Sapalya, MD	Professor
Bose, Ujjal, PhD, MSc.	Associate Professor
Anand, Nikhilesh, MBBS, MD	Assistant Professor

Sontakke, Sumit, MD	Assistant Professor
Morcos, Hani, MD, PhD	Chair, Professor
Durgaprasad, Sapalya, MBBS, MD	Professor
Anand, Nikhilesh, MBBS, MD	Assistant Professor
Sontakke, Sumit, MBBS, MD	Assistant Professor
	BEHAVIORAL SCIENCES
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Kastuk, Don, PhD	Professor
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Ngorosha, Trevor, PhD	Assistant Professor & Deputy Chair/ CN Coordinator
Vaughans, Andrea, MD	Assistant Professor
Lindsay, Vernon, PhD	Assistant Professor
Tjiparuro, Petjiuaje, MD, MPH, PGCME, BSc.	Assistant Professor
Modise, Stephen, MD, PGCME	Assistant Professor
Hazzard, Andrea PhD	Assistant Professor
Philip, Sherida, MD,	Assistant Professor
Bhagwandin, Lennon, MED, MS, PGCE	Instructor/Academic Advisor
Kormoi, Shade', MD	Instructor
Simpson, Zaphir, MD	Instructor
Kayalackaykom, Tarron MD	Instructor
Tiwari, Arianne, MD	Instructor
Ngorosha, Loveness, MSc.	Instructor
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Mysore, Nagaraj, MD	Professor
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Eli, Tumba, Tshibwabwa, MD, MMED, PhD	Professor
Kannavar, Sudha, MD Obgyn, ECFMG, CRM	Professor

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Mansoor, Edmond, MBBS	Associate Professor
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Williams, Kasim, MD	Assistant Professor
Herrera, Jovita, MD	Assistant Professor
Lewis, Courtney, MD	Assistant Professor / Coordinator - Simulation Labs
Makinde, Helen, MD	Assistant Professor
Kapoor, Parul, MBBS, MD	Assistant Professor
Lakshmipathi, Kamarsu, MBBS	Instructor
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Simisola Afolabi	Fellow
Lisa Persaud	Fellow
Olamide Awodu	Fellow
Aaron Mbwabi	Fellow
Rohith Basavaswaran	Fellow
Sun-Young Kim	Fellow
Ganga Pratiek	Fellow
Leon Ronoh	Fellow
Kristen Soberay	Fellow
Darren Williams	Fellow
Jenée Joseph	Fellow
Michlene Zouetr	Fellow
Ashlyn Augustine	Fellow
Winnie Gikunda	Fellow
Hannan Osman	Fellow
Richard Karanja	Fellow
Eria Muwanguzi	Fellow
Anyia Okorie	Fellow
Keston Rattan	Fellow
	ADDITIONAL FACILITATOR GROUP
Joseph Chungath	
Cascelia Bellot	

## CLINICAL SCIENCES

## FACULTY

## SPECIALTY

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Lyudmila Rubinshteyn, MD	Associate Dean Student Development, Clinical Sciences
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Pankaj Patel, MD	Clinical Co-Chair, Psychiatry
John Riggs, MD	Clinical Chair, OB-GYN
Teresa Lemma, MD	Clinical Co-Chair, Pediatrics
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William Lois, MD	Clinical Co-Chair, Surgery
Mark Adler, MD	Clinical Chair, Internal Medicine
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Qunoot Almecci, MS	Faculty
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Dr. Daniel J.E. Cunningham	Adjunct Professor for Clinical Medicine
Dr. Azuka Stephen Itabor	Adjunct Professor for Clinical Medicine
Dr. Claire Nadler	Adjunct Professor for Clinical Medicine
Dr. Melissa Roberts	Adjunct Professor for Clinical Medicine
Dr. Nancy Colón Sapio	Adjunct Professor for Clinical Medicine
Megan McMullan, MD	Adjunct Professor for Clinical Medicine
John Petrillo, DO	Adjunct Professor for Clinical Medicine
Kristin Crouse, DO	Adjunct Professor for Clinical Medicine
Bridget Foy, DO	Adjunct Professor for Clinical Medicine
Mark Josefski, MD	Adjunct Professor for Clinical Medicine
Wesley Ho, MD	Adjunct Professor for Clinical Medicine
Aimee Smith, DO	Adjunct Professor for Clinical Medicine

Marta Sanchez, MD	Adjunct Professor for Clinical Medicine
Jincy Cherian, DO	Adjunct Professor for Clinical Medicine
Marjorie Affel, MD	Adjunct Professor for Clinical Medicine
Jonas Telson, MD	Adjunct Professor for Clinical Medicine
Francis Chabot, MD	Adjunct Professor for Clinical Medicine
Mark Warfel, DO	Adjunct Professor for Clinical Medicine
Leo Sullivan, MD	Adjunct Professor for Clinical Medicine
Julie Betro Shkane, DO	Adjunct Professor for Clinical Medicine
Rebecca LaValley, MD	Adjunct Professor for Clinical Medicine
Vishal Vakani, MD	Adjunct Professor for Clinical Medicine
Nay Linn Aung, MD	Adjunct Professor for Clinical Medicine
Hoang Nhu Hua, MD	Adjunct Professor for Clinical Medicine
Munir Affaf, MD	Adjunct Professor for Clinical Medicine
Andrea Finocchiaro, DO	Adjunct Professor for Clinical Medicine
Sonia A. Velez, MD, JD	Adjunct Professor for Clinical Medicine
Rodika Coloka-Kump, DO	Adjunct Professor for Clinical Medicine
Fadi Sayegh, MD	Adjunct Professor for Clinical Medicine
Shadi Sayegh, MD	Adjunct Professor for Clinical Medicine
Osama Sayegh, MD	Adjunct Professor for Clinical Medicine
Ugochukwu Ukonu, DO	Adjunct Professor for Clinical Medicine
Jennifer Ringstad, MD	Adjunct Professor for Clinical Medicine
Patricia Meyer, MD	Adjunct Professor for Clinical Medicine
Debra Lynn Gerson, MD	Adjunct Professor for Clinical Medicine
Michael Menla, MD	Adjunct Professor for Clinical Medicine
Paul Rich, MD	Adjunct Professor for Clinical Medicine
Roman Davidenko, MD	Adjunct Professor for Clinical Medicine
Benjamin McLaughlin, DO	Adjunct Professor for Clinical Medicine
Joel Panthappattu, MD	Adjunct Professor for Clinical Medicine
Steven Swain, MD	Adjunct Professor for Clinical Medicine
Daniel Miller, MD	Adjunct Professor for Clinical Medicine
Tolga Icli, MD	Adjunct Professor for Clinical Medicine
Szymon Krzyzanowski, MD	Adjunct Professor for Clinical Medicine
Mohammad Momen, MD	Adjunct Professor for Clinical Medicine
Samuel Sandowski, MD	Adjunct Professor for Clinical Medicine
Scott Ippolito, MD	Adjunct Professor for Clinical Medicine
Mark Maloof, DO	Adjunct Professor for Clinical Medicine
Paul Moglia, PhD	Adjunct Professor for Clinical Medicine
Mary Ellis, MD	Adjunct Professor for Clinical Medicine



Anubhav Agarwal, MD	Adjunct Professor for Clinical Medicine
Nelson Giraldo, MD	Adjunct Professor for Clinical Medicine
Emad Hanna, MD	Adjunct Professor for Clinical Medicine
Russell Porter, MD	Adjunct Professor for Clinical Medicine
Linda Roethel, MD	Adjunct Professor for Clinical Medicine
Joyce Robert, MD	Adjunct Professor for Clinical Medicine
Dr. Minéké E. Etienne	Adjunct Professor for Clinical Medicine
Luis Del Prado Rodriguez, MD	Adjunct Professor for Clinical Medicine
Hamed Shalika, MD, FAAFP	Adjunct Professor for Clinical Medicine
Jhoette Dumlao, MD	Adjunct Professor for Clinical Medicine
Sabah Ahmed, MD	Adjunct Professor for Clinical Medicine
Jazma Phelps, DO	Adjunct Professor for Clinical Medicine
Jose Velasquez, MD	Adjunct Professor for Clinical Medicine
	PSYCHIATRY
Katherine Smith, MD	Adjunct Professor for Clinical Medicine
Suresh Sabbenahalli, MD	Adjunct Professor for Clinical Medicine
Guy E. Brannon, MD	Adjunct Professor for Clinical Medicine
Janice Wilson Hollier, MD	Adjunct Professor for Clinical Medicine
Kathryn Kay Kennedy, MD	Adjunct Professor for Clinical Medicine
Daniel J. Feeney, MD	Adjunct Professor for Clinical Medicine
Olufemi Ogundeji, MD	Adjunct Professor for Clinical Medicine
Benjamin Parker Jones, MD	Adjunct Professor for Clinical Medicine
Kimberly Loveless, MD	Adjunct Professor for Clinical Medicine
Rebecca Pistorius, MD	Adjunct Professor for Clinical Medicine
John Wagner, MD	Adjunct Professor for Clinical Medicine
Swathi Parvataneni, MD	Adjunct Professor for Clinical Medicine
Ayodeji I. Jolayemi, MD	Adjunct Professor for Clinical Medicine
Cynthia Ko, MD	Adjunct Professor for Clinical Medicine
Adesanmi Ojo, MD, MBA	Adjunct Professor for Clinical Medicine
Tolulope Abidemi Olupona, MD	Adjunct Professor for Clinical Medicine
Janna Volkov, MD	Adjunct Professor for Clinical Medicine
Benjamin A. Adewale MD	Adjunct Professor for Clinical Medicine
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