

2019-2020

COURSE CATALOG

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UMHS
UNIVERSITY OF MEDICINE
AND HEALTH SCIENCES

WELCOME TO UMHS!

Welcome to the University of Medicine and Health Sciences, and congratulations on taking the next step toward your dream of becoming a doctor.

At UMHS, we are dedicated to your success. This catalog is an important tool that can be used for planning your future at our medical school. It contains valuable information on everything from courses and curriculum, faculty, licensure, our policies, and more. Please read this guide carefully and don't hesitate to reach out to us with any questions you may have. We look forward to helping you succeed on your journey to earn your M.D. and beyond.

PURPOSE OF THE INSTITUTION

OUR MISSION

The University of Medicine and Health Sciences is committed to educating uniquely skilled and diverse medical professionals eager to meet the need for physicians in various settings throughout the United States and the world. With a focus on quality patient care, and utilizing the latest in advanced technological instruction and personalized education, our aim is to produce genuinely passionate physicians who are highly prepared for practice in a changing medical landscape.

OUR VISION

Our vision is to continue to be a vanguard among alternative medical schools. We will provide a safe, modern environment conducive to helping promising medical students achieve their dreams of becoming doctors—who not only become professionals, but lead their professions through excellence.

OUR APPROACH

Our approach to medical education is unique. We combine top-quality faculty, primarily from the U.S. and Canada, with a personalized approach to educating students. We offer leading-edge facilities to give our students the best training, yielding doctors who perform well on the United States Medical Licensing Examination (USMLE) and earn highly sought-after residencies in the U.S. and Canada.

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ACADEMIC CALENDAR

WINTER 2019 TERM (JANUARY – APRIL 2019)

TUESDAY, JANUARY 8

Registration Confirmation, fifth Semester, Maine

WEDNESDAY, JANUARY 9

Orientation and Classes Begin, Semester, Maine

Last Day to Arrive and/or Confirm Registration, Maine

WEDNESDAY, JANUARY 9 – THURSDAY, JANUARY 10

New Student Orientation and Registration Confirmation,
Basic Sciences, St. Kitts

THURSDAY, JANUARY 10, FRIDAY, JANUARY 11, AND SUNDAY, JANUARY 13

Continuing Student Registration Confirmation, Basic Sciences, St. Kitts

MONDAY, JANUARY 14

Classes Begin, Basic Sciences, St. Kitts

Late Arrival and/or Registration Confirmation (Fee: \$50.00 U.S. per day)

FRIDAY, JANUARY 18

Last Day to Arrive and/or Confirm Registration, St. Kitts

SATURDAY, JANUARY 19

White Coat Ceremony, St. Kitts

FRIDAY, APRIL 19 – WEDNESDAY, MAY 8

Student Portal Pre-Registration and Confirmation Appointment Requests
Open for Spring 2019 Term, St. Kitts and Maine

FRIDAY, APRIL 26

Last Day of Final Exams/End of Semester, St. Kitts and Maine

SPRING 2019 TERM (MAY–AUGUST 2019)

TUESDAY, MAY 7

Registration Confirmation, fifth semester, Maine

WEDNESDAY, MAY 8

Orientation and Classes begin, semester, Maine

Last Day to Arrive and/or Confirm Registration, Maine

WEDNESDAY, MAY 8 – THURSDAY, MAY 9

New Student Orientation and Registration Confirmation,
Basic Sciences, St. Kitts

THURSDAY, MAY 9, FRIDAY, MAY 10, AND SUNDAY, MAY 12

Continuing Student Registration Confirmation, Basic Sciences, St. Kitts

MONDAY, MAY 13

Classes Begin, Basic Sciences, St. Kitts

Late Arrival and/or Registration Confirmation (Fee: \$50.00 U.S. per day)

FRIDAY, MAY 17

Last Day to Arrive and/or Confirm Registration, St. Kitts

SATURDAY, MAY 18

White Coat Ceremony, St. Kitts

FRIDAY AUGUST, 16 – WEDNESDAY, SEPTEMBER 4

Student Portal Pre-Registration and Confirmation Appointment Requests
Open for Fall 2019 Term, St. Kitts and Maine

FRIDAY, AUGUST 23

Last Day of Final Exams/End of Semester, St. Kitts and Maine

FALL 2019 TERM (SEPTEMBER – DECEMBER 2019)

TUESDAY, SEPTEMBER 3

Registration Confirmation, fifth semester, Maine

WEDNESDAY, SEPTEMBER 4

Orientation and Classes Begin, fifth semester, Maine

Last Day to Arrive and/or Confirm Registration, Maine

TUESDAY, SEPTEMBER 3 – WEDNESDAY, SEP 4

New Student Orientation and Registration Confirmation,
Basic Sciences, St. Kitts

THURSDAY, SEPTEMBER 5, FRIDAY, SEPTEMBER 6, AND SUNDAY, SEPTEMBER 8

Continuing Student Orientation and Registration Confirmation,
Basic Sciences, St. Kitts

MONDAY, SEPTEMBER 9

Classes Begin, Basic Sciences, St. Kitts

Late Arrival and/or Registration Confirmation (Fee: \$50.00 U.S. per day)

FRIDAY, SEPTEMBER 13

Last Day to Arrive and/or Confirm Registration

SATURDAY, SEPTEMBER 14

White Coat Ceremony, St. Kitts

THURSDAY, SEPTEMBER 19

Independence Day, Campus Closed, St. Kitts

FRIDAY, DECEMBER 13 – WEDNESDAY, JANUARY 8

Student Portal Pre-Registration and Confirmation Appointment Requests
Open for Winter 2020 Term, St. Kitts and Maine

FRIDAY, DECEMBER 20

Last Day of Final Exams/End of Semester, St. Kitts and Maine

WINTER 2020 TERM (JANUARY – APRIL 2020)

TUESDAY, JANUARY 7

Registration Confirmation, fifth semester, Maine

WEDNESDAY, JANUARY 8

Orientation and Classes begin, fifth semester, Maine

Last Day to Arrive and/or Confirm Registration, Maine

WEDNESDAY, JANUARY 8 – THURSDAY, JANUARY 9

New Student Orientation and Registration Confirmation,

Basic Sciences, St. Kitts

THURSDAY, JANUARY 9, FRIDAY, JANUARY 10, AND SUNDAY, JANUARY 12

Continuing Student Registration Confirmation, Basic Sciences, St. Kitts

MONDAY, JANUARY 13

Classes Begin, Basic Sciences, St. Kitts

Late Arrival and/or Registration Confirmation (Fee: \$50.00 U.S. per day)

FRIDAY, JANUARY 17

Last Day to Arrive and/or Confirm Registration, St. Kitts

SATURDAY, JANUARY 18

White Coat Ceremony, St. Kitts

FRIDAY, APRIL 17 – WEDNESDAY, MAY 6

Student Portal Pre-Registration and Confirmation Appointment Requests
Open for Spring 2020 Term, St. Kitts and Maine

FRIDAY, APRIL 24

Last Day of Final Exams/End of Semester, St. Kitts and Maine

SPRING 2020 TERM (MAY – AUGUST 2020)

TUESDAY, MAY 5

Registration Confirmation, fifth semester, Maine

WEDNESDAY, MAY 6

Orientation and Classes Begin, fifth semester, Maine

Last Day to Arrive and/or Confirm Registration, Maine

WEDNESDAY, MAY 6 – THURSDAY, MAY 7

New Student Orientation and Registration Confirmation,

Basic Sciences, St. Kitts

THURSDAY, MAY 7, FRIDAY, MAY 8, AND SUNDAY, MAY 10

Continuing Student Registration Confirmation, Basic Sciences, St. Kitts

MONDAY, MAY 11

Classes Begin, Basic Sciences, St. Kitts

Late Arrival and/or Registration Confirmation (Fee: \$50.00 U.S. per day)

FRIDAY, MAY 15

Last Day to Arrive and/or Confirm Registration, St. Kitts

SATURDAY, MAY 16

White Coat Ceremony, St. Kitts

FRIDAY, AUGUST 14 – WEDNESDAY, SEPTEMBER 2

Student Portal Pre-Registration and Confirmation Appointment Requests
Open for Fall 2020 Term, St. Kitts and Maine

FRIDAY, AUGUST 21

Last Day of Final Exams/End of Semester, St. Kitts and Maine

FALL 2020 TERM (SEPTEMBER – DECEMBER 2020)

TUESDAY, SEPTEMBER 1

Registration Confirmation, fifth semester, Maine

WEDNESDAY, SEPTEMBER 2

Orientation and Classes Begin, fifth semester, Maine

Last Day to Arrive and/or Confirm Registration, Maine

TUESDAY, SEPTEMBER 1 – WEDNESDAY, SEPTEMBER 2

New Student Orientation and Registration Confirmation,

Basic Sciences, St. Kitts

THURSDAY, SEPTEMBER 3, FRIDAY, SEPTEMBER 4, AND SUNDAY, SEPTEMBER 6

Continuing Student Orientation and Registration Confirmation,

Basic Sciences, St. Kitts

MONDAY, SEPTEMBER 7

Classes Begin, Basic Sciences, St. Kitts

Late Arrival and/or Registration Confirmation (Fee: \$50.00 U.S. per day)

FRIDAY, SEPTEMBER 11

Last Day to Arrive and/or Confirm Registration

SATURDAY, SEPTEMBER 12

White Coat Ceremony, St. Kitts

SATURDAY, SEPTEMBER 19

Independence Day, Campus Closed, St. Kitts

FRIDAY, DECEMBER 11 – WEDNESDAY, JANUARY 6

Student Portal Pre-Registration and Confirmation Appointment Requests
Open for Winter 2021 Term, St. Kitts and Maine

FRIDAY, DECEMBER 18

Last Day of Final Exams/End of Semester, St. Kitts and Maine

ACADEMICS

CURRICULUM

BASIC SCIENCE CURRICULUM

SEMESTER	DEPARTMENT	COURSE NO.	COURSE NAME	CREDITS	TOTAL
1	MANT	0603	Gross and Developmental Anatomy	11	
1	MANT	0620	Histology	5	
1	MBIO	0650	Cell and Molecular Biology	6	
1	MICM	0940	Medical Ethics	1	
1	MICM	0660	Physical Diagnosis	2	25
2	MBIO	0760	Biochemistry	7	
2	MBEH	0711	Physiology	10	
2	MMCR	0770	Genetics	3	
2	MBEH	0920	Biostatistics and Epidemiology	2	
2	MMCR	0823	Immunology	2	24
3	MBEH	0830	Behavioral Sciences	5	
3	MNEU	0810	Neuroscience/Neuroanatomy	7	
3	MPAT	0800	Pathology I	9	
3	MMCR	0822	Microbiology	5	26
4	MPHM	0910	Pharmacology and Therapeutics	7	
4	MPAT	0900	Pathology II	12	
4	MICM	0930	Introduction to Clinical Medicine I	6	25

Curriculum as of January 2018. Subject to change. For the most current version of our curriculum and course descriptions, visit umhs.org/bsp.

EXTENDED BASIC SCIENCE CURRICULUM

SEMESTER	DEPARTMENT	COURSE NO.	COURSE NAME	CREDITS	TOTAL
1	MANT	0603	Gross and Developmental Anatomy	11	
1	MICM	0940	Medical Ethics	1	
1	MBIO	0650	Cell and Molecular Biology	6	
1	MICM	0660	Physical Diagnosis	2	20
2	MBIO	0760	Biochemistry	7	
2	MMCR	0823	Immunology	2	
2	MANT	0620	Histology	5	
2	MBIO	0770	Genetics	3	17
3	MMCR	0822	Microbiology	5	
3	MPHY	0711	Physiology	10	
3	MBEH	0920	Biostatistics and Epidemiology	2	17
4	MNEU	0810	Neuroscience/Neuroanatomy	7	
4	MPAT	0800	Pathology I	9	
4	MBEH	0830	Behavioral Sciences	5	21
5	MPAT	0900	Pathology II	12	
5	MPHM	0910	Pharmacology and Therapeutics	7	
5	MICM	0930	Introduction to Clinical Medicine I	6	25

Curriculum as of January 2018. Subject to change. For the most current version of our curriculum and course descriptions, visit umhs.org/ebs.

BASIC SCIENCE PROGRAM

The Basic Science Program, which consists of semesters one through four, is held at UMHS' state-of-the-art campus, located on the exotic Caribbean Island of St. Kitts. We offer a traditional medical school curriculum modeled after schools in the United States. The curriculum utilizes problem-based learning, with an emphasis on clinical correlations, and a thorough understanding of the basic biomedical sciences. Students are introduced to history-taking, physical exam skills, and problem-solving techniques beginning in their first semester. Our Basic Science faculty are highly credentialed and recruited primarily from the United States. Here, student success is of paramount importance, so we maintain a low student-to-faculty ratio to ensure students receive a quality education.

CLINICAL SETTINGS

A compelling differentiator at UMHS is our students' access to a variety of clinical settings. Not only are students involved at community health centers, local hospitals, and with professional patients, but they also have access to our virtual hospital ward on the St. Kitts campus. Students have access to the simulation lab throughout the Basic Science Program, where it is utilized during the Physical Diagnosis, Physiology, and Introduction to Clinical Medicine courses. In the lab, students work with cutting-edge human simulators in a 24-bed hospital ward setting to integrate the lessons of the Basic Science Program in a clinically relevant manner. Very few schools in the United States or the Caribbean have simulation centers that can compare to the UMHS facility.

EXAMINATIONS

During the Basic Science Program at UMHS, students take comprehensive block examinations at various points throughout each semester. UMHS has also incorporated the NBME shelf examinations into the academic program—these are the same examinations that U.S. medical students take. Shelf examinations are made up of questions that are similar in style and content to those questions on the United States Medical Licensing Exam (USMLE). As a result, throughout the Basic Science Program, students are preparing for Step 1 of the USMLE.

NBME shelf examinations are typically given as final exams at the end of each semester. Students are provided with a complete analysis of each exam, which shows both their strengths and weaknesses, as well as how they compare to their counterparts in U.S. medical schools.

UMHS uses ExamSoft to administer examinations. Please visit <https://ei.examsoft.com/GKWeb/login/umhssk> to learn more about the minimum system requirements needed to run ExamSoft on your computer.

LAPTOP COMPUTERS/ WIRELESS CAMPUS

High-speed wireless internet access is available throughout the entire campus. All students are required to bring a laptop computer to class. Students can access faculty PowerPoint lectures, class notes, course objectives, and curriculum from anywhere on campus or from home via remote login. The UMHS Learning Management System (LMS) can be accessed by students both in St. Kitts and the United States. Following the U.S. standard, UMHS provides students with a digitally enhanced database of histology and pathology images to be used throughout both courses.

Visit <https://www.umhs-sk.org/index.php/accepted-students/laptop-computers> to learn more about laptop and tablet requirements.

BASIC SCIENCE CURRICULUM AND OBJECTIVES

SEMESTER 1

COURSE	CREDITS
Gross and Developmental Anatomy	11 Credits
Histology	5 Credits
Cell and Molecular Biology	6 Credits
Medical Ethics	1 Credits
Physical Diagnosis	2 Credits
TOTAL	25 Credits

MANT 0603 **Gross and Developmental Anatomy** **11 credits**

Anatomy focuses on the gross structure of organs and their function, and through clinical correlations, relates each to clinical medicine. An Anatomical Learning Resource Center has been established to utilize computer-based instruction, anatomical models, and radiographic materials, as well as supervised laboratory sessions focused on dissecting various parts of the human body. Students study the structure and function of all organs with some interaction with cellular structure. This course incorporates an understanding of how embryological processes give rise to the mature body form. When this course is complete, each student will have extensive knowledge of the gross anatomy and development of the entire human body as it relates clinically to the practice of medicine.

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Identify anatomical structures by their location, dimensions, relationship to other structures, surface projections, and functions.
2. Identify the nerve supply of anatomical structures.
3. Identify the vascular supply of anatomical structures.
4. Describe the relationship between morphology and function.
5. Describe the embryological development of the adult structures.
6. Apply anatomical knowledge to clinical scenarios.

MANT 0620 **Histology** **5 credits**

This course centers on the study of the microscopic structure of normal human cells, tissues, and organs. Virtual microscopy is used to study the structure of basic tissue types and their integration into organs and organ systems. The lectures correlate microscopic and gross anatomy with basic histophysiology and function of organ systems. Upon completion of the course, the student must be able to identify and describe the function of cells, tissues, structures, and organs of the human body presented via lecture and digital imagery. Students must complete specific performance objectives, which accompany individual lecture segments, and, where appropriate, be able to integrate histology with other classes of the curriculum.

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Describe the microscopic structure of the organ systems.
2. Relate system structure to its basic physiological function.
3. Identify structures on micrographs, noting the information revealed by various staining techniques.
4. Relate basic histopathology to the etiology of disease states.
5. Correlate microscopic tissue structure with Cell and Molecular Biology and Gross and Developmental Anatomy.

MBIO 0650
Cell and Molecular Biology
6 credits

This course develops the necessary understanding of how the cell functions at the cellular, organelle, and molecular levels. Students are exposed to a wide variety of topics, such as cell structures and their functions, membrane transport, signal transduction, DNA replication and repair, transcription, translation, regulation of gene expression, cancer, and molecular biology techniques.

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Identify the basic structures and functional components of proteins, nucleic acids, lipids, and carbohydrates, and understand how these macromolecules function within a living cell.
2. Identify cellular structures in cellular schematics and electron micrograph images, interpret these structures and organelles with respect to their function, and apply that knowledge to the molecular basis of human disease.
3. Demonstrate comprehension of DNA structure, replication, packaging, rearrangement, and exchange, as well as of the processes of transcription and translation. Explain how gene expression, epigenetic mechanisms, and replication are involved in human health and disease.
4. Demonstrate comprehension of molecular-based techniques used in vitro and in vivo to analyze and manipulate nucleic acids and proteins, and to interpret results generated by these techniques.
5. Identify and describe membrane constituents and how they regulate membrane structure and function.
6. Demonstrate comprehension of cell signaling pathways responsible for regulating metabolism, gene expression, cell proliferation, immune response, survival and differentiation, and explain how dysregulation of these processes contribute to the development of disease in humans.
7. Demonstrate comprehension of the cell cycle (including mitosis and meiosis) and cell cycle regulation, apoptosis and differentiation, and explain how dysregulation of these processes contributes to the development of disease in humans.
8. Demonstrate understanding of the molecular basis of genomic instability, DNA damage and repair, and explain how dysregulation of these processes contributes to the development of disease in humans.
9. Demonstrate comprehension of the molecular basis of neoplasia and cancer susceptibility.
10. Utilize online resources to obtain and synthesize information essential to the process of evidence-based practice of medicine and to develop a better appreciation of abnormal molecular mechanisms involved in the origins of human disease.

MICM 0940
Medical Ethics
1 credit

This course is designed to introduce ethical, professional, and legal issues that arise in the practice of medicine. It provides an overview of the salient issues for students, tools used to recognize ethical, professional, and legal conflicts in clinical settings, and resources to critically examine and address questions and concerns these conflicts present in patient care.

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Demonstrate understanding of the four pillars of ethics and how they influence clinical practice.
2. Incorporate the USMLE rules of doctor/patient relationships in the assessment, care planning, and interventional aspects of patient care.
3. Demonstrate understanding of the AMA stance on conflict of interest, professional boundaries, informed consent, advanced directives, ethical research, and end-of-life care.
4. Incorporate guidelines of HIPAA, local laws and regulations, ethics committees, and AMA in analyzing and resolving ethical dilemmas.

MICM 0660
Introduction to Physical Diagnosis
2 credits

This course is designed to provide early exposure to clinical medicine. Students are instructed in patient interviewing and communication skills. They also receive hands-on examination skills in the musculoskeletal system using simulated and standardized patients. Additionally, clinical correlations and medical imaging are presented in conjunction with the Gross and Developmental Anatomy course. Professionalism in doctor-patient, doctor-doctor, and doctor-society interaction is stressed.

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Determine the importance of comprehensive and focused history-taking.
2. Obtain a complete medical history from the patient and or informant.
3. Identify and demonstrate various verbal and non-verbal communication skills while conducting the patient interview.
4. Recognize and demonstrate professionalism while interacting with patient, family, peers, and teachers.
5. List the various parameters of vital signs and obtain vital signs.
6. Identify the various steps in examining the cardiac, respiratory, and musculoskeletal systems.
7. Demonstrate the skills in performing the physical examination of the cardiac, respiratory, and musculoskeletal systems.

SEMESTER 2

COURSE	CREDITS
Physiology	10 Credits
Biochemistry	7 Credits
Genetics	3 Credits
Biostatistics and Epidemiology	2 Credits
Immunology	2 Credits
TOTAL	24 Credits

MPHY 0711 **Physiology** **10 credits**

This course concentrates on how the various organ systems that comprise the human body function. The major objective of this course is to enable the student to acquire a sound understanding of the mechanisms upon which life depends through an integrated study of the many control systems that maintain homeostasis. Emphasis is placed on the mechanisms that maintain a homeostasis under a variety of conditions. The course begins with a study of basic physiological principles, such as the transport of ions, intracellular signaling, osmosis, and membranes and their electrical properties. Following the presentation of the basic principles of cellular physiology (which includes muscle and nerve), cardiovascular, respiratory, renal, gastrointestinal, endocrines, and reproductive physiology are taught and integrated into total body function. Temperature regulation and the integrated physiological responses to exercise and adverse environments are also presented. Most disease conditions result from abnormal functioning (i.e., disturbance of homeostasis) of one or more of the basic control systems. Thus, it is of fundamental importance that the future physician understands the regulatory mechanisms taught in this basic medical science course. After completing the course, students will have a clear understanding of how the major systems of the body operate in an integrated fashion necessary to maintain a homeostatic state. (Prerequisites: Completion of Gross and Developmental Anatomy, Cell and Molecular Biology, and Histology)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Describe the fundamental mechanisms underlying normal function of cells, tissues, organs, and organ systems of the human body, commensurate with the requirements for a physician providing care to patients.
2. Explain the basic mechanisms of homeostasis by integrating the functions of cells, tissues, organs, and organ systems.
3. Apply knowledge of functional mechanisms and their regulation to explain the pathophysiology underlying common diseases.
4. Describe the molecular and cellular mechanisms of physiological processes that are the basis for therapeutics and drug targets that are introduced later in the curriculum.
5. Effectively solve basic problems in physiology and pathophysiology, working independently and in groups.

MBIO 0760 **Biochemistry** **7 credits**

This course focuses on the interrelationship and regulation of metabolic pathways as it pertains to understanding the mechanism of disease states. The student is prepared accordingly through a discussion of the principles of biochemistry including anabolic and catabolic reactions as permitted by the generation and use of energy. Biochemical mechanisms are utilized to justify particular signs and symptoms noted in certain clinical conditions. In so doing, a comprehensive understanding of the metabolism of proteins, carbohydrates, lipids, and other nitrogen-containing molecules is achieved. (Prerequisites: Completion or co-enrollment of Cell and Molecular Biology, and Histology)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Have a clear understanding of the subcellular organelles, various cellular proteins, and signaling mechanisms that they have studied in cell and molecular biology with the biochemical functions that go on in each cell. Students will have thorough understanding of the fundamental principles of biochemistry, especially in relation to various metabolic pathways that are important in understanding a medical disorder. Students will be able to integrate various metabolic pathways for overall understanding of the metabolic processes that go on in our cells.
2. Have a better understanding of the fates of various macro and micronutrients that we take in through our diet. Students will have better understanding of the digestion and absorption process of all these molecules, and of the abnormalities that can occur during these processes. Students will also be able to connect the role of various vitamins and mineral in the metabolic pathways, and the abnormalities that can occur when these micronutrients are deficient or in excess. This will eventually enable students to understand the treatment and monitoring of these disorders.
3. Integrate metabolic processes with clinical disorders and applied physiological aspects. This kind of integration will assist students with better understanding of physiological changes that will go on in the body, according the physiological status of the cell. Constant integration of clinical disorders is done throughout the course so that students will have better understanding of a disorder at the molecular level. This will assist students in clinical diagnosis, modes of treatment, monitoring, and prognosis of a disorder, along with helping to determine the differential diagnosis for disorders which share similar phenotype.

4. Have a better understanding of normal biochemical functions of various enzymes, which will assist them in understanding the disorder when there is abnormality in any of these enzymes. With the thorough background of enzymes and biochemical process, students will have a better understanding of rationale for using various medications in disorders affecting metabolic pathways.
5. Have sufficient exposure to all the high yield concepts and questions for their preparation towards USMLE Step 1 exam and beyond.

MBIO 0770 **Genetics** **3 credits**

This course provides a description of the human genome, including the details of DNA, gene, and chromosome structure, the basics of gene expression, and the various forms of inheritance. The overall goal is to use this knowledge to better understand the molecular mechanisms of how genetic mutations lead to the single gene and complex disorders described in the textbook case studies. Specific course topics include gene mapping and disease gene identification, the treatment of genetic disease, prenatal diagnosis, cancer genetics, and pharmacogenetics. (Prerequisite: Completion of Cell and Molecular Biology)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Understand the molecular mechanisms of how chromosomal abnormalities and genetic mutations lead to aneuploidies, genomic disorders, single gene diseases, and complex disorders.
2. Understand the strategy and technology used for gene mapping and disease gene identification.
3. Describe the current approaches for the treatment of genetic disease, including gene therapy.
4. Understand the recent advances in prenatal diagnosis, cancer genetics, and pharmacogenetics.
5. Other skills learned by the students will be evaluation of pedigrees, calculating recurrence risk, and using Hardy-Weinberg to determine mutation frequencies in populations.

MBEH 0920 **Biostatistics and Epidemiology** **2 credits**

The principles of biostatistics are introduced in this course, which emphasizes both the practice of interviewing and collecting data. The epidemiology of disease and concepts of public health and industrial medicine are also covered in this course. Finally, the course will end with discussions of broad issues related to health care delivery, health care legislation and costs, and a comparative discussion of health care systems. (Prerequisite: None)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Understand the basic concepts and principles of epidemiology.
2. Identify the basic strategies for observational and experimental studies.

3. Use the epidemiologic approach to define and measure the occurrence of disease and health in populations.
4. Identify data needs for calculating standard epidemiological measures.
5. Understand the collection of scientific data, and appropriate analysis using statistical tests and results interpretation.
6. Distinguish the roles of epidemiology and biostatistics in the prevention of disease and the improvement of health.

MMCR 0823 **Immunology** **2 credits**

This course begins with a general overview and introduction to the immune system, including a description of the cells and tissues involved with innate and adaptive immunity. This is followed by descriptions of the molecular and cellular mechanisms employed in innate immune responses, and for those used in the humoral and cell-mediated arms of adaptive immunity. This includes the details of antigen processing and presentation by antigen presenting cells and the central role of MHC molecules in this process. The maturation and selection of B and T lymphocytes and the production of the diverse antigen receptors required for lymphocyte activation are also described in detail.

The pathways of lymphocyte activation are followed by an explanation for the generation of the different effector functions and memory cells produced during a humoral or cell-mediated response. The last half of the course is focused on more clinically related topics, including tolerance and autoimmunity, transplantation and immunosuppression, immunotherapy strategies against tumors, hypersensitivity, and the consequences of congenital immunodeficiencies. The course ends with a description of the tools and assays of immune functions. (Prerequisite: Completion of or co-enrollment in Histology)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Describe the cells and tissues involved with innate and adaptive immunity.
2. Know the molecular and cellular mechanisms employed in innate immune responses, and those used in the humoral and cell-mediated arms of adaptive immunity.
3. Know the details of antigen processing and presentation by antigen presenting cells and the central role of MHC molecules in this process.
4. Understand the maturation and selection of B and T lymphocytes and how gene rearrangement generates the diverse antigen receptors required for lymphocyte activation.
5. Understand how activated lymphocytes carry out different effector functions and produce memory during a humoral or cell-mediated adaptive response.
6. Understand the clinical aspects of immunology including tolerance and autoimmunity, transplantation and immunosuppression, immunotherapy strategies against tumors, hypersensitivity reactions, and the consequences of congenital immunodeficiencies.

SEMESTER 3

COURSE	CREDITS
Pathology I	9 Credits
Neuroscience/Neuroanatomy	7 Credits
Microbiology	5 Credits
Behavioral Sciences	5 Credits
TOTAL	26 Credits

MPAT 0800 Pathology I 9 credits

This course introduces students to the cellular system of each organ and traces the morphological changes in a cell that are responsible for a disease in an organ. As cells undergo alteration, their change in function is studied in respect to its deviation from the "normal" state. Course presentation includes the response of cells, tissues and organs to disease and injury, the normal and adapted cell, degeneration and necrosis, inflammation, fluid and hemodynamic derangements, neoplasia, immunopathology, and systemic, environmental, and nutritional disease. Lecture discussions are supplemented by a study of gross and microscopic specimens.

(Prerequisites: Completion of Genetics, Biochemistry, and Physiology)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

- Understand, identify, and describe changes that happen in cell injury and adaptation. Students must be able to solve clinical problems by explaining underlying pathology.
- Define acute and chronic inflammation, identify various types of cells in inflammation, and explain the role of chemical mediators. Students must be able to analyze lab reports pertaining to inflammatory diseases.
- Describe the various types of hemodynamic disorders, identify the structural changes, and explain the underlying pathology.
- Name various benign and malignant tumors, understand the differences between benign and malignant tumors, explain the biology of tumors, correctly identify histological features, and have an overview of important cancers.
- Explain the immune basis of primary immune deficiency and autoimmune disorders, describe various changes seen in the organs affected, and be able to interpret lab reports.
- Define, explain, and draw an algorithm to explain various types of anemia. Students should be able to evaluate cases of anemia and interpret lab reports.
- Describe various types of reactive conditions associated with white cell abnormalities, discuss the various types of hematological malignancies based on pathogenesis, and be able to interpret lab investigations.
- Understand the pathogenesis of tumors involving the kidneys and prostate. Students must be able to identify histological features, interpret investigations, and explain clinical features of renal and prostate tumors.
- Identify and distinguish testicular tumors. Discuss the morphological features and clinical presentations of major testicular tumors.
- Differentiate and describe various skin disorders of immune, infectious, and neoplastic origin.
- Define, describe, and identify diseases affecting the central nervous system (CNS). Students should be able to explain the pathogenesis of various developmental, demyelinating, dementia, and tumors affecting the CNS.

MNEU 0810 Neuroscience/Neuroanatomy 7 credits

This course begins with an overview of the entire nervous system.

As the course progresses, the focus is on comprehending the basic structure and function of each level of the nervous system, integrating both the anatomy and physiology of the nervous system. The principles that underlie the anatomical structure of each system of the brain are correlated with its physiology; correlations between the functional deficits and the pathological anatomy in several neurological diseases which require working knowledge of anatomy and physiology are stressed. Special attention is given to integrating current understandings of human neurological and psychiatric diseases, and each topic is supplemented by relevant lab exercises, which include detailed brain dissection and exposure to angiograms, CT scans, MRIs, etc. (Prerequisites: Completion of Gross and Developmental Anatomy and Physiology)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

- Determine the location and type of spinal cord injuries.
- Evaluate the status of a neurological patient.
- Perform the neurological exam.
- Identify problems via neuroimaging techniques.
- Discuss site, level, and type of injury.

MMCR 0820
Microbiology
5 credits

Microbiology teaches students the basic concepts of infectious disease in a lecture and laboratory setting. The goal of the course is for students to gain a basic knowledge and understanding of microbial diagnosis of bacteria, viruses, fungi, protozoa, and parasites. The etiology, pathogenesis, and genetics of bacterial infection are key foundations to the study of microbes. Students will learn the symptoms that help in diagnosis of a patient and how these symptoms relate to disease. Prevention of disease through methods such as vaccines, hand washing, and sterilization and disinfection are stressed, as well as the treatment of infectious disease. In the laboratory, students perform the techniques needed to identify and inform treatment strategies for a variety of gram-positive and gram-negative bacteria. Case studies are used in laboratory sessions to enhance the learning experience. (Prerequisite: Completion of Histology)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Identify the common etiologic agents of the disease and determine the causative agent of the particular case from case clues.
2. Classify general characteristics regarding disease or organism, predisposing conditions, epidemiology, mechanism of pathogenicity, and major tests used in identifications.
3. Describe mechanisms of virulence and pathogenesis for microorganisms.
4. Identify the appropriate therapies, drug mechanism of action and resistance mechanisms for antimicrobials, antivirals, antifungals, and antiparasitics.

MBEH 0830
Behavioral Science
5 credits

Behavioral Science stresses the complex relationship between psychological make-up and experience by providing a knowledge base for normative and non-normative human development throughout the life cycle. The course also introduces the student to the behavioral basis of clinical medicine by focusing on common behavioral problems and the circumstances that evoke important behavioral or emotional responses. The concept of culturally competent care will be defined, and the basics of recognizing organic and functional psychological disturbances are described. Workshops on realistic clinical problems are an integral part of this course; sexual dysfunction, bereavement, suicide, and sociological disorders receive detailed attention. Additionally, the student should develop increased insight into personal functioning and feelings, and develop the skills needed to act as an empathetic and effective interviewer and behavioral change agent. (Prerequisite: None)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Describe the progression through the life cycle and recognize the major milestones from conception to death.
2. Explain the psychological and social factors influencing patient behavior, noting how those factors contribute to unhealthy behavior, disease, and compliance or resistance to treatment.
3. Describe and demonstrate patient interviewing skills, peer consultation, and interactions with the family.
4. Describe the normal processes and pathophysiology of the central and peripheral nervous systems (brain stem, brain, motor systems, and the autonomic nervous systems) as they relate to mental and emotional disorders.
5. Construct a differential diagnosis and demonstrate the ability to diagnose disorders according to the DSM-5 criteria.
6. Recognize the signs and symptoms of psychopathological disorders and describe the disorders, their signs, and symptoms using proper terminology.
7. Describe the general principles of psychotherapy and psychopharmacology, including the basic indications and contraindications.
8. Recognize the gender, ethnic, and behavioral (i.e., biopsychosocial) considerations affecting disease treatment and prevention (including psychosocial, cultural, occupational, and environmental), and construct basic interventions to improve patient compliance to treatment.

SEMESTER 4

COURSE	CREDITS
Pathology II	12 Credits
Pharmacology and Therapeutics	7 Credits
Introduction to Clinical Medicine I	6 Credits
TOTAL	25 Credits

MPAT 0900 **Pathology II** **12 credits**

Pathology II applies the basic concepts learned in Pathology I to continue the study of the pathologic basis of disease using a physiologic system, or organ-based approach. This course covers red and white cell diseases, male and female genital tracts, and kidney and liver systems. Course presentations include etiology, pathogenesis, and morphologic changes in diseases according to organ system. Appropriate use of the laboratory is stressed in the diagnosis of disease, while case presentations further emphasize the clinical aspects of the pathologic processes. (Prerequisite: Completion of Pathology I)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Describe the etiology, pathogenesis, structural and functional manifestations of disease, and have the ability to use this knowledge to solve appropriate problems.
2. Understand the biologic principles which govern changes in cells and tissues as a response to abnormal stimuli, and the functional consequences and clinical significance of morphologic changes.
3. Understand how these changes alter during the course of the medical and surgical therapy and the differential diagnosis.
4. Describe various specific changes which occur in specialized organs due to harmful pathogens and other agents.
5. Recognize disease at the gross, microscopic, and ultrastructural levels.
6. Understand the various pathological, molecular, and immunologic techniques used to reach the diagnosis.
7. Understand the dynamics of disease, and be aware of the natural course of specific disease states and the result of intervention by a physician.
8. Interpret the various pathology reports of various branches.
9. Understand how pathology as a medical specialty relates and contributes to clinical medicine.

MPHM 0910 **Pharmacology and Therapeutics** **7 credits**

This course concentrates on how chemical agents (drugs) regulate or modify physiological functions of the body, demonstrating how interactions of drugs with living organisms contribute to diagnosis, prevention, treatment, or cure of diseases. Biologic responses, physiological alterations, and correction of disorder or disease are discussed for each drug class, highlighting receptor interaction, which defines the agent's boundaries of efficacy. Because pharmacology and therapeutics is an integrated science, a strong attempt is made to maintain this integrated approach in lectures, tutorials, and case studies. Major emphasis is placed on principles of pharmacogenetics (pharmacodynamics, pharmacokinetics, adverse drug reactions, teratogenicity, etc.), as well as therapeutics of common drugs used in infectious disease, malignant diseases, and endocrine disorders. (Prerequisites: All semester 1 and 2 courses, Microbiology, Behavioral Science, and completion or co-enrollment in Pathology I)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Understand the fundamental principles of drug-receptor interactions and identify how drugs alter cellular function through the study of pharmacodynamics.
2. Determine how the body handles drugs through pharmacokinetic processes such as absorption, distribution, metabolism, elimination, dose-response relationships, half-life, steady-state concentrations, and volume of distribution, and thereby, affect therapeutic effectiveness.
3. Identify how specific patient characteristics and genetics can affect the response to a particular class of drugs.
4. Discuss the rationale behind designing different dosing regimens of particular drugs in specific patient populations.
5. Evaluate the scientific basis underlying how two different drugs can interact within the body and can have undesirable effects either on drug concentrations or drug clinical effects.

6. Identify and name the major classes of clinically important drugs which include drugs affecting the autonomic nervous system, anesthetics and analgesics, drugs to treat diseases of the cardiovascular system, drugs affecting the pulmonary system, antibiotics, drugs used to treat psychiatric disorders, drugs of abuse and drugs used to treat addiction, drugs that affect the immune system, drugs that affect the endocrine system, dietary supplements and herbal medications, antiviral drugs, and chemotherapeutic drugs used in the treatment of cancer.
7. Provide specific examples, mechanisms of action, adverse effects, contraindications, and drug interactions for each drug or class of drugs.

MICM 0930

Introduction to Clinical Medicine I

6 credits

This course is designed to introduce students to the basic skills they will need to function as effective clinicians. History-taking and physical examination skills are taught in practical classes using the latest technological media, including Laerdal patient simulators (adult, pediatric, and adolescent). The course addresses a range of clinical skills necessary for the future development as a physician, including clinical assessment and planning for the care of patients using library and computer search of evidence-based information for patient care. Didactics are blended with laboratory data, which includes interpreting radiology and other imaging techniques, as well as electrocardiography. This course introduces core medical information needed to enter the third and fourth years of clinical training. Critical emphasis is on the development of ethical standards and specialization, as well as education and licensing requirements in the various states. Class sizes are kept small to facilitate free discussion and pertinent technique demonstrations. (Prerequisites: All courses in semesters 1-3, and co-enrollment in or completion of Pathology II)

OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Obtain a complete and (where necessary) focused medical history. Students will learn the skills for proficiently conducting a medical interview with patient and/or informant, focusing on the essential components of history-taking.
2. Perform a head-to-toe physical examination. Students will develop skills for examining the various systems using checklists and skill sheets as guides.
3. Synthesize findings from the physical exam and history in developing a diagnosis and/or differential diagnosis with possible explanations and ways to rule in and rule out certain illnesses or disease processes.
4. Recommend or suggest specific lab tests or studies, such as blood/body fluid or radiological investigations, to confirm certain conditions responsible for a patient's illness.

5. Adequately document all the details of the case (considering the above four points) and submit medical "H&P" reports and SOAP notes for evaluation.
6. Exhibit professionalism. The student is expected to practice professionalism at all times while dealing with patients, their relatives, colleagues, and teachers.
7. Improve communication skills by participating in the above activities.
8. Enhance learning through teamwork and small group-based activities.
9. Facilitate learning through constructive feedback from faculty and peers.
10. Acquire the basic skills for oral presentations of "H&P" and SOAP notes.

PLEASE NOTE: Students enrolled in this program are required to complete the courses in the order listed above. Any student wishing to enroll in a course out of sequence, or without the necessary prerequisites, must formally submit a request in writing, typically by email, to the Basic Science Dean by noon local time of the Wednesday prior to the start of the semester. The student must include his or her correct email address in this request. Any requests submitted after the deadline will not be considered. All students in the process of review are responsible for attending all courses originally scheduled for that student until they are officially told otherwise in writing or by email by the Basic Science Dean. Any class absences approved during this time period will be on the student's class record and cannot be used as justification for not continuing with the course.

EXTENDED BASIC SCIENCES PROGRAM

The Extended Basic Science (EBS) Program is for entering students who wish to spread the course load of the first four semesters of the M.D. program over a five-semester period. Students accepted into the University may opt for this program up until a week after the first block exam in either their first or second semester.

The admissions committee has determined that some of those admitted will be accepted directly into the EBS program. These decisions are based upon a variety of criteria that may include overall GPA, pre-med GPA, MCAT score, passage of time between completing the basic sciences and entering into medical school, number of advanced science courses completed at the undergraduate level, and even language issues for those who speak English as a second language, or some combination of these factors.

Whether the student has voluntarily chosen the EBS Program, or the student was placed into EBS by the admissions committee, the goal of the program is to reduce the student's course load in order to ensure he or she performs well and masters the information. Students that have entered this program have traditionally excelled both academically and professionally.

Courses are taken along with students in the accelerated four-semester program to ensure that the EBS students are part of the "mainstream." As an incentive for EBS participants, the University has prorated the tuition so that the overall cost of tuition for the five-semester EBS Program is the same as the four-semester program. The only additional costs to students attending the EBS are time (an additional semester and cost of living on the island) and semester fees.

For full course descriptions, learning objectives, and prerequisites, please turn to the Basic Sciences section on page 5.

EBS SEMESTER 1

COURSE	CREDITS
Gross and Developmental Anatomy	11 Credits
Medical Ethics	1 Credits
Molecular and Cell Biology	6 Credits
Physical Diagnosis	2 Credits
TOTAL	20 Credits

EBS SEMESTER 2

COURSE	CREDITS
Biochemistry	7 Credits
Immunology	2 Credits
Histology	5 Credits
Genetics	3 Credits
TOTAL	17 Credits

EBS SEMESTER 3

COURSE	CREDITS
Microbiology	5 Credits
Physiology	10 Credits
Biostatistics and Epidemiology	2 Credits
TOTAL	17 Credits

EBS SEMESTER 4

COURSE	CREDITS
Neuroscience/Neuroanatomy	7 Credits
Pathology I	9 Credits
Behavioral Sciences	5 Credits
TOTAL	21 Credits

EBS SEMESTER 5

COURSE	CREDITS
Pathology II	12 Credits
Pharmacology and Therapeutics	7 Credits
Introduction to Clinical Medicine I	6 Credits
TOTAL	25 Credits

PLEASE NOTE THE FOLLOWING:

Those admitted to the EBS program, or opting into the program, will not be permitted to accelerate into the four-semester Basic Science Program at a later date.

- Prior to matriculation, students who choose to decelerate from the standard Basic Science Program to EBS must notify the office of admissions.
- Those who begin the four-semester program may opt into the EBS program following the completion of the first block examination either in the first or second semester, if the student's test results suggest that more time would be advantageous for successful completion of the basic sciences.
- With a reduced load, EBS students have been able to excel academically. Currently, the University has an attrition rate of 4 percent. This, in part, is directly related to the EBS program.
- Since the EBS tuition is lower than the standard tuition per semester, scholarships and loan awards will be adjusted accordingly.

CLINICAL SCIENCE PROGRAM (SEMESTERS 5–10)

The Clinical Science Program is designed to give students a broad spectrum of medical practice, training in clinical skills, and patient contact. The program consists of a fifth semester at our Maine campus, as well as core and elective rotations completed at U.S. and Canadian teaching hospitals affiliated with the University of Medicine and Health Sciences.

FIFTH SEMESTER, PORTLAND, MAINE CAMPUS

UMHS students complete their fifth semester studies at our campus in Portland, Maine. The fifth semester consists of the following required courses: Introduction to Clinical Medicine II and Biological Basis of Clinical Medicine. The UMHS facilities in Portland include the latest in simulation and technology resources. Students regularly participate in virtual clinics utilizing human simulators. Recently, the facilities have been expanded to include a learning resource center and additional examination rooms.

EXPERIENCED MAINE MEDICAL DOCTORS TEACHING IN REAL CLINICAL SETTINGS

All student clinical experiences are supervised by a team of experienced Maine physicians, many of whom have decades of both medical practice and teaching experience. Students are assigned to work alongside physicians in actual patient care settings at several hospitals, clinics, and office health centers in and around Portland. The opportunity to work beside renowned Maine physicians is designed to build a student's clinical capabilities, increase his or her confidence, and enhance his or her performance on United States Medical Licensing Examinations (USMLE).

FIFTH SEMESTER CURRICULUM

COURSE	CREDITS
Introduction to Clinical Medicine II	7 Credits
Biological Basis of Clinical Medicine	4 Credits
TOTAL	11 Credits

MICM 1010

Introduction to Clinical Medicine II

7 credits

Introduction to Clinical Medicine II is a course designed to introduce the students to the practice of medicine. The knowledge gained in the Basic Sciences will be integrated with the “art” of medicine. Students will sharpen their skills in history-taking and physical diagnosis and learn how to formulate diagnoses and appropriate treatment plans. Patient communication and professionalism will be stressed throughout the course.

The learning experience will include classroom lectures and small group sessions emphasizing clinical presentation, diagnostic work up, differential diagnoses, treatment plans, and case scenarios. Patient experiences will take place in both a virtual clinic setting and in preceptor offices with a practicing medical provider. Each week, students will spend time in the Clinical Skills Lab for further “hands-on” experiences. The above will be supplemented with additional special lectures on topics including Ethics, EKG, Pediatrics, Geriatrics, Addiction Medicine, Obstetrics, Ophthalmology, Behavior Sciences, Genetics, Surgery, Vaccines and Travel Medicine, Palliative Care, and Dermatology.

The Clinical Preceptor Program exposes some students to direct patient care by having students work in offices, hospitals, or operating rooms with physicians, physician assistants, or nurse practitioners and exposes other students to indirect patient care by having students work with pathologists and laboratory technicians. The major emphasis in this section of the ICM II course is on the content of clinical medicine and on the grasping of the meaning and awesome responsibility inherent in being a physician. Each student will keep a journal of the clinical situations and or pathology lab experiences encountered making sure to adhere to HIPAA rules.

The goal of ICM II is to prepare students to enter clinical rotations with a skill set that allows them to comfortably and successfully interact with patients. Students will be prepared to practice evidence-based medicine and achieve the six core competencies as outlined by the ACGME. Preparation for Step 1 of the USMLE will also be important during the course.

OBJECTIVES

1. Review the clinical presentations of medical illnesses while incorporating the fundamentals taught during Basic Sciences
2. Further hone communication skills in patient interactions that were taught in ICM I
3. Learn the importance of appropriate professional behavior and appearance and its significance for good patient outcomes
4. Practice efficient, focused history-taking
5. Practice efficient, focused physical exam skills
6. Learn to develop differential diagnoses based on symptoms and signs gathered from the focused history-taking and physical exam
7. Learn the use of laboratory and radiologic investigations by balancing clinical benefit with costs and harms
8. Learn cost-effective use of resources in the treatment of patients
9. Develop a plan of care integrating evidence-based, guideline-driven treatment plans
10. Learn to deliver efficient and concise patient presentations
11. Document the office visit using a focused SOAP note format
12. Practice commonly used medical procedures in a Clinical Lab setting

MICM 1020

Biological Basis of Clinical Medicine

4 credits

This clinical course is designed to fully integrate the knowledge acquired in the various basic medical sciences and pre-clinical science courses completed during the first four semesters of study in St. Kitts into a useful body of information that can be utilized to prepare the student to sit for licensure examinations (USMLE Step I). This clinical course utilizes a variety of visiting professors and faculty recruited primarily from U.S. medical schools.

CLINICAL ROTATIONS (SEMESTERS 6–10)

After passing Step 1 of the USMLE, students will be placed at our affiliated teaching hospitals throughout the United States for their core clinical rotations. This occurs under the guidance of clinical faculty and under the supervision of the Dean of Clinical Sciences.

CLINICAL OBJECTIVES

The clinical years of the UMHS curriculum aim to prepare students who have mastered the Basic Sciences into students who can deal with patients and their problems in a hospital or outpatient milieu. The Maine Fifth Semester program begins this process. Numerous new clinical skills and considerable medical knowledge must be added to that which the student has previously acquired during semesters one through four. Beginning in the fifth semester and through years three and four, the six Core Competencies will be stressed as students acquire both diagnostic and therapeutic skills. The Core Competencies are:

- Patient Care
- Medical Knowledge
- Practice-Based Learning and Improvement
- System-Based Practice
- Professionalism
- Interpersonal Skills and Communication

78-WEEK CLINICAL PROGRAM

These clinical clerkships include 48 weeks of mandatory clinical rotations, as well as 30 weeks of elective clinical rotations. The core rotations represent the primary areas of medical practice, and the elective rotations provide students with an understanding of the various specialties in medicine.

COURSE	CREDITS
Internal Medicine (MEDC 1100)	12 weeks
Surgery (SURC 1200)	12 weeks
Pediatrics (PEDC 1400)	6 weeks
Obstetrics and Gynecology (OBGC 1300)	6 weeks
Psychiatry (PSYC 1500)	6 weeks
Family Practice (FMPC 1600)	6 weeks
Electives	30 weeks
TOTAL	78 weeks

Medical knowledge is of two types – factual and conceptual. The vast amount of knowledge required and the ever-accelerating rate of discovery reinforces the notion that the practicing physician must forever be a student of medicine and a lifelong learner. This provides a framework on which to arrange rapidly changing and increasingly detailed medical information.

UMHS is committed to a competency-based curriculum. Students will be graded and receive pertinent feedback during each core rotation, which includes:

- Self-assessment of strengths and weaknesses
- Analysis
- Identification of problems

CLINICAL CURRICULUM (SEMESTERS 6–10)

MEDC 1100

Internal Medicine (12 weeks)

Students build on skills acquired in physical diagnosis to include the completion of a thorough history and physical examination of primarily adult patients. Students participate in general Internal Medicine areas, gaining exposure to the diagnostic and treatment process as it unfolds.

Students develop competence in evaluating broad clinical problems and patient management skills. Hands-on patient experience is supplemented by tutorials and didactic sessions. Lecture topics include the management of commonly encountered disease processes, as well as an introduction to the use of diagnostic procedures.

INTERNAL MEDICINE CORE EDUCATIONAL OBJECTIVES

Patient Care:

- Take a comprehensive history and perform a complete physical exam
- Formulate a differential diagnosis and therapeutic plan, employing concern for risks, benefits, and costs
- Document proficiently and timely
- Analyze and document additional clinical information, lab tests, and changes in patients' clinical status
- Demonstrate knowledge of the indications for, and the ability to interpret, standard diagnostic tests (e.g., CBC, chemistries LFTs, chest x-rays, urinalysis, EKGs)
- Demonstrate proficiency in basic procedures, such as venipuncture, insertion of intravenous lines, urinary bladder catheterization, etc.

Medical Knowledge:

- Demonstrate knowledge of the principal syndromes and illnesses in Internal Medicine, their pathophysiologies, and the various diagnostic and therapeutic options
- Ask questions – fill in the gaps

Interpersonal Communication Skills:

- Demonstrate facility in communication with patients, families, and other caregivers in a culturally competent manner
- Demonstrate comfort in dealing with people of varying racial, cultural, and religious backgrounds

Practice-Based Learning and Improvement:

- Demonstrate a regimen of independent learning through the reading of suggested basic texts, research via the internet and through other electronic resources, (e.g., UpToDate, MKSAP for students)
- Demonstrate a commitment to quality, patient safety, and self-directed improvement

Professionalism:

- Demonstrate a commitment to treating everyone – patients, families, and other caregivers — with respect
- Participate fully in the patient care team and fulfill all responsibilities in a timely fashion
- Maintain a professional appearance and demeanor
- Volunteer for needed care if patient care is understaffed

System-Based Practice:

- Demonstrate facility in working in concert with other caregivers, nutritionists, and social workers or discharge planners to obtain optimal, seamless multidisciplinary care for patients, both during the hospitalization and after discharge
- Demonstrate knowledge of the indications for various levels of care post-discharge (e.g., long-term rehabilitation, long-term skilled nursing facility care, hospice, home care, etc.)
- Demonstrate a knowledge of, and concern for, advance directives, informed consent, patient confidentiality (HIPAA), and palliative and end-of-life issues

SURC 1200

Surgery (12 weeks)

Students are introduced to disease processes which require various levels of surgical intervention. Students develop skills needed by the general physician, as well as those unique to surgery. Students further develop abilities in data synthesis and problem-solving, and become oriented to the clinical setting related to surgery. Ideally, students follow the patient from admission through discharge. Students are expected to participate in all aspects of patient care: assisting in the operating room, emergency room, and acute care units. Opportunities will be provided for direct practice of simple procedures such as suturing, debridement, and wound care. Students will be expected to observe and assist during various procedures in the operating room and participate in follow-up and treatment of the post-surgical patient, as well as in ambulatory practice settings.

SURGERY CORE EDUCATIONAL OBJECTIVES

Patient Care:

- Students will be required to record all procedures in log books and observe during the surgical rotation
 - Perform under supervision (as in fifth semester)
 - Arterial puncture for blood gas analysis and interpret results
 - Insert Foley catheter in both male and female patients
 - Placement of a nasogastric tube
 - Wound dressing changes
 - Place and remove sutures and staples
 - Endotracheal intubation
 - Observe (if available)
- Placement of thoracostomy tube and management of underwater seal drain
 - Paracentesis, thoracentesis
 - Spinal and epidural anesthesia
 - Resuscitation of a patient in shock
 - Endoscopic procedures
- Demonstrate the ability to do a proper, detailed, complete physical exam
- Demonstrate the ability to identify common surface anatomical landmarks
- Demonstrate skill specific to the following areas:
 - Outpatient clinics
 - Emergency department (E.D.)
 - Operating Room (O.R.)

Interpersonal Skills and Communication:

- Identify the importance and details of obtaining informed consent for operations/procedures
- Observe, when possible, the manner in which attending physicians/preceptors have difficult discussions with patients and family regarding complications of operations, need for reoperations, futility of care, etc.
- Identify in a proactive manner whenever cultural issues affect surgical practice, as in use of blood transfusions when treating Jehovah's Witnesses
- Identify the importance of communication in multidisciplinary care of surgical patients in an environment of mutual respect

Practice-Based Learning:

- Evidence-based decisions and discussions should always precede surgical intervention, (e.g. breast reconstructive surgery vs. mastectomy)
- Use appropriate online resources for up-to-date information, read relevant sources on each case
- Refine problem-solving skills by seeking supervision in all cases, both pre-op and post-op

Professionalism:

- Demonstrate proper behavior in and outside the operating room. At all times, function as a part of the surgical team to which assigned, being responsible to be punctual, involved, and in appropriate arena, which may include the ER, OR, ICU, and floors at various times
- Realize the limits of one's position on the team so as not to engage patient and family in discussions about their care beyond the limits of that position
- Do not discuss cases in public areas, like hospital elevators and hallways

System-Based Learning:

- Be aware of the cost/benefit ratio in the implementation of new technologies in the surgical arena (e.g. laparoscopic and robotic surgery, laser technologies)
- Recognize the importance of ancillary services in the continuum of care of surgical patients (e.g. visiting nurse programs, rehabilitation services, etc.)

PEDC 1400

Pediatrics (6 weeks)

Students receive a broad overview of general pediatrics. Experience is gained with inpatient and ambulatory pediatric care. Pediatric intakes and ward rounds are the basis of inpatient care, while ambulatory care experience is gained in general pediatric clinics through the evaluation of patients with common complaints and disorders. This clinical rotation introduces the student to the challenging treatment of infants, children, and adolescents. The diagnosis and treatment of common illnesses will be emphasized, but the student will have opportunities to learn about rarer congenital and acquired disorders.

PEDIATRICS CORE EDUCATIONAL OBJECTIVES

Patient Care:

- Perform a complete and age-appropriate pediatric history and physical examination, including developmental assessment from infancy to adolescence
- Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment
- Develop and carry out a clinical assessment and plan
- Counsel and educate patients and their families
- Perform competently all medical and invasive procedures appropriate to level of training and supervision
- Provide health care services aimed at preventing health problems or maintaining health

Medical Knowledge:

- Obtain knowledge of disease pathophysiology, diagnosis, and etiology should be mastered
- Gain knowledge of disease management
- Gain knowledge of prevention and health maintenance guidelines
- Critically evaluate and use current medical information and scientific evidence for patient care

Interpersonal and Communication Skills:

- Communicate effectively both orally and in writing, and demonstrate caring and respectful behaviors when interacting with patients and their families
- Create and sustain a therapeutic and ethically sound relationship with patients and parents
- Work effectively with others as a member or leader of a health care team

Professionalism:

- Adhere to ethical principles and sensitivity to diversity
- Demonstrate respect, compassion, integrity, and honesty
- Demonstrate a responsiveness to the needs of patients and society that supersedes self-interest
- Demonstrate accountability to patients, society, and the profession
- Demonstrate a commitment to excellence and ongoing professional development
- Demonstrate sensitivity and responsiveness to a diverse patient population
- Adhere to patient confidentiality
- Strive to be culturally competent

OBGC 1300

Obstetrics and Gynecology (6 weeks)

Students are assigned to obstetrical and gynecological patients for evaluation and follow-up. Participation in normal deliveries is stressed. Students are expected to follow patients through completion of delivery or surgery. Ambulatory obstetrical and gynecological care is stressed and patient contact is supplemented with conferences and didactic teaching sessions. Observation and participation in a number of live births will be provided.

OB/GYN CORE EDUCATIONAL OBJECTIVES

Patient Care:

- Learn the art of a completed and relevant reproductive history, including ethical issues, as well as violence against women
- Learn the indications for and interpretation of the common laboratory tests used in the specialty of obstetrics and gynecology
- Observe and learn basic procedures, common to the specialty of obstetrics and gynecology
- Actively participate in the care of at least one woman throughout the course of labor and delivery and follow-up

Medical Knowledge:

- Understand mechanisms of diseases related to women's health including normal reproductive physiology and pathology
- Understand the mechanisms of actions, toxicities, and proper use of major pharmacologic agents as they affect women and, in pregnancy, the fetus
- Interpersonal Skills and Communication:
 - Learn the importance and techniques of educating and counseling patients and their families regarding reproductive health

Professionalism:

- Demonstrate highest levels of integrity and sensitivity to women's issues

PSYC 1500

Psychiatry (6 weeks)

In a primarily institutional setting, the students learn about the major psychiatric illnesses such as schizophrenia, affective, and anxiety disorders. Students build upon classroom knowledge gained during the first and second years. Treatment of psychiatric patients in the inpatient setting comprises the majority of the rotation. The resources available for care of psychiatric patients are presented. Skill in the evaluation and diagnosis of the psychiatric patients is developed through direct patient interviews and didactic sessions.

PSYCHIATRY CORE EDUCATIONAL OBJECTIVES

Patient Care:

- Demonstrate the ability to obtain a complete psychiatric history, perform a complete mental status exam, and recognize significant physical findings
- Identify the major psychiatric disorders, e.g. mood and anxiety disorders, psychoses, personality disorders, substance disorders, and disorders involving cognitive impairment (delirium, dementia)
- Acquire a basic fund of knowledge about these disorders
- Be familiar with the major classes of psychotropic medications, including pretreatment work-up, indications and contraindications, charting and adequate maintenance dose ranges, common drug interactions, and common side effects
- Assess and begin emergency management and referral of a patient with psychiatric symptoms
- Develop a familiarity with basic psychotherapy concepts
- Demonstrate professional behavior and open, honest communication with patients at all times

Medical Knowledge:

- Demonstrate medical knowledge sufficient to express an understanding of different psychiatric symptoms, such as the recovery model vs. the medical model
- Demonstrate a strong fund of knowledge of psychopathology and psychopathophysiology
- Demonstrate a strong working knowledge of DSM-IV and the diagnostic criteria for major psychiatric disorders
- Participate in developing comprehensive treatment plans
- Understand the basics of psychopharmacologic and psychotherapeutic approaches
- Develop decision-making skills for treatment options
- Interpersonal Skills and Communication:
 - Conduct an interview in a manner that promotes information gathering and a therapeutic alliance
 - Develop a sense of comfort with disturbed patients and patients with chronic psychiatric illnesses, with an awareness of your reactions to these patients

- Demonstrate proficiency in presenting clinical cases
- Identify how family relationships impact mental health and illness and provide appropriate support for the individual patient and their family
- Demonstrate the use of both verbal and non-verbal communication skills in optimizing the care of patients and their families

Practice-Based Learning and Improvement:

- Identify issues of quality and safety as it relates to psychiatric patient care
- Critically appraise the literature to identify the varied treatment options in the care of patients
- Utilize patient preference and best available evidence in clinical decision-making
- Appreciate the impact of physician experience
- Discuss relevant research in the clinical setting

Professionalism:

- Demonstrate moral and ethical qualities when interacting with patients, colleagues, and health care providers
- Identify limitations in treating and caring for patients
- Demonstrate the ability to react in an appropriate and empathetic manner in stressful situations
- Learn your personal biases and control them for the patient's welfare

System-Based Practice:

- Recognize the significance of cost effective health care
- Understand the variety of community resources available to psychiatric patients and how to assess and access different levels of care depending on the patients' needs.
- Utilize patient advocate systems, resources, and information to coordinate and improve care
- Integrate health care systems to provide continuous and diverse comprehensive care of patients and populations

FMPC 1600

Family Practice (6 weeks)

Students work in both the private office and clinic setting and the hospital environment with family practitioners. Unlike other clerkships, this experience is not totally hospital-based. Each student is assigned to an office environment, either a single practitioner or a group to experience how different it is to practice primarily in an outpatient setting.

Each student is assigned to patients as they enter the office. The student must take a history and do a physical examination, define a diagnostic and treatment plan, and then present it to physician. If the patient requires hospitalization, the student will participate in the course in the hospital. If outpatient care is needed beyond the initial visit, the student will schedule and do the follow-up care.

FAMILY MEDICINE CORE EDUCATIONAL OBJECTIVES

Patient Care:

- Provide comprehensive and continuous care to individuals of all ages
- Demonstrate the ability to integrate the best medical evidence in making diagnostic and treatment decisions for individual patients
- Utilize creativity and flexibility when providing patient care for individuals of all ages, socioeconomic, and cultural backgrounds
- Document the ability to record appropriate acute and chronic care of the patient in a problem-oriented format
- Demonstrate the ability to obtain a comprehensive history, perform a physical exam, and develop a differential diagnosis when evaluating patients with acute and chronic medical problems
- Demonstrate the ability to conduct a wellness visit for a patient of any age or gender
- Order appropriate diagnostic tests which are cost effective, evidence based, and consistent with patient values and goals

Medical Knowledge:

- Preventive medicine will be emphasized primarily in the outpatient setting
- Demonstrate proficiency in the diagnosis and treatment of the clerkship topics, utilizing the six ACGME Core Competencies
- Integrate information from the history and physical to develop a differential diagnosis and treatment plan, which is developed using evidence-based, patient-centered outcomes
- Develop treatment plans for individuals of all ages and cultural backgrounds

Interpersonal Skills and Communication:

- Demonstrate proficiency in presenting clinical cases in SOAP format
- Demonstrate proficiency and sensitivity while interacting with colleagues, faculty physicians, nurses, staff, and patients
- Identify how family relationships impact health and illness and provide appropriate support for the individual patient and their family
- Demonstrate the use of both verbal and non-verbal communication skills in optimizing the care of patients and their families

Practice-Based Learning and Improvement:

- Identify the use of quality assurance as it relates to patient care
- Utilize practice guidelines to optimize patient care
- Critically appraise literature to identify the varied treatment options in the care of patients
- Utilize patient preference and best available evidence in clinical decision-making
- Appreciate the impact of physician experience
- Discuss relevant research in the clinical setting

Professionalism:

- Demonstrate moral and ethical qualities when interacting with patients, colleagues, and health care providers
- Identify limitations in treating and curing patients
- Demonstrate the ability to react in an appropriate and empathetic manner in stressful situations
- Learn your personal biases and control them for the patient's welfare
- Consistently approach your work and patients in a professional manner, consistent with other physicians and physicians in-training

System-Based Practice:

- Recognize the significance of cost-effective health care
- Recognize the unequivocal value of primary care as an integral part of any health care system
- Utilize patient advocate systems, resources, and information to coordinate and improve care
- Recognize the importance of treating your patients within the context of their families and communities
- Integrate health care systems to provide continuous and diverse comprehensive care of patients and populations

SENIOR ELECTIVES (30 WEEKS)

Students can choose from dozens of electives focused on a variety of specialty medical fields. These electives serve to provide the necessary credits for graduation while increasing the student's exposure to a variety of specialties in the medical field.

AFFILIATED HOSPITALS

UMHS has established affiliations with teaching hospitals throughout the United States and Canada, where our students complete their core rotations. We are continuing to expand our core clinical affiliations, and are in negotiations with additional teaching hospitals in a variety of states. The following list represents the hospitals where students can complete their core clinical requirements. Hundreds of additional hospitals throughout the United States are available for electives.

AFFILIATED TEACHING HOSPITALS (CORE ROTATIONS)

CONNECTICUT:

Danbury Hospital, Danbury
Griffin Hospital, Derby
St. Mary's Hospital, Waterbury

FLORIDA:

Larkin Community Hospital, South Miami

GEORGIA:

DeKalb Medical Center, Decatur
Georgia Regional Hospital, Decatur
University Hospital, Augusta

ILLINOIS:

Weiss Memorial Hospital, Chicago

MARYLAND:

Baltimore Washington Medical Center, Glen Burnie
Sinai Hospital of Baltimore, Baltimore

MICHIGAN:

McLaren Oakland Hospital, Pontiac
McLaren Macomb Hospital, Mt. Clemens
Crittenton Hospital Medical Center, South Rochester

NEW YORK:

Montefiore New Rochelle Hospital, New Rochelle
Southampton Hospital, Southampton

OKLAHOMA:

Griffin Memorial Hospital, Norman

PUERTO RICO:

Ponce School of Medicine, Ponce
Puerto Rico Children's Hospital, Bayamon

CANADIAN AFFILIATIONS:

Ontario Shores Centre for Mental Health Sciences, Whitby, Ontario

COURSE/CLERKSHIP NUMBERING PROTOCOL

BASIC SCIENCES

The Basic Sciences courses are numbered 600–999 to signify the first two years of graduate/professional coursework. Each course number is prefixed with a Course Discipline Code.

COURSE	COURSE DISCIPLINE CODE
ANATOMY	MANT
PHYSIOLOGY	MPHY
BIOCHEMISTRY	MBIO
CLINICAL SCIENCE	MICM
PATHOLOGY	MPAT
NEUROSCIENCE	MNEU
MICRO/IMMU	MMCR
BEHAVIORAL SCIENCE	MBEH
PHARMACOLOGY	MPHM

CLINICAL SCIENCES

The Clinical Sciences Clerkships taken as third and fourth year students are numbered 1000 and above, with each required clerkship designated with a four-digit Clerkship Discipline Code prefix. The Clerkship Discipline Code also indicates if the rotation is a core, elective, sub-I or research rotation.

1600	
FMPC	Family Medicine Core
FMPI	Family Medicine Sub-I
FMPE	Family Medicine Elective
FMPR	Family Medicine Research
1100	
MEDC	Medicine Core
MEDI	Medicine Sub-I
MEDE	Medicine Elective
MEDR	Medicine Research
1300	
OBGC	ObGYN Core
OBGI	ObGYN Sub-I
OBGE	ObGYN Elective
OBGR	ObGYN Research

1400	
PEDC	Pediatric Core
PEDI	Pediatric Sub-I
PEDE	Pediatric Elective
PEDR	Pediatric Research
1500	
PSYC	Psychiatry Core
PSYI	Psychiatry Sub-I
PSYE	Psychiatry Elective
PSYR	Psychiatry Research
1200	
SURC	Surgery Core
SURI	Surgery Sub-I
SURE	Surgery Elective
SURR	Surgery Research

RESIDENCY MATCH PROGRAM

The National Resident Match Program (NRMP) is a national placement service that most programs and applicants participate in, as it greatly optimizes the chances of getting a residency position. Students apply to programs through The Electronic Residency Application Service (ERAS), and then must also participate in the NRMP in order to match with one of those programs. Students may begin their ERAS application in July and begin submitting them between September and each program's autumn or winter deadline.

To be eligible to participate in the NRMP, students must sit for the USMLE Step 1 and Step 2 CK and CS by December of the year prior to which they wish to enter residency training. Students must also be scheduled to graduate from medical school on or before May 31 of the match year.

After applying to the NRMP, students must apply to each residency program in which they are interested and go on interviews. In February, students must submit a "rank order list" to the NRMP.

The rank order list is a list of the programs where students interviewed, ranked from most to least desirable. Simultaneously, all residency programs submit their rank order lists of the candidates they interviewed.

After the computerized matching process, results are released in March. If a student matches to a specific program, it is a binding contract. Students normally begin in their respective programs on or before July 1.

If a student fails to match or is not eligible to enter the NRMP, the student can still apply to residency programs to obtain a position "outside the match." Students who participated in NRMP but did not match will be sent a publication listing all unfilled residency positions.

NATIONAL RESIDENT MATCHING PROGRAM (NRMP) AND CaRMS

Like students from U.S. medical schools, UMHS students apply for residencies through the National Resident Matching Program (NRMP) in order to obtain a position, or "match," in the United States. Canadian UMHS students have the option of applying to the Canadian Residency Matching Service (CaRMS) alternatively, or in addition to, the U.S. NRMP program.

Students prepare and submit applications to ERAS in the summer and fall prior to their match year in order to interview with prospective programs between September and January.

In February, Canadian students submit "rank" lists of their preferred programs to the NRMP and CaRMS. Similarly, programs submit lists of their preferred applicants. Both the NRMP and CaRMS then apply an algorithm to determine a match based on those preferences. The results are released in March, prior to graduation.

REQUIREMENTS FOR BEGINNING RESIDENCY

Although students apply to residencies during their fourth year, in order to begin practice in a United States program, students must pass the USMLE Step 1, the USMLE Step 2 CK and CS, complete the UMHS clinical curriculum, and receive their diploma and ECFMG certification.

A certificate from the Educational Commission for Foreign Medical Graduates (ECFMG) ensures a foreign medical school and its students have achieved a comparable acumen to United States institutions and meet the standard expected by United States residency programs.

Canadian students are also required to pass the Medical Council of Canada Evaluating Examination (MCCEE) and the National Assessment Collaboration (NAC) examination in order to meet the requirements of most Canadian residency programs.

MATCH RESULTS

MATCH RESULTS 2018

Anesthesiology	University of Arkansas for Medical Sciences	AK
Anesthesiology	Kendall Regional Medical Center	FL
Emergency Medicine	McLaren Oakland Hospital	MI
Emergency Medicine	McLaren Oakland Hospital	MI
Family Medicine	Baptist Health	AL
Family Medicine	Baptist Health	AL
Family Medicine	The University of Alabama College of Community Health Sciences	AL
Family Medicine	The University of Alabama College of Community Health Sciences	AL
Family Medicine	Gwinnett Medical Center	GA
Family Medicine	WellStart Kennestone Regional Medical Center	GA
Family Medicine	WellStart Kennestone Regional Medical Center	GA
Family Medicine	Mercy Medical Center	IA
Family Medicine	Quincy Family Practice Center	IL
Family Medicine	Rush-Copley Medical Center	IL
Family Medicine	Southern Illinois University Center for Family Medicine	IL
Family Medicine	Baptist Health Madisonville	KY
Family Medicine	LSU School of Medicine Rural Family Medicine Residency Program	LA
Family Medicine	University Hospitals and Clinics	LA
Family Medicine	Oakland University William Beaumont School of Medicine	MI
Family Medicine	Ascension Genesys Regional Medical Center	MI
Family Medicine	Mercy Health Grand Rapids	MI
Family Medicine	PONTIAC General Hospital/Oakland Physicians Medical Center	MI
Family Medicine	Hennepin County Medical Center	MN
Family Medicine	University of Mississippi Medical Center	MS
Family Medicine	Vidant Medical Center-East Caronlia University	NC
Family Medicine	University of North Dakota: School of Medicine and Health Sciences	ND
Family Medicine	University of North Dakota: School of Medicine and Health Sciences	ND
Family Medicine	University of North Dakota: School of Medicine and Health Sciences	ND
Family Medicine	CHI Health-Creighton University Medical Center	NE
Family Medicine	Lincoln Medical Education Partnership	NE
Family Medicine	Hackensack Meridian Health Palisades Medical Center	NJ
Family Medicine	Hoboken University Medical Center/New York Medical College Program	NJ
Family Medicine	Hackensack Meridian Health Ocean Medical Center	NJ
Family Medicine	Adena Health System	OH
Family Medicine	Akron General Medical Center	OH
Family Medicine	Conemaugh Memorial Medical Center	PA
Family Medicine	The Wright Center for Graduate Medical Education	PA
Family Medicine	Center for Family Medicine	SD
Family Medicine	The University of Tennessee Health Science Center Saint Francis Family Medicine Residency	TN
Family Medicine	Texas Tech University Health Sciences Center	TX
Family Medicine	Medical College of Wisconsin Affiliated Hospitals	WI
Family Medicine	Mercy Health System	WI
Family Medicine	Mercy Health System	WI
Family Medicine	United Hospital Center	WV
Family Medicine	Wheeling Hospital	WV
Family Medicine	University of Wyoming	WY
Internal Medicine	University of South Alabama Health System	AL
Internal Medicine	University of South Alabama Health System	AL
Internal Medicine	Yale New Haven Health Bridgeport Hospital	CT
Internal Medicine	Griffin Hospital	CT

Internal Medicine	University of Connecticut School of Medicine	CT
Internal Medicine	Blake Medical Center	FL
Internal Medicine	Charles E. Schmidt College of Medicine	FL
Internal Medicine	Kendall Regional Medical Center	FL
Internal Medicine	University of Central Florida (UCF) College of Medicine Graduate Medical Education Consortium	FL
Internal Medicine	University of Central Florida (UCF) College of Medicine Graduate Medical Education Consortium	FL
Internal Medicine	University of Central Florida (UCF) College of Medicine Graduate Medical Education Consortium	FL
Internal Medicine	Augusta University-University of Georgia Medical Partnership	GA
Internal Medicine	Augusta University-University of Georgia Medical Partnership	GA
Internal Medicine	Gwinnett Medical Center	GA
Internal Medicine	Swedish Covenant Hospital	IL
Internal Medicine	University of Illinois at Chicago College of Medicine/Advocate Christ Medical Center	IL
Internal Medicine	Greater Baltimore Medical Center	MD
Internal Medicine	MedStar Union Memorial Hospital	MD
Internal Medicine	Sinai Hospital of Baltimore	MD
Internal Medicine	Sinai Hospital of Baltimore	MD
Internal Medicine	Detroit Medical Center/Wayne State University/Huron Valley-Sinai Hospital	MI
Internal Medicine	Genesys Regional Medical Center	MI
Internal Medicine	Henry Ford Macomb Hospital	MI
Internal Medicine	Henry Ford Macomb Hospital	MI
Internal Medicine	Henry Ford Macomb Hospital	MI
Internal Medicine	McLaren Oakland Hospital	MI
Internal Medicine	McLaren Oakland Hospital	MI
Internal Medicine	McLaren Oakland Hospital	MI
Internal Medicine	Wayne State University School of Medicine	MI
Internal Medicine	Wayne State University School of Medicine	MI
Internal Medicine	Wayne State University School of Medicine	MI
Internal Medicine	Hackensack Meridian Health Mountainside Medical Center	NJ
Internal Medicine	Drexel University College of Medicine/Hahnemann University Hospital	PA
Internal Medicine	Mercy Catholic Medical Center	PA
Internal Medicine	PinnacleHealth Hospitals	PA
Internal Medicine	St. Mary Medical Center	PA
Internal Medicine	University of Pittsburgh Medical Center Mercy Hospital	PA
Internal Medicine	Hospital Damas	PR
Internal Medicine	Hospital Episcopal San Lucas	PR
Internal Medicine	Hospital Episcopal San Lucas	PR
Internal Medicine	Hospital Episcopal San Lucas	PR
Internal Medicine	San Juan City Hospital	PR
Internal Medicine	University of Puerto Rico School of Medicine	PR
Internal Medicine	University of Puerto Rico School of Medicine	PR
Internal Medicine	University of Puerto Rico School of Medicine	PR
Internal Medicine	University of Puerto Rico School of Medicine	PR
Internal Medicine	Roger Williams Medical Center	RI
Internal Medicine	East Tennessee State University	TN
Internal Medicine	University of Tennessee College of Medicine	TN
Internal Medicine	Carilion Clinic	VA
Medicine/Pediatrics	Louisiana State University School of Medicine	LA
Medicine/Pediatrics	University Hospital	MO
Medicine/Pediatrics	University of Missouri Health Care	MO
Neurology	Mercy Health-St. Vincent Medical Center	OH
Obstetrics/Gynecology	Medical Center Navicent Health/Mercer University School of Medicine	GA
Ophthalmology	The Medical University of South Carolina	SC
Pediatrics	Sinai Hospital of Baltimore	MD
Pediatrics	Hospital Episcopal San Lucas	PR
Psychiatry	Citrus Health Network	FL
Psychiatry	Coliseum Medical Centers	GA

Radiology/Diagnostic	St. Joseph Mercy Oakland	MI
Surgery	Mayo Clinic School of Graduate Medical Education	AZ
Surgery	Kendall Regional Medical Center	FL
Surgery	Spectrum Health/Michigan State University College of Human Medicine	MI
Surgery	St. Joseph Mercy Oakland	MI
Surgery	Hospital Episcopal San Lucas	PR
Surgery	Hospital Episcopal San Lucas	PR
Surgery	The Medical University of South Carolina	SC
Transitional	Brandon Regional Hospital	FL
Transitional	Kendall Regional Medical Center	FL
Transitional	Coliseum Medical Centers	GA
Transitional	Detroit Medical Center/Wayne State University	MI
Transitional	Hospital Damas	PR
Transitional	Hospital Damas	PR
CANADA		
Anatomical Pathology	University of Calgary	CN

MATCH RESULTS 2017

Anesthesiology	Drexel University College of Medicine/Hahnemann University Hospital	PA
Anesthesiology	Loyola University Medical Center	IL
Anesthesiology	University of Arkansas for Medical Sciences Regional Programs	AR
Anesthesiology	University of Arkansas for Medical Sciences Regional Programs	AR
Anesthesiology	University of Kansas School of Medicine	KS
Emergency Medicine	McLaren Oakland	MI
Emergency Medicine	Medical College of Georgia at Augusta University	GA
Family Medicine	Beaumont Health System	MI
Family Medicine	Carolinas Medical Center—Biddle Point Urban Track	NC
Family Medicine	Cedar Rapids Medical Education Foundation	IA
Family Medicine	DeTar Healthcare System	TX
Family Medicine	Howard University Hospital	DC
Family Medicine	Lincoln Medical Education Partnership	NE
Family Medicine	Louisiana State University Health Sciences Center Rural Family Medicine Program, Bogalusa	LA
Family Medicine	Medical Center of Central Georgia/Mercer University School of Medicine	GA
Family Medicine	Medical Center of Central Georgia/Mercer University School of Medicine	GA
Family Medicine	Midtown Medical Center—Columbus	GA
Family Medicine	Midtown Medical Center—Columbus	GA
Family Medicine	Northeast Iowa Medical Education Foundation	IA
Family Medicine	Quincy Family Practice Center	IL
Family Medicine	St. Joseph's Regional Medical Center	NJ
Family Medicine	Presence Saints Mary and Elizabeth Medical Center	IL
Family Medicine	Southwest Oklahoma Family Medicine Residency and Clinic	OK
Family Medicine	University of Alabama School of Medicine	AL
Family Medicine	University of Nevada, Reno School of Medicine—Rural	NV
Family Medicine	University of North Dakota School of Medicine & Health Sciences	ND
Family Medicine	University of Arkansas for Medical Sciences Regional Programs	AR
Family Medicine	University of Wyoming	WY
Family Medicine	University of Mississippi Medical Center	MS
Family Medicine	Virtua Health System, Family Medicine Residency	NJ
Family Medicine	Wheeling Hospital	WV
General Surgery	TriHealth Good Samaritan Hospital	OH
General Surgery	University of South Carolina School of Medicine Greenville	SC
General Surgery	PinnacleHealth Harrisburg Hospital	PA
General Surgery	WellSpan York Hospital	PA
Internal Medicine	Augusta University—University of Georgia Medical Partnership	GA

Internal Medicine	Augusta University—University of Georgia Medical Partnership	GA
Internal Medicine	Augusta University—University of Georgia Medical Partnership	GA
Internal Medicine	Blake Medical Center	FL
Internal Medicine	Coliseum Medical Centers	GA
Internal Medicine	Wayne State University, Detroit Medical Center	MI
Internal Medicine	Wayne State University, Detroit Medical Center	MI
Internal Medicine	Henry Ford Health Systems	MI
Internal Medicine	Henry Ford Macomb Hospital	MI
Internal Medicine	Henry Ford Macomb Hospital	MI
Internal Medicine	Hospital Episcopal San Lucas	PR
Internal Medicine	Hospital Episcopal San Lucas	PR
Internal Medicine	Louisiana State University School of Medicine	LA
Internal Medicine	McLaren Oakland Hospital	MI
Internal Medicine	Mercy Hospital and Medical Center	IL
Internal Medicine	Morehouse School of Medicine	GA
Internal Medicine	Hackensack University Medical Center Mountainside	NJ
Internal Medicine	Nazareth Hospital	PA
Internal Medicine	New Hanover Regional Medical Center	NC
Internal Medicine	Providence—Providence Park Hospital	MI
Internal Medicine	Providence Sacred Heart Medical Center & Children's Hospital	WA
Internal Medicine	Raritan Bay Medical Center	NJ
Internal Medicine	Roger Williams Medical Center	RI
Internal Medicine	Sinai Hospital	MD
Internal Medicine	St. Luke's University Health Network	PA
Internal Medicine	University of Arizona College of Medicine—South Campus	AZ
Internal Medicine	OSF Saint Francis Medical Center	IL
Internal Medicine	University of Central Florida College of Medicine Graduate Medical Education Program	FL
Internal Medicine	Universidad Central del Caribe School of Medicine	PR
Internal Medicine	University of Mississippi Medical Center	MS
Internal Medicine	Wayne State University School of Medicine	MI
Internal Medicine	Wayne State University School of Medicine	MI
Internal Medicine	West Suburban Medical Center	IL
Internal Medicine	West Suburban Medical Center	IL
Internal Medicine	Wright Center for Graduate Medical Education	PA
Internal Medicine	Wright Center for Graduate Medical Education	PA
Medicine/Pediatrics	Hurley Medical Center	MI
Medicine/Pediatrics	OSF Saint Francis Medical Center	IL
Medicine/Pediatrics	Beaumont Health System	MI
Obstetrics/Gynecology	Hurley Medical Center	MI
Obstetrics/Gynecology	Medical Center of Central Georgia/ Mercer University School of Medicine	GA
Pathology	University of Missouri—Kansas City Programs	MO
Pediatrics	Crozer—Chester Medical Center	PA
Pediatrics	Jersey Shore University Medical Center	NJ
Pediatrics	Sinai Hospital	MD
Pediatrics	OSF Saint Francis Medical Center	IL
Psychiatry	Virginia Tech Carilion School of Medicine—Carilion Clinic	VA
Psychiatry	Griffin Memorial Hospital	OK
Psychiatry	University of Louisville School of Medicine	KY
Radiology/Diagnostic	Saint Louis University School of Medicine	MO
Surgery	Mayo Clinic School of Graduate Medical Education	MN
Transitional	Hospital Damas	PR
Transitional	Hospital Damas	PR
CANADA		
Family Medicine	University of Toronto	CN

MATCH RESULTS 2016

Anesthesiology	Advocate Illinois Masonic Medical Center	IL
Anesthesiology	University of Toledo	OH
Family Medicine	Beaumont Health System, Grosse Pointe Campus	MI
Family Medicine	Cahaba Medical Care	AL
Family Medicine	Virginia Tech Carilion School of Medicine—Carilion Clinic	VA
Family Medicine	Grand Rapids Medical Education Partners	MI
Family Medicine	University of South Carolina School of Medicine Greenville	SC
Family Medicine	Gwinnett Medical Center	GA
Family Medicine	Hennepin County Medical Center	MN
Family Medicine	Adventist La Grange Memorial Hospital	IL
Family Medicine	Lincoln Medical Education Partnership	NE
Family Medicine	Louisiana State University Health Sciences Center Shreveport	LA
Family Medicine	Louisiana State University Health Sciences Center Shreveport	LA
Family Medicine	Medical Center of Central Georgia/Mercer University School of Medicine	GA
Family Medicine	Medical Center of Central Georgia/Mercer University School of Medicine	GA
Family Medicine	Midtown Medical Center—Columbus	GA
Family Medicine	Midtown Medical Center—Columbus	GA
Family Medicine	Midtown Medical Center—Columbus	GA
Family Medicine	Northeast Iowa Medical Education Foundation	IA
Family Medicine	HCA Midwest Health Research Medical Center	MO
Family Medicine	Sacred Heart Hospital of Allentown	PA
Family Medicine	Sacred Heart Hospital of Allentown	PA
Family Medicine	University of Alabama Selma Family Medicine Residency	AL
Family Medicine	University of Alabama Selma Family Medicine Residency	AL
Family Medicine	University of Alabama Selma Family Medicine Residency	AL
Family Medicine	Southern Illinois University Carbondale	IL
Family Medicine	Mercy Health—St. Elizabeth Boardman Hospital, Youngstown	OH
Family Medicine	Presence Saints Mary and Elizabeth Medical Center	IL
Family Medicine	Presence Saints Mary and Elizabeth Medical Center	IL
Family Medicine	University of Alabama at Birmingham School of Medicine, Huntsville Campus	AL
Family Medicine	University of Illinois College of Medicine at Rockford	IL
Family Medicine	University of Arkansas for Medical Sciences Regional Programs, Jonesboro	AR
Family Medicine	Union Hospital	IN
Family Medicine	Union Hospital	IN
Family Medicine	WVU Medicine United Hospital Center	WV
Family Medicine	University of North Dakota School of Medicine & Health Sciences—Rural Track Williston	ND
Family Medicine	University of Wyoming at Casper	WY
Family Medicine	University Hospital & Clinics	LA
Family Medicine	University Hospital & Clinics	LA
Family Medicine	Washington Hospital	PA
Family Medicine	Washington Hospital	PA
Family Medicine	UPMC Susquehanna Williamsport Regional Medical Center	PA
Family Medicine	The Wright Center	PA
Family Medicine	Yuma Regional Medical Center	AZ
Internal Medicine	Brandon Regional Hospital	FL
Internal Medicine	Drexel University College of Medicine/Hahnemann University Hospital	PA
Internal Medicine	Augusta University—University of Georgia Medical Partnership	GA
Internal Medicine	Augusta University—University of Georgia Medical Partnership	GA
Internal Medicine	Hospital de la Concepción	PR
Internal Medicine	Hospital Episcopal San Lucas	PR
Internal Medicine	Mercy Hospital and Medical Center	IL
Internal Medicine	Hackensack University Medical Center Mountainside	NJ
Internal Medicine	PinnacleHealth Harrisburg Hospital	PA

Internal Medicine	PinnacleHealth Harrisburg Hospital	PA
Internal Medicine	Providence Hospital	DC
Internal Medicine	Providence—Providence Park Hospital	MI
Internal Medicine	Southern Illinois University and Affiliated Hospitals	IL
Internal Medicine	The University of Arizona College of Medicine—Phoenix	AZ
Internal Medicine	Wayne State University School of Medicine	MI
Internal Medicine	Wayne State University School of Medicine	MI
Medicine-Primary	The Wright Center	PA
Medicine-Preliminary	Griffin Hospital	CT
Medicine-Preliminary	The University of Tennessee Health Science Center—Memphis	TN
Neurology	The University of Tennessee Health Science Center—Memphis	TN
Obstetrics-Gynecology	Hospital Episcopal San Lucas	PR
Obstetrics-Gynecology	MedStar Franklin Square Medical Center	MD
Obstetrics-Gynecology	Northeast Ohio Medical University/Aultman Hospital	OH
Obstetrics-Gynecology	St. Joseph Mercy Ann Arbor	MI
Pediatrics	Newark Beth Israel Medical Center	NJ
Pediatrics	Sinai Hospital	MD
Pediatrics	St. Joseph's Regional Medical Center	NJ
Pediatrics	OSF Saint Francis Medical Center	IL
Phys Medicine & Rehab	Barnes- Jewish Hospital	MO
Psychiatry	Wayne State University, Detroit Medical Center	MI
Psychiatry	University of Illinois College of Medicine, Methodist Medical Center	IL
Radiology-Diagnostic	University of Toledo	OH
Surgery-Preliminary	Mayo School of Graduate Medical Education	MN
Surgery-Preliminary	Saint Louis University School of Medicine	MO
Surgery-Preliminary	WellSpan York Hospital	PA
Transitional	Wayne State University, Detroit Medical Center	MI
Transitional	Wayne State University, Detroit Medical Center	MI
Transitional	Hospital Episcopal San Lucas	PR
CANADA		
Family Medicine	University of British Columbia, Vancouver Island—Strathcona	CN
Family Medicine	University of Manitoba	

FACULTY AND ADMINISTRATION

Faculty members at UMHS share a love of teaching. Skilled and credentialed educators, with backgrounds in medical education, research, and administration, they truly believe that medical students deserve the best instructional methods and technological tools available today.

Priding themselves on their high level of availability to UMHS students inside and outside of the classroom, our faculty create a nurturing learning environment. We are a small school catering to the individual needs of our students. Unlike other Caribbean medical schools, we offer a personalized education and work closely with each student to ensure their success. As a result, our current attrition rate is approximately 4 percent in the Basic Science Program.

Each faculty member was selected because of their unique set of academic medicine capabilities. Team members include both educators who transitioned from private practice to academic medicine and educators who have spent their entire careers focused on providing the finest instruction to medical students. As UMHS grows, recruitment of credentialed and qualified faculty primarily from U.S. medical schools is ongoing.

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and Professor of Immunology

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Ian Jacobs, M.D.
Clinical Assistant Professor of Medicine

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Professor of Pathology and Professor
of Microbiology

Yogitha Jalan, B.Sc., M.Sc.
Instructor of Microbiology

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Assistant Professor of Biochemistry and ICM

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Associate Dean of Basic Sciences and
Professor of Cell Biology

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Assistant Professor of Behavioral Science

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Director of the Accelerated Review Program,
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of Medical Education

Thomas McCracken, Ph.D. (H.C.), M.S., B.E.
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and Developmental Anatomy

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Dean of Student Affairs, Chair of Molecular
Sciences, and Course Director and Professor of
Biochemistry

Jagadeesh Nagappa, M.B.B.S., D.F.M.
Associate Professor of Physiology

Edwin Purcell, Ph.D.
Dean of Basic Sciences, Chair and Professor
of Gross Anatomy, and Professor of Histology

Alfred Roy, M.D., M.B.B.S.
Chair and Professor of Pathology

Bichara S. Sahely, B.Sc. (Hons),
M.B., B.S., D.M. (UWI)

Clinical Assistant Professor of Medicine

Iris Saltiel, Ed.D.
Learning Skills Specialist

Pinakini Shankar, M.B.B.S., M.D.
Course Director and Professor of Pharmacology

Frank Wagner, Psy.D., M.A., B.S., B.B.A.
Chair and Professor of Behavioral Science

Ishrat Waheed, M.Phil., Ph.D.
Professor of Cell Biology, Biochemistry,
Immunology, and Genetics

Deborah Williams, M.D.
Professor of Pathology

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Clinical Professor of Surgery

U.S. ADMINISTRATION

George Shade, M.D.
Dean of Clinical Science and Professor
of Clinical Medicine

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Associate Clinical Dean

MAINE ADMINISTRATION AND FACULTY

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Director of the Fifth Semester (Maine)
and Professor of Clinical Medicine

Donna Thompson, M.D.C.M.
Associate Clinical Dean

Mia Taylor
Director of Clinical Affiliations

CLINICAL ADJUNCT FACULTY/ MAINE

Joscar Cabatingan, M.D.
Internal Medicine

Karen Ewert, M.D.
Obstetrics/Gynecology

Robert Wilhoite, M.D.
Pathology

Richard Kappelman, M.D.
Internis

FIFTH SEMESTER FACULTY/PRECEPTORS AND ADMINISTRATION

Carol Place, B.S.
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Rachel Roberts, B.S.
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Ann McCullough
Administrative Assistant

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DAVID R. GRAHAM, M.B Ch.B., M.D., F.R.C.P., F.F.S.E.M.

Provost

Dr. David R. Graham qualified in 1977 from the Liverpool Medical School at the University of Liverpool in the UK. He trained in many of hospitals in northwestern England, including the Royal Liverpool University Teaching Hospital, and also in the University Hospital, London, Ontario, Canada. He carried out research in several areas of respiratory medicine, producing papers and presenting at the American Thoracic Society. An extended piece of research led to the award of a postgraduate M.D. by the University of Liverpool.

Dr. Graham became a consultant physician specializing in general internal medicine and respiratory medicine; he also became a Fellow of the Royal College of Physicians (F.R.C.P.).

He developed his interest in medical education, becoming clinical tutor, and then deputy postgraduate dean. In 1999, he was appointed as the postgraduate dean for the Mersey Deanery and was responsible for the development and delivery of training for over 2,200 junior doctors in the hospitals across Merseyside, a county in northwestern England.

In 2008, Dr. Graham became a professor of medical education at the University of Liverpool, and soon afterward, also became Dean of the Liverpool Medical School. He was the first postgraduate dean to hold both undergraduate and postgraduate roles. As dean of the medical school, he was responsible for both the teaching programs for 1,500 medical students, and the five research schools.

In 2014, Dr. Graham was appointed as a non-executive director and board member of St. Helens and Knowsley University Teaching Hospitals NHS Trust.

Dr. Graham acted as a consultant and advisor at UMHS starting in 2015. He formally joined UMHS in April 2018. He brings a wealth of experience and remains committed to medical education and the development of the young professionals of the future, who will enhance and provide excellent care for their patients.

EDWIN S. PURCELL, Ph.D.

Dean of Basic Science, Chair and Professor of Gross Anatomy, and Professor of Histology

Dr. Edwin S. Purcell holds a Ph.D. in Anatomy from the University of Kansas Medical Center, as well as an M.A. in Physiology and a B.A. in Biology from the University of Kansas, Lawrence. He also has an associate degree and B.A. in Psychology from Monmouth College.

Dr. Purcell has an extensive medical education background and holds multiple teaching awards. He has taught at several institutions, including Santa Fe Community College, the University of Kansas Medical Center, Johnson County College, the University of Kansas Medical Center,

Des Moines University, Lake Erie College of Osteopathic Medicine, and the University of Missouri-Kansas City School of Medicine. Just before joining UMHS, Dr. Purcell was interim chair and associate professor of anatomy at A.T. Still University in Missouri.

Dr. Purcell's research has focused on interactions between the nervous and immune system. He helped to establish the link between stress and immune suppression, and later demonstrated the ability of increased vagal activity to decrease the production of hyperinflammatory cytokines. He was a founding member of the Psychoneuroimmunology Research Society and is a member of the American Association of Clinical Anatomists.

SUDHIR AMBATI, M.B.B.S.

Course Director of Epidemiology, Associate Professor of ICM and Physical Diagnosis

Dr. Sudhir Ambati earned his M.P.H. from Deakin University in Australia, and he received his M.B.B.S. from NTR University of Health Sciences in India.

Dr. Ambati practiced in India and the Caribbean. Before joining UMHS, he was the course director of epidemiology at Saba University School of Medicine in Saba, Dutch Caribbean, where he also worked in the Department of ICM and taught doctor-patient relationship courses.

During his stay in Saba, Dr. Ambati worked with the Body, Mind and Soul organization, which conducts public health campaigns on many Dutch Caribbean Islands. He orchestrated a number of health education programs that created awareness of chronic medical conditions in the Saba community. Dr. Ambati also collaborated with Saba University and various secondary schools of the Dutch Caribbean Islands to host regular sessions for students on topics such as controlling mosquito-borne infections, sexually transmitted diseases, and nutrition and diet.

AGNES BEACHMAN, Ph.D.

Course Director and Professor of Medical Education

Dr. Agnes Beachman received her R.N. from the Cochrane School of Nursing in 1978, and continued her studies. She went on to earn a B.S.N., M.P.H, and Ph.D. in health services. A native New Yorker, Dr. Beachman practiced in New York at two major university-based hospitals, conducted in-service education, and conducted research, which was published and presented in many venues.

Dr. Beachman has resided in St. Kitts-Nevis for 20 years, working for nine years with the Ministry of Health as a consultant, educator, and health planner. During her stay in St. Kitts, Dr. Beachman has been involved in many community activities as a health professional and leader in several NGOs.

She has been with UMHS since 2005, first in the International University of Nursing, and currently in the capacity of interim course director and assistant professor for medical ethics. She also acts as outreach coordinator and study skills counselor.

NORMA ANN CELESTINE, M.L.S., B.A., A.H.I.P.

Director of Library and Educational Applications, Professor of Library Research

Professor Norma Ann Celestine directs all daily library and exam center operations, and strives to keep UMHS in step with advances in library science, medical information resources and technology, computerized assessment, and educational technologies.

She earned an M.L.S. and a B.A. from the University of British Columbia in Vancouver. Prior to joining UMHS in June 2006, Professor Celestine directed operations for the HealthLink Services-Research Services Department at the Kitchener Public Library in Kitchener, Ontario. She also held other positions, including assistant director of library services at St. George's University School of Medicine in Grenada, director of library services at Arusha International Development Resource Centre in Calgary, Alberta, and library director at University of the West Indies, Extra-Mural Department in St. George's, Grenada.

MICHAEL D. DOHERTY, PH.D.

Professor of Neuroscience

Dr. Michael D. Doherty received his Ph.D. from McGill University in Montreal. His M.Sc. is also from McGill University, and his B.A. is from Concordia University in Montreal.

Prior to joining UMHS, Dr. Doherty was chair of the Neuroscience Department at the Medical University of the Americas in Nevis, West Indies. He has also taught at Weill Medical College of Cornell University in New York, and was an instructor in the Science Outreach Program in New York City, a program for elementary, middle school, and high school students.

Dr. Doherty was a postdoctoral researcher in the Department of Neurobiology/Neuroscience at Weill Medical College. He also did postdoctoral research at Rutgers University in New Jersey, and was a postgraduate research assistant in the psychiatry and neurology departments at McGill University.

DAVID L. FELTEN, M.D., PH.D.

Associate Dean of Clinical Sciences, Professor of Neurosciences

Dr. David L. Felten is a neuroscientist whose contributions helped establish the fields of neural-immune signaling, and psychoneuroimmunology as a foundation for the physiological understanding of complementary and integrative medicine. He received a B.S. from Massachusetts Institute of Technology, and an M.D. and Ph.D. in Anatomy/Neuroscience from the University of Pennsylvania School of Medicine.

Dr. Felten is chairman of the board of Clerisy Corp., a biotech corporation in Pittsford, NY. He previously served as vice president for research and medical director of the Beaumont Research Institute in Royal Oak, MI, and dean of the School of Graduate Medical Education at Seton Hall University in South

Orange, NJ. At the University of Rochester School of Medicine & Dentistry, he served as the Kilian J. and Caroline F. Schmitt Professor, chair of the Department of Neurobiology & Anatomy, and director of the Markey Charitable Trust Institute for Neurobiology of Neurodegenerative Diseases and Aging.

For his pioneering findings in Neural-Immune interactions, Dr. Felten received the John D. and Catherine T. MacArthur Foundation Prize Fellowship. He was also twice nominated for a Lasker Prize. Dr. Felten is one of only a handful of researchers ever to receive two 10-year, peer-review-based MERIT awards from two separate Institutes (Aging and Mental Health) at the National Institutes of Health, which provides research support for an extended period to proven investigators whose work has had extraordinary importance or impact.

Dr. Felten is the author of over 200 peer-reviewed publications, most of which focus on links between the nervous system and immune system. He has also given more than 100 major addresses and presentations at national and international symposia and scientific meetings, including many prestigious named lectureships. He is the lead author of the major revisions to the highly acclaimed Netter's Atlas of Neuroscience, 3rd edition, 2016, and Netter's Neuroscience Flash Cards, 3rd edition, 2016.

DESIA GRACE PEREIRA, PH.D.

Clinical Psychologist, Assistant Professor of Medical Education

Dr. Desia Grace Pereira is a clinical psychologist who received her Ph.D. in Clinical Psychology from the University of Illinois at Chicago. She received her B.A. in Psychology from the University of Massachusetts at Amherst.

Her clinical expertise extends to brief and longer-term empirically validated forms of individual, couple, and group therapy. She has a base of multicultural student clients who present with a wide spectrum of psychological difficulties, including depression and anxiety difficulties, childhood and adult trauma-related difficulties, relationship difficulties, eating disorders, adjustment and academic-related difficulties, substance use, and chronic pain or illness. She also has extensive experience developing and conducting outreach programs, coordinating National Institute of Mental Health-funded psychological research, and performing crisis assessment.

Dr. Pereira has worked in several university and hospital clinics, at the downtown Los Angeles VA, and most recently, at Ross University School of Veterinary Medicine.

VEERABHADRA GOWDA, M.B.B.S., M.D., D.C.C.P.

Professor of Pharmacology, ICM, and Physical Diagnosis

Dr. Veerabhadra Gowda joined UMHS in 2015. He holds an M.B.B.S. from Sri Devaraj Urs Medical College in India, and an M.D. from Kasturba Medical College in Manipal.

He started teaching in 1997, after working for two years in a primary health center. Early in his career, Dr. Gowda taught at Melaka Manipal Medical College in Malaysia, St. Christopher School of Medicine in the United Kingdom, and St. Matthew's University School of Medicine in Grand Cayman.

In 2009, Dr. Gowda joined Ross University School of Medicine in the Bahamas to develop the Progressive Academic education program, the blend of TBL and case-based learning. He also taught pharmacology and Introduction to Clinical Medicine.

In 2010, he moved to the Ross campus in Dominica to facilitate the Academic Success program in the Center for Teaching and Learning, where he helped students with learning issues. His research and publications are focused on pharmacological topics and medical education.

His special interest is in medical education and helping students with learning issues.

JANE HARRINGTON, Ph.D.

Course Director and Professor of Microbiology and Professor of Immunology

Dr. Jane Harrington contributes to the UMHS faculty team as the course director for microbiology and medical research elective, and as an instructor for immunology.

Dr. Harrington, a bench-trained microbiology researcher and educator, earned her B.S. in Microbiology from University of Texas at Austin, where she conducted a research project on flagella regulation of *Salmonella typhimurium*. She obtained a Doctor of Philosophy in Biomedical Sciences from the University of Massachusetts Medical School, Worcester. With a specific interest in the host-pathogen interaction, Dr. Harrington joined a gastroenterology-immunology lab for her postdoctoral training to study host responses to *Salmonella* infection at University of California San Diego.

Inspired to become an educator from an early age, Dr. Harrington pursued formal training in education while she completed her scientific degrees. She has earned a Certificate in College Teaching from the Colleges of Worcester Consortium and landed an NIH-sponsored Institutional Research and Academic Career Development Award (IRACDA) fellowship. As a participant in the Howard Hughes Medical Institute Summer Institute pedagogy workshop, she was awarded "Education Fellow in the Life Sciences" by the National Academy of Sciences.

Currently, Dr. Harrington provides students opportunities to develop independent research projects in microbiology. Past and present projects include isolation of methicillin-resistant *Staphylococcus aureus* on campus surfaces and mobile devices, and isolation of antibiotic resistant *Salmonella* and *E. coli* from grocery-store-purchased pork and chicken products.

ANOOP KUMAR JALAN, M.D., M.B.B.S.

Professor of Pathology

Dr. Anoop Kumar Jalan earned his M.D. in Pathology from the Kasturba Medical College at Deemed University in India. He received his M.B.B.S. degree from J.J.M. Medical College in Karnataka, India. At the beginning of his medical education career, Dr. Jalan was a tutor in pathology and microbiology at Kasturba Medical College in Manipal, India. He also conducted basic laboratory sessions in medical microbiology for medical and dental undergraduates, and reported histopathology, cytology, and hematology specimens under supervision.

Dr. Jalan was later actively involved in independent reporting of histopathology, cytology, and hematology specimens at Manipal Teaching Hospital at the Manipal College of Medical Sciences in Nepal. Dr. Jalan also worked as an associate professor of pathology at Saba University School of Medicine in Saba, Dutch Caribbean.

Immediately prior to joining UMHS, Dr. Jalan was chair of the Department of Pathology and Microbiology and a professor of pathology at St. Eustatius School of Medicine in St. Eustatius, Netherlands Antilles.

In addition to his teaching responsibilities, Dr. Jalan was the course director for Pathology I and II, chair of the Student Grievance Committee, chair of the Curriculum Committee, and faculty advisor for the American Medical Student Association (AMSA).

PHILIP KAPLAN, Ph.D., M.A.

Counselor and Assistant Professor of Medical Education

Dr. Philip L. Kaplan completed his graduate education at Case Western Reserve University in Case Western Reserve University in Cleveland, Ohio. He began his career as a clinical psychologist at the Community Mental Health Center of Rutgers Medical School as part of the staff supporting the education of medical students, psychiatric residents, and fellows in child psychiatry. Initially, he served as the diagnostic consultant to the division of Youth Services, and then served five years as the Youth Coordinator of the Acute Psychiatric Service, before going on to be director of the Middlesex County Family Court's Crisis Intervention Service for four years.

Since establishing his independent practice in 1987, he has provided clinical and forensic evaluation and consultation as a court appointed expert in the areas of criminal responsibility, competence to stand trial, family violence, child development and maltreatment, and custody and visitation, as well as the determination of disability. For eight years, he also served as the chief psychologist at a psychiatric hospital where, in addition to administrative duties, he provided consultation to the adult stabilization and criminal forensic

units and provided clinical coordination for a long-term adolescent treatment unit. In addition, he has been a consultant to long-term substance and alcohol treatment and juvenile justice facilities.

Along with his practice activities, he has been adjunct faculty at the undergraduate and graduate level, teaching courses in child development, clinical psychology, personality theory, child maltreatment, and issues of family and dependency court. He continues to serve as a director on the board of the Leadership Council on Child Abuse and Interpersonal Violence and, as a member of the editorial board of the Journal of Child Custody.

INDER KAUR, M.D., M.B.B.S.

Assistant Professor of Biochemistry and ICM

Dr. Inder Preet Kaur is a graduate from Jawaharlal Nehru Memorial Medical College in India. Subsequent to her graduation, she acquired an expertise in biochemistry. As a result of her proficiency in this area, she was recognized by the institution as one of their premier physicians. During this post graduate period, she also completed a research thesis in the area of oxidative stress and coronary artery disease. The paper was submitted to a peer-review journal and has been cited in PubMed.

Dr. Kaur went on to serve as assistant professor in the Department of Biochemistry. Within a short period of time based on her academic excellence, she was promoted to the rank of associate professor. Her departmental responsibilities at that time consist of the following: mentoring medical students, providing lectures within the department and managing the clinical chemistry laboratory in the hospital, as well as assisting graduate students with post-doctoral research and thesis preparation.

Dr. Kaur continued her medical educational development and applied for a post-graduate residency position in internal medicine with an affiliate hospital of Kings County/Downstate Medical Center in New York. Downstate Medical Center is ranked in the upper 10 percent of post-graduate residency training programs in the country. During her tenure at Downstate, she developed specific post-graduate interest in adult primary care. In addition, Dr. Kaur is a licensed to practice internal medicine in the state of Florida.

Currently, she is working as an assistant professor of medicine and biochemistry at UMHS. She is also pursuing scholarly work with Keck School of Medicine at the University of Southern California (KSMUSC). Concurrently, Dr. Kaur is a Master's candidate in the program of pain management at KSMUSC and is working on a review article "The History of Keloids."

THOMAS J. LAST, PH.D.

Professor of Biochemistry and Cell Biology

Dr. Thomas Last joined UMHS in 2009 as an associate professor of biochemistry and cell biology. He received his Ph.D. in Cell Biology from the University of Massachusetts Medical Center, and earned his B.S. in Biology from Rensselaer Polytechnic Institute.

Dr. Last was a research scientist at Matek Corporation in Massachusetts before becoming an assistant professor of cell biology and genetics at the Medical University of the Americas (MUA), Nevis. He was later promoted to associate professor and then assistant dean of the Basic Science Program at MUA.

ANGEL M. MATOS LUGO, M.D.

Director of Accelerated Review Program (ARP), Assistant Professor of Medical Education

Originally from Puerto Rico, Dr. Matos Lugo is a physician and educator who is passionate about medical education, mental health, and addiction medicine. He has practiced medicine in rural clinics, as well as public and private hospitals in Mexico. Other than administering the ARP and teaching, Dr. Matos is the chair of the UMHS Diversity and Inclusion Committee.

Dr. Matos Lugo earned his M.D. from the Autonomous University of Guadalajara in Mexico, and received his B.S. from the University of Puerto Rico in Río Piedras. He is currently pursuing an M.Ed. in Higher Education from Penn State.

Dr. Matos Lugo is the acting President of the Board of Directors for Santa María de los Ángeles Foundation in San Juan, Puerto Rico. SMAF is a non-profit organization that provides counseling, education, and prevention services aimed to reduce sexual behaviors that cause unintended pregnancy and disease among adolescents in Puerto Rico. He is also a member of the International Association of Medical Science Educators, the Human Anatomy & Physiology Society, the American Association of Anatomists, and the Association of Governing Boards of Universities and Colleges.

Immediately prior to joining UMHS, Dr. Matos Lugo was associate dean and human anatomy and physiology faculty member for the Universidad del Este School of Health Sciences in Puerto Rico, where he was responsible for health sciences programs on six campuses.

THOMAS MCCrackEN, PH.D. (H.C.), M.S., M.S., B.E.

Course Director and Professor of Gross Anatomy

An internationally known medical illustrator, Professor Thomas McCracken brings his unique and exciting expertise in 3D computer imaging to our anatomy and physiology classes. He has illustrated over 200 journal articles and textbooks, and was also involved in a National Institute of Health project to construct the 3D interactive computer models that are used by most U.S. medical schools.

Professor McCracken received an M.S. in Anatomy and Physiology from the University of Michigan, along with an additional M.S. in Biomedical Illustration, and a B.E. in Biology and Education. In 1996, he received an Honorary Doctorate in Clinical Sciences from Our Lady of the Rosary University in Colombia.

Prior to joining UMHS, Professor McCracken taught at Colorado State University and the King Faisal Specialist Hospital and Research Center in Saudi Arabia. He is a member of the American Association of Anatomists, the American Association of Clinical Anatomists, the Association of Medical Illustrators, the Federation of American Societies for Experimental Biology, and the Health Science Communication Association.

PRAKASH MUNGLI, M.D., M.B.B.S.

Assistant Dean of Student Affairs, Chair of Molecular Sciences, Course Director and Professor of Biochemistry

Dr. Prakash Mungli received his M.D. in Biochemistry from Manipal University in India and earned his M.B.B.S. from Gulbarga University in India. Formerly a family physician, he has more than 14 years of experience in medical biochemistry education, and has been a popular professor at UMHS since September 2011.

During his time here, he has earned several institutional awards, including Outstanding Professor of the Year and Most Inspiring Professor. Prior to joining UMHS, Dr. Mungli taught biochemistry, molecular biology, and genetics at St. Matthews University School of Medicine in the Cayman Islands.

Dr. Mungli uses creative teaching methods to make even difficult concepts easily understandable. He posts recaps of his lectures on YouTube and keeps students engaged through a Facebook group and blog called "Biochemistry Made Easy."

In addition to being a passionate teacher, Dr. Mungli is also actively involved in research. He has published 65 research papers in national and international indexed journals. His work has been cited in more than 50 indexed journals, and he has served as editorial board member and reviewer for six indexed journals. His work has also been presented at more than 20 national and international conferences. His current research interest is in medical education.

PINAKINI K. SHANKAR, M.D., M.B.B.S.

Course Director and Professor of Pharmacology

Dr. Pinakini K. Shankar received her M.D. in Pharmacology from Kasturba Medical College at Manipal University in India. She also earned an M.B.B.S. from JSS Medical College at Mysore University in India.

Her early medical-education career featured teaching positions in the Department of Pharmacology at Kasturba Medical College, and in the Department of Pharmacology at the American University of Antigua School of Medicine in Antigua.

Just before joining UMHS, Dr. Shankar was an associate professor and course director in the Department of Pharmacology and Clinical Therapeutics at the St. Matthew's University College of Medicine in Grand Cayman, where she taught, evaluated, and mentored students in preparation for the USMLE.

Dr. Shankar has been instrumental in initiating and serving as the principal investigator for phase III clinical trials. She also has research publications in reputed indexed medical journals and is an author for Cochrane Reviews. Dr. Shankar has also been a guest lecturer and presented at a variety of conferences and symposia.

FRANK WAGNER, PSY.D., M.A., B.S., B.B.A.

Chair and Professor of Behavioral Science

Dr. Frank Wagner is an experienced medical educator and administrator. For 23 years, he served as a senior administrator in mental health and substance agencies that provided clinical education to social work, psychology, and graduate-level students. Dr. Wagner came to the International University of Nursing (IUON), UMHS' sister institution, after holding the position of associate dean of student affairs at an international medical school.

At IUON, Dr. Wagner was dean of Student Services, where he focused on serving student, community, and government constituencies. He was instrumental in developing student leadership, implementing judicial affairs, and developing programs that brought cohesiveness to the student body.

In 2008, Dr. Wagner became assistant provost at UMHS. He played a key role in the introduction and expansion of UMHS' medical education program.

Dr. Wagner holds a Psy.D. from the International University for Graduate Studies, an M.A. in Clinical Psychology from Goddard College, a B.S. in Psychology from Loras College, and a B.B.A. in Management from Northwood Institute.

JAGADEESH NAGAPPA, M.B.B.S., D.F.M.

Associate Professor of Physiology

Dr. Jagadeesh Nagappa holds a D.F.M. from the Royal College of General Practitioners in the United Kingdom and an M.B.B.S. from Bangalore University in India. For many years, Dr. Nagappa held positions in departments of physiology, biochemistry, and physical diagnosis at medical schools in the Caribbean and the United Kingdom. Before he started teaching, he practiced medicine in India and in the Caribbean. In his most recent position prior to joining UMHS, Dr. Nagappa was an associate professor in the Department of Physiology, course director of Preclinical Sciences, and course director of Fundamentals of Clinical Sciences at St. Matthew's University School of Medicine in Grand Cayman.

ALFRED ROY, M.D., M.B.B.S.

Chair, Course Director and Professor of Pathology

Dr. Alfred Roy completed his basic medicine training and a residency in pathology at KMC Manipal in 1993. He then joined the University of West Indies twinning program at Manipal. The UWI program is a PBL-based curriculum for basic sciences.

In January 2000, he was selected as external examiner for UWI campus (St. Augustine) in Trinidad. In November 2000, Dr. Roy earned a two-year sabbatical posting as junior registrar at Princess Margaret Hospital, Nassau, the Bahamas. There, he assisted the Department of Pathology with surgical pathology, cytopathology, and autopsies while completing his training with the College of American Pathologists for gynecologic and non-gynecologic cytopathology. He was also involved with the clinical program of UWI in Princess Margaret Hospital.

In 1997, Dr. Roy was attached to another twinning program with Malaysia (Melaka University). He continued to be a faculty member of the Melaka twinning program after completing his two-year posting in Nassau. This program, too, was a PBL-based curriculum.

Dr. Roy also was appointed to the Medical Education Department in 1997, where he was involved in designing the PBL curriculum in pathology. He has conducted conferences and seminars in higher education for medical, dental, nursing, pharmacology, and engineering colleges in India.

Dr. Roy was attached to the KMC hospital as a surgical pathologist and cytopathologist. He was appointed unit chief for surgical pathology in 2005. Dr. Roy underwent training in dermatopathology and helped in histopathological and immunofluorescence reporting of skin biopsies.

During his tenure in Manipal, Dr. Roy taught pathology for medical, dental, and nursing students. In 2006, Dr. Roy joined St. Matthew's University School of Medicine, Grand Cayman. He was appointed as Curriculum Committee chairman and in charge of excellence in medical education. He conducted the monthly clinico-pathological (CPC) seminars.

In 2011, Dr. Roy returned to Manipal University as professor of pathology for the AUA Antigua program. In May 2013, Dr. Roy joined UMHS.

ABAYOMI AFOLABI, M.B.B.S.

Assistant Professor of Gross Anatomy

A native of Nigeria, Dr. Abayomi Afolabi has practiced medicine both in Nigeria and in the United Kingdom. He trained in one of the oldest and most respected medical schools in West Africa, the University College Hospital at the University of Ibadan in Nigeria.

Dr. Afolabi began teaching anatomy and embryology at the American University of Antigua, where he taught for about five years before moving to the United States to teach at various levels of the medical educational system in Connecticut.

He is a member of the American Anatomical Association and a certified physician with a master's in Human Anatomy and Physiology from the New York Chiropractic College.

IRIS M. SALTIEL, Ed.D.

Learning Skills Specialist

Dr. Iris M. Saltiel is the learning skills specialist and professor of medical education at the University of Medicine and Health Sciences. Prior to joining UMHS, Dr. Saltiel served as a professor and director of the Reboot program in the Education Department at the American University of Antigua (AUA). Prior to AUA, she was at Columbus State University in Georgia, serving as a professor in the department of foundations and educational leadership, and, director of the Faculty Center for the Enhancement of Teaching & Learning. Prior to CSU, she served at Troy University as director of the Quality Enhancement Institute and professor in the College of Education. Before Troy, she served as the director of corporate programs at Thomas Edison State University in New Jersey.

She completed her doctoral studies in education administration and supervision at Fordham University in New York, NY. She had previously completed her M.Ed. in Adult Education at Rutgers University in New Brunswick, New Jersey and a B.S. in Special Education at Trenton State College in Trenton, New Jersey. She has also participated in post-doctoral coursework in interdisciplinary qualitative studies at the University of Georgia.

As a scholar, Dr. Saltiel's work has primarily been in the area of collaboration among adult learners, faculty, and the organization (corporate, nonprofit, higher education). Her primary research interests have centered on adult learners and collaboration, as well as partnerships in learning. As a professor at Troy University in 2010, she was selected to receive the annual Wallace D. Malone Distinguished faculty award in recognition of her work with students, the community, her scholarship, and university-wide leadership as the founding Director of the Quality Enhancement Institute. Currently, her research interests include an exploration of a marriage as a partnership of lifelong learning, and remediation in medical school.

GEORGE H. SHADE JR., M.D.

Dean of Clinical Science, Professor of Clinical Medicine

Dr. George Shade is a board certified obstetrician-gynecologist with an M.D. from Wayne State University School of Medicine. He is an associate professor at Wayne State University School of Medicine, Michigan State COM, and UMHS. Dr. Shade brings his experience as the director of resident education for St. John Health Detroit Riverview Hospital, chief of OB/GYN for several major hospitals in the Detroit Metropolitan Area, specialist in chief for the entire Detroit Medical Center, and chief medical officer at major hospitals in Michigan, Indiana, and Detroit Community Health Connection, Inc. He has also served as chief quality officer for the entire Detroit Medical Center.

Involved in clinical research throughout his career, Dr. Shade has several publications, and has lectured extensively on a local and national level. His primary area of research has been endometriosis, but he also developed programs in minimally invasive surgery for St. John Health and the Detroit Medical Center.

Dr. Shade has received numerous civic service awards and academic awards for scholarly achievement and teaching. He has served on state and local boards, hospital boards, and committees. He has also been very active in the state and county medical societies in Michigan.

PATRICE THIBODEAU, M.D.

Director of Introduction to Clinical Medicine II

Dr. Patrice Thibodeau earned her M.D. at the University of Chicago, Pritzker School of Medicine. She did a four-year residency in internal medicine and pediatrics at the University of Rochester, and spent an additional year as the internal medicine chief resident before opening up a practice in Webster, NY. In 2001, Dr. Thibodeau moved from New York back to her native state of Maine, where she spent 13 years working at Maine Medical Center as the director of the Internal Medicine-Pediatrics Residency Program. She was also a teaching physician for residents and medical students in the outpatient clinics, in the newborn nursery, and on the inpatient wards.

Dr. Thibodeau is certified by the American Board of Internal Medicine and the American Board of Pediatrics. She has a special interest in primary care of both adults and children, as well as in teaching. Dr. Thibodeau is currently the director of the fifth semester Introduction to Clinical Medicine course on the Maine campus.

MOHAN KUMAR, M.D., M.B.B.S.

Chair, Course Director and Professor of ICM and PD

Dr. Mohan Kumar holds an M.D. in Forensic Medicine from Kasturba Medical College in India, as well as an M.B.B.S. from JSS Medical College at Mysore University in India.

Dr. Kumar has been actively involved in medical education in various capacities since 1997. He began his career as an assistant professor at Manipal University in India, where he not only taught medical students, but also conducted forensic autopsies, examined skeletal remains, visited crime scenes, and attended court to give his expert opinion. He was also the honorary forensic medicine consultant for the government and assisted in crime investigations.

Prior to joining UMHS in 2011, Dr. Kumar served as an associate professor of pre-clinical sciences at St. Matthew's University (SMU) in the Cayman Islands. He also taught anatomy as an associate professor at American University of Antigua.

Dr. Kumar has 17 publications in various international journals and websites. Presently, he is the course director of Physical Diagnosis (PD) and associate professor of Introduction to Clinical Medicine (ICM) courses at UMHS. He has also been actively involved in various committees including the admission, disciplinary, and information management committees; has served various medical associations, including the Surgical Society of SMU; and was faculty advisor for the American Medical Student Association at UMHS.

DONNA THOMPSON, M.D.C.M.

Assistant Dean of Clinical Science, Professor of Clinical Medicine

Dr. Donna Thompson is a member of the American Board of Internal Medicine. She earned her undergraduate degree from Colby College in Maine and received her M.D.C.M. from McGill University College of Medicine in Canada. She completed her internal medicine residency both in Canada and at the Maine Medical Center, in Portland, Maine, where she also completed a clinical fellowship and a research fellowship in oncology.

Dr. Thompson's extensive medical background includes positions as director of the Division of Oncology and chief of the Department of Medicine at Central Maine Medical Center. She also was the director of the Cancer Research Program at the Foundation for Blood Research in Maine.

Dr. Thompson's medical education background is just as extensive. She was an assistant in medicine at Tufts University in Massachusetts; an instructor in the biology of cancer at the University of Southern Maine; and a clinical preceptor and associate professor in the Department of Pharmacology at St. Matthew's University School of Medicine in Grand Cayman. She was also an associate professor in pre-clinical medicine and director of Introduction to Clinical Medicine, as well as the chief of clinical medicine in pre-clinical sciences at St. Matthew's.

ISHRAT WAHEED, M.Phil., Ph.D.

Professor of Cell Biology, Biochemistry, Immunology, Genetics, and Pharmacology

Dr. Ishrat Waheed received her Ph.D. in Pharmacology and Molecular Sciences from Johns Hopkins University School of Medicine. She completed her postdoctoral fellowship training in antiviral, anticancer, and human gene therapeutics, at Johns Hopkins Medicine, National Cancer Institute, and Montreal Neurological Institute at McGill University, respectively. She also holds MS and M. Phil. (summa cum laude) degrees in Biochemistry and Molecular Biology from Quaid-e-Azam University, and a B.Sc. (summa cum laude) in Biology and Chemistry from the University of the Punjab, Pakistan.

Dr. Waheed has over two decades of international experience in teaching, advising, research, administration, and scientific consulting in biomedical and pharmaceutical sciences. She served as professor, chair, and research director of pharmacology and molecular sciences at Riphah International University, and other top-tiered universities in Pakistan. Prior to joining UMHS, she had taught biomedical sciences at the University of Alberta, University of Calgary and Evergreen College in Canada.

Dr. Waheed has multidisciplinary research interests including discovery of molecular and natural therapeutics for microbial, immune, respiratory, metabolic and genetic disorders. She has published numerous articles in international research journals.

DEBORAH WILLIAMS, M.D.

Professor of Pathology

Over the course of her career, Dr. Deborah Williams has used her medical background to increase health care access and diversify the health care field. She stands out as the founding CEO of the nonprofit organization Globalscope, which works to improve health care education and service in communities around the world. Dr. Williams takes an active role in many such projects, both domestically and abroad, formerly serving as the co-principal investigator of the New York Community Trust and as a program evaluator for the HIV Prevention Project with Tribal Colleges and Universities. In 2014, she received the Most Phenomenal Woman Award from the New York chapter of the National Association for the Advancement of Colored People (NAACP). Over the course of her career, she has received \$1.5 million in extramural funding.

Dr. Williams entered the medical profession as a graduate of the State University of New York's Downstate Medical School, received her Ph.D. from New York University in the Department of Molecular Parasitology, then completed her postgraduate studies in surgery and surgical pathology. She subsequently served as a postdoctoral fellow in the Mount Sinai School of Medicine's Department of Pathology and entered the teaching profession as an assistant professor of pathology at the New York College of Osteopathic Medicine.

Dr. Williams was associate professor of pathology and director of the graduate programs in biological and physical sciences and interdisciplinary studies at the Touro College of Osteopathic Medicine. In addition, Dr. Williams held a position as associate professor of pathology at Touro College of Pharmacy, where she led the Collegiate Science and Technology Entry Program (CSTEP).

She has authored several research articles that have been published in journals such as the Journal of American Cardiology.

LATA GOWDA, M.P.T., B.P.T., B.A.

Human Simulation Coordinator

Lata Gowda comes with more than 10 years of experience in the areas of simulation and standardized patient programs. She received her Bachelor of Physiotherapy in 2000 from Jawaharlal Nehru Medical College, Belgaum, India, and went on to work in Manipal University as a pre-med instructor and anatomy lab demonstrator.

Between 2003 and 2006, Gowda earned a Master of Physiotherapy with a specialization in orthopedic and sports medicine from S.D.M. College of Physiotherapy in Dharwad, India.

She then joined St. Matthew's School of Medicine, Grand Cayman in 2006 as coordinator for clinical skills lab, simulation, and standardized patient program. She joined Ross University, Bahamas in 2009 as a simulation coordinator, and then moved to the Dominica campus to teach with the cardiopulmonary simulator, Harvey, for more than two years. Later, she worked for standardized patient program.

In May 2015, she joined UMHS as human simulation coordinator. She is a member of the Association of Standardized Patient Educators and Society for Simulation in Health Care.

POLICIES AND PROCEDURES

ACADEMIC POLICIES

The University of Medicine and Health Sciences publishes the UMHS Student Handbook of Policies and Procedures each semester. This information is provided to all incoming students and it is also available on the student portal. The UMHS Student Handbook supersedes information provided in this catalog, and the UMHS Student Handbook information on academic policies is binding upon all students. It is the responsibility of the student to be aware of all regulations contained in the UMHS Student Handbook and any changes or modifications. Only a brief overview of academic policies and procedures is contained in this publication.

REGISTRATION OF NEW STUDENTS

Students will pre-register for courses through the student portal at the designated time determined by the Office of the Registrar. At the beginning of each semester, all students must confirm their registration in person prior to the start of classes. Any specified documentation upon which the student's admission is contingent must be on file at that time. If essential documentation is not provided, the student will not be permitted to confirm registration and may be administratively withdrawn. Registration is not complete and enrollment is not official until tuition and fees are paid in full and confirmation is completed. Failure to make scheduled payments or arrange payments through the Office of the Bursar when they are due will result in cancellation of the student's registration. It is the student's responsibility to ensure that payment is received in the Bursar's office by the established due dates announced each semester. Questions regarding tuition and fees, payments, returned checks, late fees, refunds, etc., should be directed to the UMHS Office of the Bursar.

Students who register after the first day of classes are responsible for all prior materials and assignments presented in class. No student will be allowed to register after the close of registration, which is typically at the end of the first week of classes (see Academic Calendar on page 1). Students arriving after that time will be required to register for the subsequent semester.

GRADING

Basic Science Program: A passing grade of 70% (equivalent to a grade of C) is required in all courses. Any grade below 70% is considered failing (equivalent to a grade of F). Students must maintain a minimum cumulative grade point average of 2.0 in order to make satisfactory academic progress. Students who receive a grade of F in any course will be placed on academic probation. Failure to pass a repeated course with a grade of C or better is grounds for dismissal from the medical program. Maximum time frame for completion cannot exceed 150% of the required credits for graduation.

GRADE EQUIVALENT GRADE QPA

LETTER GRADE	NUMERICAL GRADE	QPA
A	90 and above	4.00
B	80 – 89	3.00 – 3.90
C	70 – 79	2.00 – 2.90
F	0 – 69	0.00
P	70 and above	0.00
I		0.00
W		0.00

PRECLINICAL/CLINICAL

RESULT OF MEASURES: (TOTAL POINTS DIVIDED BY 8)	TRANSCRIPT LETTER GRADE:	QUALITY POINTS:
3.70 - 4.00	A	4.00
3.30 - 3.69	B+	3.50
2.70 - 3.29	B	3.00
2.30 - 2.69	C+	2.50
2.00 - 2.29	C	2.00
<2.00	F	0.00
Absence of Log Book and/or Passing Core Subject Exam	I	0.00
Withdrawn	W	0.00
Audit/Observation	AU	0.00
No Show Failure	NF	0.00
Not Attend Withdrawal	NW	0.00

Clinical Science Program: Evaluations during the Clinical Science Program segment of the curriculum include an assessment of the ACGME Core Competencies, which are not only part of the student's mastery of course objectives, but also the characteristics considered desirable in a good physician. These competencies include problem-solving ability, industry, reliability, judgment, interpersonal relationships, professional skills, and motivation. Students who receive more than one failing grade in any required or elective clerkship are subject to dismissal.

Failing Grade: A student who receives a failing grade of F in any Basic Science course or clinical rotation must repeat the course and receive a passing grade in order to progress. A course for which an F is awarded is included in the term GPA and cumulative GPA (CGPA). When the student repeats the same course or rotation with a passing grade, the failing grade F will no longer be calculated in the CGPA. However, the grade of F will remain on the transcript and in the term of the GPA.

Incomplete Grade: An incomplete grade, I, signifies that not all required coursework was completed during the term of enrollment. The I grade is not calculated into the term GPA or the cumulative GPA at the time it is awarded. If the student receives an I, all required coursework must be completed on or before the first day of classes of the subsequent term. Students with incomplete grades will not be permitted to register for the next term until all requirements have been satisfied. If course requirements are not satisfied by the deadline date, the I grade will be changed to an F.

Semester Credit Hours (Basic Sciences): One hour of classroom or direct faculty instruction over the course of a semester (15 weeks) equals one semester credit hour. The total Basic Science credit hours consist of 100 credits.

In the Clinical Sciences program, one week of rotation is equal to one credit. Each semester consists of 15-16 weeks of rotations for a total of 48 core rotation weeks and 30 elective weeks. Student duty hours at each hospital site should follow the ACGME standard that limits duty hours to not exceed 80 hours per week, averaged over a four-week period, inclusive of all in-house call activities.

COMPETENCY EXAMINATIONS

Course Examinations: With the exception of students on an approved leave of absence, all students are expected to sit for scheduled examinations. Students unable to do so by virtue of illness must present documentation that they were under the care of a physician at the time of the examination. The form of the makeup examination will be at the discretion of the course instructor. In lieu of a makeup examination, the individual instructor may elect to average all of the student's other examinations in the course and use the averaged examination score in place of the missed examination.

Shelf Examinations: UMHS has been approved by the National Board of Medical Examiners to administer the online shelf examinations in St. Kitts. Shelf examinations are integrated into the Basic Science Program and are offered as final examinations in many of the courses. These examinations are, in essence, mini USMLE examinations, as they use a similar type and style of questions.

Core NBME: NBME exams assess knowledge gained during a core rotation. Students are required to complete a core NBME subject exam within two weeks after the completion of each core rotation, including internal medicine, surgery, OB/GYN, pediatrics, psychiatry, and family medicine.

USMLE: To enter into UMHS clinical rotations, students must successfully complete and pass the USMLE Step 1. This examination is taken after the Maine fifth semester and before advancing to the sixth semester. To receive a diploma from UMHS, students must complete the USMLE Step 2, which consists of two parts: Clinical Skills (CS) and Clinical Knowledge (CK). These examinations are usually taken after completing the core clinical clerkships. USMLE Step 3 is the final step for licensing and is taken after graduation and during or at the completion of residency training.

ECFMG: In order to be licensed to practice medicine in the United States, graduates must be certified by the Educational Commission for Foreign Medical Graduates (ECFMG). To be certified by ECFMG, students must pass USMLE Step 1 and Step 2 CS and CK, which is also a requirement for graduation.

STUDENT PROGRESS

Attendance: Attendance is mandatory for 80 percent of all classes and 100 percent of all labs, examinations, and clinical clerkships. Unavoidable and/or unexcused absences are addressed on a case-by-case basis. However, excessive lateness or absence from a course may result in a failing grade. Students who require an extended absence from class may request a Leave of Absence (emergency or academic).

Basic Science Program—Satisfactory Academic Progress: Student academic progress is considered satisfactory if the student has passed all courses, course examinations, and shelf examinations within the allotted time frames. This metric is used for both academic assessment, as well as financial aid eligibility. Taking a leave of absence or withdrawing from classes may

negatively impact a student's satisfactory progress. A minimum GPA of 2.0 must be maintained for each semester, and a cumulative minimum GPA of 2.0 must be maintained throughout the academic program. Failure to do so will result in academic probation. A minimum of C is required in all courses. Students receiving an F in any course are eligible to repeat that course only once. Failure to pass a repeated course with a grade of C or better is grounds for dismissal. The student must also have adhered to all UMHS rules and regulations and be current with all financial obligations.

Clinical Science Program—Satisfactory Academic Progress: Progress in the clinical science program is considered satisfactory if the student has passed the USMLE Step 1, Step 2 CK and CS and successfully completed all clinical rotations within the allotted time frames. The student must also have adhered to all UMHS rules and regulations, and remained current with all financial obligations.

All progressions, probation, dismissal, suspension, and censure determination are made by the Dean of the Basic Science or Clinical Science Division based on receipt of verifiable information from the Registrar's Office, Promotions and Appeals Committee, Grievance Committee, or any faculty. One of more of the following actions may be taken, as appropriate:

1. No progression in failed courses until the course(s) is/are successfully repeated.
2. Academic probation due to overall and or semester grade point average below a minimum 2.0 GPA.
3. Academic probation due to earned grade in a required course less than a minimum grade required for program of enrollment.
4. Administrative probation due to violation of the profession conduct code.
5. Removal from probation.
6. Censure by written letter. Censure is defined as the finding that a student has committed an offense warranting discipline. It is a matter of record.
7. Suspension from UMHS.
8. Dismissal from UMHS.

The terms placed on the student's transcript for the appropriate semester might include "academic dismissal" and "academic suspension." Notations of "administrative probation," "placed on probation," "continued probation," and "good standing" may be placed in the student's permanent record. Specific academic criteria and the appeals process are outlined below and in the student handbook.

ACADEMIC PROBATION

A student who receives a failing grade in any course during the Basic Science program will be placed on academic probation for the following term. If the student successfully passes the course(s) in the probationary term, and the student's cumulative GPA is 2.0 or greater, the probation designation will be lifted. However, any subsequent failure in a repeated course or during a probationary term will be considered grounds for academic dismissal. Any student with a cumulative grade point average below 2.0 will remain on Academic Probation until the student's GPA reaches or exceeds 2.0. During the Clinical Science portion of the curriculum, the student will be placed on probation if a failing grade is received in any required or elective rotation. A student who fails a repeated rotation or fails two rotations will be academically dismissed.

CRITERIA FOR PLACEMENT ON ACADEMIC PROBATION

Any student who fails a course will be placed on academic probation and must repeat and pass that course during the following semester.

Any student who earns a GPA of less than 2.0 for a semester will be placed on probation.

Any students who is not able to complete the Basic Science Program within 150 attempted credits (150% of program) will be placed on probation.

Any students who is not able to complete Clinical Sciences Program (semesters 5 through 10) within 133 attempted clinical weeks (150% of program) will be placed on probation.

Any incoming student may be placed on academic probation by the Admissions Committee or the dean as condition of their admission into the medical program.

Emergency Absence: An emergency absence is a temporary interruption in a student's education for a specific period of time. An approved emergency absence is generally no longer than two weeks. Students who fail to return from an approved leave within the designated timeframe will be administratively withdrawn from UMHS.

Unauthorized Leave of Absence: An unauthorized leave of absence is a leave that has not been approved by UMHS. In this case, UMHS reserves the right to administratively withdraw the student. Should that happen, the student must reapply to UMHS.

Non-Academic Dismissal: Violations of UMHS regulations, Code of Ethics, or legal expectations may constitute cause for dismissal. These types of violations will be adjudicated under the procedures outlined in the Student Handbook under "Non-Grade Grievances." Such information will be listed on the academic transcript.

Academic Leave of Absence: An academic leave of absence is a temporary interruption in a student's education for a specific period of time. An approved academic leave of absence may not exceed 180 days. Students may only take one leave of absence in a 12-month period.

CRITERIA FOR DISMISSAL FROM THE PROGRAM

Students may be dismissed from UMHS for any of the following reasons:

- Failing three courses in the Basic Science Program
- Earning an F in two or more courses in the same semester
- Earning an F in the same course or rotation twice
- Earning an F in a course or rotation while on academic probation
- Failure to complete the Basic Science Program within 150 attempted credits (150% of the program)
- Failure to complete semesters 5 through 10 within 133 attempted clinical weeks (150% of the program)
- Failure to pass the USMLE Step 1 or Step 2 within three attempts

WITHDRAWALS

Student Withdrawal: Students may withdraw from the University by obtaining a Withdrawal Form, available on the Student Portal or from the Registrar's Office. The official withdrawal date is defined as the date it was determined that the student did not intend on returning to class. This action is commonly referred to as Date of Determination (DOD). The last date of attendance reflects the last date the student attended class, commonly referred to as Last Date of Attendance (LDA). The LDA is posted to the student's transcript and reported to lenders. Any loan originators will be notified of such a withdrawal, and the student will be responsible for any financial obligations resulting from the withdrawal. The last date for withdrawal with a grade of W is the Wednesday the week after Block 3 exams. If a student withdraws on or before this date, he/she receives a W for the course(s), which does not affect GPA, and does not place the student on academic probation.

Administrative Withdrawal: UMHS may withdraw a student for failing to register for classes or rotations, for not meeting academic and exam program timelines, for not submitting requested documentation, for not meeting University Policies, or at the discretion of the provost, deans, or designee for conduct, behavior, or health issues. The effective date of withdrawal will be the last day the student attended classes. Any loan originators will be notified of such a withdrawal, and the student will be responsible for any financial obligations resulting from such a withdrawal.

Re-Admission: Students may reapply to UMHS by completing an admissions application and indicating they were previously a student. The application should include a written statement explaining the circumstances leading to the withdrawal. Additional information, such as medical documentation, letters of support, etc., may be submitted to further explain the circumstances. If any other college or university was attended since the last enrollment at UMHS, official transcripts must be submitted along with the application. Students failing at the time of withdrawal from UMHS will have their applications reviewed by the Registrar's office in New York and by the faculty Admissions Committee.

If a student has been withdrawn from UMHS for less than one year and is in otherwise good standing, they may reapply through the Registrar's Office by completing a re-acceptance application and providing supporting documentation as requested.

Re-admission is solely at the discretion of UMHS, and re-admission is not guaranteed. Students who are re-admitted to UMHS, will be required to adhere to all tuition policies/rates and all academic policies that are in effect at the time of re-admittance.

CODE OF ETHICS

The honorable profession of medicine requires students to behave appropriately at all times. Students must comply with professional standards of medicine, in both personal and professional aspects of life, in order to maintain a professional learning environment during enrollment at UMHS. Students are expected to function within the framework of the American Medical Students Association Code of Ethics, which is contained in the Student Handbook.

LIABILITY POLICIES

Policy on Hazing: No student in attendance at UMHS shall conspire to engage in hazing, participate in hazing, or commit any act that causes, or is likely to cause, bodily danger, physical harm, or personal degradation or disgrace resulting in physical or mental harm, to any fellow student.

Violation of this policy may result in disciplinary action against the student who is alleged to have committed the act, as well as the student organization that allowed the act to be committed. Such acts may also violate the laws of St. Kitts and, as such, may result in criminal sanctions as well. As part of their registration process with UMHS St. Kitts campus, all students shall be required to submit an attested acknowledgment stating that they have been informed of the policy, understand its implications, and further agree not to engage in hazing activities.

Policy on Sexual Harassment: UMHS considers sexual harassment, in all its forms, to be a serious offense and one that is subject to a range of actions up to and including suspension or dismissal. Sexual harassment by students, faculty, or staff is a violation of UMHS policy and is prohibited under Title VII of the Civil Rights Act of 1964, as amended, and Title IX of the Education Amendments of 1972.

Policy on Alcohol and Drugs: The unlawful possession, use, or distribution of alcohol and/or illicit drugs on any institutional property is prohibited. Students who believe they have a drug or alcohol problem may contact a University counselor for a confidential assessment, counseling, or referral for treatment.

DISCIPLINARY ACTIONS

If a student's behavior necessitates disciplinary action, that student may be suspended or dismissed by the dean. Students have a right to appear before the grievance committee on issues that give rise to disciplinary action. The committee makes a final determination and provides its recommendation to the dean. This may occur due to academic or non-academic violations, including criminal action or failure to meet academic or ethical standards.

Suspended or dismissed students will receive written notification of the reason for such action. Suspended students will be informed of any available options for reinstatement. Dismissal decisions may be appealed. Suspensions or dismissals may affect student aid.

GRIEVANCE POLICY

UMHS expects students, faculty, and administrators to be responsible for maintaining personal, professional, and institutional standards in order to bring a positive reflection upon themselves, the school, and the medical profession. To that end, faculty, students, and administrators are responsible for reporting any allegation to the dean. Such reports must be in writing (signed and dated by the person making the report or allegation), and should describe the nature and specifics of the alleged conduct and the code or standard believed to have been violated.

Violations of, but not limited to, the following may be reported:

1. Academic integrity and professional standards as set forth in the respective sections of the UMHS Student Handbook.
2. American Medical Students Association Code of Ethics and/or UMHS policies. If a hearing is requested, the Hearing Procedure in the Student Handbook will be followed.

It is the goal of UMHS that your time as a student be educational and enjoyable. If a student believes he or she has been treated unfairly or has a complaint, he or she should follow the procedures outlined in the Student Handbook. It is our commitment to all students that any concerns will be addressed in a timely manner.

GRADUATION INFORMATION

GRADUATION CEREMONY

Formal commencement exercises are held once a year in New York City, typically in June at Alice Tully Hall, Lincoln Center. All guests must have a ticket to attend the ceremony. Guest tickets and an itinerary for the ceremony will be sent out to graduating students in mid-May of their graduation year. For further details, refer to the graduation memo on the Student Portal.

GRADUATION REQUIREMENTS

The following requirements must be met in order for a student to graduate from UMHS with an M.D.:

Successfully complete all required Basic and Clinical Science courses with a minimum grade of C.

- Receive a passing score on USMLE Step 1 and USMLE Step 2 CK and CS.
- Maintain a minimum cumulative Grade Point Average of 2.00.
- Ensure all required administrative documents are on file.

Formal commencement exercises are held once a year in New York City, typically in June.

However, there are four completion dates per year, which administratively acknowledge graduation.

Diplomas will not be released unless all outstanding balances, administrative documents, clinical evaluations, and scores from the USMLE Steps 1 and 2 (CK and CS) have been received and a final degree audit has been cleared by the Office of the Registrar.

GRADUATE RESIDENCY TRAINING

Fourth-year UMHS students pursue post graduate residency positions in prestigious hospitals throughout the United States, Puerto Rico, and Canada. After graduating, students begin their internship year alongside their United States and Canadian counterparts as practicing Doctors of Medicine (M.D.) in numerous specialties and in diverse residency training programs.

MATCHING IN A UNITED STATES OR CANADIAN RESIDENCY

Like students from U.S. medical schools, UMHS students apply for residencies through the National Residency Matching Program (NRMP) in order to obtain a position, or “Match,” in the United States. Canadian students have the option of applying to Caribbean Residency Matching Service (CaRMS) alternatively, or in addition to, the United States NRMP program.

Students prepare and submit applications to the Electronic Residency Application Service (ERAS) in the summer or fall prior to the match year in order to interview with prospective programs between September and January. Canadian students follow a similar schedule through CaRMS.

In February, students submit rank lists of their preferred programs to the NRMP and CaRMS. Similarly, programs submit lists of their preferred applicants. Both the NRMP and CaRMS then apply an algorithm to determine a match based on those preferences, releasing those results to student in March, prior to graduation.

Although students apply to residencies during their fourth year, in order to begin practice in a U.S. program, students must pass the USMLE Step 1, Step 2 CS and CK, complete the UMHS clinical curriculum, and receive their diploma and Educational Commission for Foreign Medical Graduates (ECFMG) certification.

A certificate from ECFMG assures a foreign medical school and its students that they have achieved a comparable acumen to United States institutions and meet the standard expect from the United States residency programs.

Canadian students are also required to pass the MCCEE Medical Council of Canada Evaluating Examination (MCCEE) and the National Assessment Collaboration (NAC) examination in order to meet the requirements of most Canadian residency programs.

AT UMHS

FACILITIES

INSTRUCTIONAL SITE LOCATIONS

BASIC SCIENCE PROGRAM

St. Kitts Campus (Semesters 1–4)

Students complete the Basic Science Program at the UMHS campus in St. Kitts and learn from highly credentialed faculty recruited primarily from the United States. Here, teaching modalities range from classic lectures to learning in small group settings.

A compelling differentiator at UMHS is the access students have to a variety of clinical settings and relevant clinical material throughout the Basic Science Program, beginning in their first semester. For example, our 24-bed virtual hospital—equipped with the latest in human-computer simulation technology—gives students a platform to discuss medical issues in small teams, learn physical diagnoses, and develop clinical skills in a safe and standardized environment.

In addition to the virtual hospital, UMHS students have access to community health centers, local hospitals, and professional and real patients.

CLINICAL SCIENCE PROGRAM

Portland, Maine (Semester 5)

Clinical students transition to scenic Portland, Maine, in the United States, for their fifth semester. Maine was selected by UMHS because of its long tradition of providing quality health care and its demonstrated excellence in medical education. UMHS has developed a modern teaching facility that is strategically located within close proximity to several teaching hospitals, clinics, and housing. It contains a state-of-the-art classroom, skills laboratory, study area with computer connectivity, examination rooms, student lounge, and faculty offices.

The fifth semester consists of two required courses that include a USMLE review component through Kaplan Medical, which is considered one of the premier review programs in the United States.

The USMLE review provides additional support to ensure students have every opportunity to pass USMLE Step 1 with competitive scores. Students must pass USMLE Step 1 to progress to the sixth semester. For a listing of course descriptions, please visit umhs.org/clinicalprogram.

CLINICAL ROTATIONS (SEMESTERS 5–10)

Students complete the Clinical Science Program in the United States and Canada. UMHS is affiliated with more than 20 teaching hospitals in New York, Connecticut, Georgia, Illinois, Michigan, Maryland, Oklahoma, Canada, and Puerto Rico. For a full listing of our affiliates and course descriptions, visit umhs.org/clinical program.

ST. KITTS FACILITIES

The fully networked campus is a cornerstone of a modern medical school. UMHS operates one of the newest and most technologically advanced campuses in the Caribbean, with facilities incorporating technology on the cutting-edge of health care instruction. Our students can access educational software, faculty presentations, and extensive online resource databases from virtually any location.

Auditorium

The innovative, 210-seat auditorium is equipped with 56" LED monitors, high-definition LCD projectors, an ELMO® presenter, Symposium, and additional equipment designed to enhance the instructor's presentation.

Multipurpose Laboratories

Two modern, 100-seat multipurpose laboratories house cutting-edge technology, including audiovisual equipment, high-definition 52" LED monitors, ELMO® presenters, computers for presentations, Symposiums, and projection microscopes. One of the laboratories is also equipped with a significant collection of anatomical models for student use.

Anatomy and Neuroanatomy Laboratories

Our 11,000-square-foot, state-of-the-art anatomy building contains both neuro and gross anatomy laboratories. The gross laboratory is furnished with approximately 20 dissection tables, and there is a 6:1 ratio of students to cadavers. A prosected cadaver is utilized for demonstration purposes and is viewed over 20 high-definition LED monitors stationed at the end of each student's cadaver work table. Power poles are also placed at the end of each cadaver table for students who want to connect to our anatomical database on a laptop or tablet.

Human Simulation Laboratories

UMHS is a leader in the use of human simulation models. Our Human Simulation Laboratories are designed with the functionality and appearance of a hospital ward or clinic. We utilize a variety of both low- and high-fidelity simulators, including iStan®—the most advanced, realistic, wireless human simulator available today. It has the capability of providing jugular vein distention, bilateral chest movement, real breath, heart, and bowel sounds, and articulated motion.

Classrooms

There are smaller classrooms and break-out rooms throughout the campus, designed to offer closer interaction between faculty members and students for a more personalized educational experience. These spaces are used for small group instruction, seminars, group study, and problem-based learning sessions.

Library and Learning Resource Center

The Anne Ross Library and Learning Resource Center (LRC) is designed to provide students with an atmosphere for quiet study. The library houses an impressive collection of multimedia, books, and journals in both hard copy and electronic formats. It has break-out study rooms equipped with computers and audiovisual equipment.

All desks and individual study carrels in the library are laptop ready. The LRC houses more than 50 computers for student use. Library and LRC staff are available to assist students with research, information retrieval, and technology-based questions.

Campus Bookstore

The bookstore carries textbooks, study guides, diagnostic and surgical tools, and other essential items.

Café

The café is open throughout the day for meals, snacks, and refreshments. We also have a vendor on campus that offers a diverse variety of food.

Gym

Our full-service gym offers a variety of Life Fitness and Cybex machines, including treadmills, ellipticals, stationary bicycles, free weights, and more. Our recently constructed basketball court can be utilized throughout the day and evening.

PORTLAND MAINE CAMPUS: FIFTH SEMESTER

Students return to scenic Portland, Maine in the United States for their fifth semester. The Portland facility is state-of-the-art. The facility contains a learning resource center with library access, a skills laboratory, examination rooms, classrooms, a student lounge, and faculty offices. The UMHS campus is located in close proximity to several teaching hospitals, clinics, and housing in the Portland area.

STUDENT SERVICES AND CAMPUS AMENITIES

CAMPUS SAFETY AND SECURITY

UMHS takes the safety and security of its students, faculty, and staff very seriously. There is a full-time security staff, and security office on campus to assist students with any questions or concerns. Students are required to obtain a University identification card when they first register for classes. Students must show their identification card to enter the campus, and the card must be visible on the student at all times while on campus.

ISLAND SAFETY

St. Kitts is a relatively safe island; however, we urge students to exercise normal precautions, as if they were visiting any large city. The people on the island are generally very welcoming and friendly. As with any country or region that suffers higher rates of poverty, crimes of opportunity and desperation do happen. Be aware of local surroundings and avoid opportunistic crimes by not leaving valuables unattended or doors unlocked. The University's full-time security force will come to a student's aid at any time of the day or night, and in any location on the island.

MEDICAL HEALTH CARE

The UMHS Health Care Clinic is located on campus, and is staffed with a registered nurse who provides students, faculty, and staff with medical care or referral for additional medical services. St. Kitts has health clinics located throughout the island. The main hospital in St. Kitts is the Joseph N. France General Hospital in Basseterre, which is less than a two-minute drive from the campus.

HEALTH INSURANCE COVERAGE

Every UMHS student is required to maintain health insurance coverage, as well as emergency evacuation insurance that is used to transport an ill student to the closest U.S. hospital. Students can opt out of the University medical insurance plan with proof of insurance. However, all students are required to have the University evacuation insurance.

MENTAL HEALTH CARE

The mental health of UMHS students and faculty is of vital importance. The University takes several steps to ensure that students are taking preemptive measures to maintain their mental well-being. For immediate needs, an on-campus counselor is available to speak with and treat students. If a student's mental health issues cannot be resolved by the University, a referral to an appropriate mental health care provider will quickly occur.

CAMPUS SUPPORT SERVICES

Support services are provided to help counteract academic concerns, poor health, stress, or other problems that may negatively impact the educational process. Each student is assigned a faculty advisor to provide educational support and guidance when determining future career goals. The University also has a well-structured tutoring program in place for students that need additional academic help.

The promotions committee tracks each student throughout the semester and will identify students that are having academic difficulty. Students will be called into the Dean's office to address any issues and to develop an action plan to remediate any deficiencies. As a result of our early detection plan, we have been able to maintain an extremely low attrition rate of 4 percent. In addition, the faculty at UMHS are fully dedicated to the success of our students and have daily office hours to meet with students that have questions and concerns.

TECHNOLOGY SUPPORT

The UMHS campus has an advanced computer and communications network that is managed by the Information and Technology Services (ITS) Department. The ITS Department is comprised of professionally trained, experienced, and dedicated staff members who are focused on providing responsive support.

This team supports the University hardware, software, peripherals, shared database systems, and multimedia equipment. The ITS Department provides all students with access to the Wi-Fi network and a UMHS email account.

DISABILITY ACCOMMODATIONS

UMHS attempts to provide reasonable accommodations to students with disabilities. The University strives to enable students with disabilities to assist themselves in achieving their educational goals and enhancing their leadership development through participation in the facets of campus life.

Students with disabilities may be required to provide documentation of the disability. The cost of assessment and documentation is the student's responsibility. Assessment services may not be available in St. Kitts and may need to be procured in the United States or Canada.

RESIDENTIAL LIFE

The UMHS campus has a vibrant atmosphere, evoking a collegial environment. The students, faculty, and staff members are all dedicated to medical education.

HOUSING

All student housing in St. Kitts is off-campus and is made up of various options located throughout the island. There is a wide variety of housing to satisfy any student's need. Housing stock includes apartments, houses, hotels, and dorm-like facilities. There are many housing options within

walking distance to campus. The University's bus service shuttles students to and from campus that live outside of walking distance. The University Housing Department assists students, faculty, and staff members in locating and securing appropriate housing accommodations. The Housing Department maintains a database of housing accommodations to fit every need and budget.

For more details on student housing, visit <https://www.umhs-sk.org/index.php/accepted-students/housing>.

TRANSPORTATION

Students can opt to purchase or rent a vehicle while they are in St. Kitts. The university has also contracted with local bus companies to provide transportation to students that live a distance from campus. In addition, students can always choose to utilize the local taxi and bus service on the island to get to locations not related to the university.

FACULTY AVAILABILITY

The faculty are on campus every day and maintain open office hours to support students. Each student is assigned a faculty advisor to assist them throughout the course of the semester. Students encountering academic difficulties are required to meet with their respective faculty advisor, as well as the Dean of Basic Science, to develop an action plan to address any deficiencies. UMHS faculty and administrators are dedicated to student success and are relentless in their mission to provide students with the tools, resources, and education to succeed.

CAMPUS ACCESS

Campus facilities, including classrooms, breakout rooms, the library, and the Learning Resource Center are all open weekdays from 7 AM to 11 PM, and have reduced hours on the weekends. In the evening hours, most of the campus is open for student access. The student lounge is open 24 hours a day. It contains student refrigerators, microwaves, vending machines, student lockers, and comfortable seating.

STUDENT ORIENTATION

Students coming to UMHS for the first time are required to attend New Student Orientation. This occurs several days prior to class registration. New Student Orientation gives students an opportunity to meet fellow classmates as well as learn about the campus, the various student services offered, and the diverse island life of St. Kitts.

WHITE COAT CEREMONY

First-semester students are welcomed into their medical education at the White Coat Ceremony. The ceremony includes a formal cloaking of students in their white coats to signify their journey toward a medical career. Students should have a short white lab coat to put on during the ceremony.

ORGANIZATIONS AND CLUBS

The University of Medicine and Health Sciences supports a variety of campus organizations and clubs including a Student Government Association (SGA) and a chapter of the American Medical Student Association (AMSA). Student Government is made up of elected representatives from each of the classes in St. Kitts. They are the voice of the student body and actively liaison with senior administrators and faculty throughout the semester. They are also involved in coordinating several student functions, including the Welcome Back Party and the senior banquet. For additional details on organizations and clubs, see page 55.

STUDENT BODY

The student body at the University of Medicine and Health Sciences is extremely diverse—from ages, ethnic and socioeconomic backgrounds, genders, and religious beliefs. Students are primarily from the United States, Canada, and Puerto Rico. Everyone, however, shares at least one thing in common—the desire to become a licensed and practicing physician. By dedicating themselves to this purpose, students find themselves in a supportive, rewarding, and enriching peer group of likeminded people.

On weekdays, UMHS students are in class for most of the day, and then will typically study until 10-11 pm. However, on weekends, our students do spend time enjoying the natural beauty of St. Kitts, the vibrant island night life, and the unique opportunity to live and study in another culture.

USEFUL INFO FOR LIVING IN ST. KITTS

CAMPUS LIFE

The University of Medicine and Health Sciences' campus has a vibrant atmosphere, evoking a collegial environment. The students, faculty, and staff are all dedicated to medical education. Faculty maintain open office hours throughout the day to support students. Campus facilities, such as the library and Learning Resource Center, are open 7 days a week. Most of the campus is open from 7 AM to 11 PM, Monday through Friday, with reduced hours on the weekends. Transportation is provided throughout the daytime and evening hours to shuttle students that live outside of the campus area.

LOCAL AMENITIES

St. Kitts offers many of the same amenities and luxuries that can be had within the U.S. There are supermarkets, high-end restaurants, nightclubs, laundromats, banks, and even a movie theater. Public transportation is widespread, with buses and taxis operating throughout the island.

WEATHER

Although hot and tropical, St. Kitts weather is tempered by Caribbean trade winds throughout the majority of the year. Temperatures usually range between 78 and 88 degrees Fahrenheit throughout the year. January to April is the driest period of the year. Rainfall increases during the summer and near the end of the year. The average annual rainfall is about 50–80 inches per year. Hurricane season runs from August through October.

ST. KITTS COMMUNITY

St. Kitts and her sister island, Nevis, compose the Federation of St. Christopher and Nevis. St. Kitts has become the commonly used name for St. Christopher, and the people of St. Kitts are called Kittitians. English is the primary language, although Kittitians often speak a dialect called Patois.

GOVERNMENT

The Federation of St. Christopher and Nevis is a member of the British Commonwealth of Nations. The British monarch is recognized as the head of state. The country became autonomous in 1967 and is led by a prime minister. The capital of St. Kitts is Basseterre.

ECONOMY

The economy of St. Kitts traditionally was focused on sugarcane production. In recent years, tourism, export-oriented manufacturing, and offshore banking have become the primary businesses.

AMENITIES

St. Kitts offers many Western-style amenities, including resort hotels, excellent restaurants, a movie theater, taxi services, supermarkets, high-end stores for shopping, and houses of worship for a variety of religious beliefs.

TIME

The time observed is Atlantic Standard Time, which is one hour ahead of Eastern Standard Time. Daylight Saving Time is not observed.

CURRENCY AND BANKING

The official currency in St. Kitts is the Eastern Caribbean Dollar (EC). The conversion rate is approximately \$2.70 E.C. for \$1.00 U.S. Bank branches are easily found in Basseterre, the capital of St. Kitts. Each bank provides 24-hour ATM services, and cash distributed by ATMs is in EC dollars. The UMHS on-campus ATM is affiliated with the Royal Bank of Canada.

ELECTRICITY

The electricity in St. Kitts is 220 volts/60 cycles. American electricity is 110 volts/60 cycles. While many apartments use 110 volts, students may need converters for use with American appliances in off-campus apartments. Students should contact the UMHS Housing Department prior to arriving in St. Kitts to verify the voltage of their apartment. Electricity on the UMHS campus is 110 volts/60 cycles.

SUPERMARKETS

St. Kitts has supermarkets that are similar to smaller markets in the U.S. or Canada. There is a farmer's market open most Saturdays in Basseterre. There is also a fish market in Basseterre that sells the daily fresh catches.

COMMUNICATIONS

When students arrive for orientation prior to first semester, the Welcoming Committee will explain telephone options. Cable and Wireless St. Kitts & Nevis, Ltd. provides the only phone cards that work in St. Kitts. Each student is given an island phone with a local phone card during orientation.

ORGANIZATIONS AND CLUBS

UMHS has a vibrant body of student-run clubs and organizations that reflect the diversity of our student population.

STUDENT GOVERNMENT ASSOCIATION (SGA)

The Student Government Association is a student-elected organization that acts as the liaison between the school administration and the student body. The electoral board consists of 10 class representatives and five executive board members. Each semester, the SGA organizes celebratory student events, such as the Welcome Back Party, mid-semester Sunfest Beach Party, and the Student Clinician Ceremony.

AMERICAN MEDICAL STUDENT ASSOCIATION (AMSA)

The American Medical Student Association (AMSA) is the oldest and largest independent student-governed organization for physicians-in-training in the U.S. AMSA is comprised of medical and premedical students, interns, residents, and practicing physicians from across the world. AMSA is committed to representing the concerns of physicians-in-training and improving the lives of medical students. AMSA's aspirations are: quality, affordable health care for all, global health equity, enriching medicine through diversity, professional integrity, development, and student well-being. AMSA is a place where you, as a student, can have a voice for the things that matter

For calls to family and friends back home, some students use a Voice Over Internet Protocol (VOIP) service such as Vonage. In addition, there are computer-to-computer internet telephone services such as Skype, which allow you to place calls at no cost to other Skype users.

LOCAL TRAVEL

In St. Kitts, everyone drives on the left side of the road. Road conditions in St. Kitts are significantly different than those in the U.S. or Canada. While roads are well paved, they may be narrow and poorly marked. Drivers often stop on the road to visit with other drivers, blocking at least one lane of traffic. When a driver honks a car horn, it is a common form of greeting, not a warning.

Public transportation consists of buses and taxis. Because of the road conditions, the use of a motorcycle or scooter is not recommended.

ADDITIONAL RESOURCES

We urge students to visit the following websites to get a better perspective on why St. Kitts is an amazing place to live:

<https://www.stkittstourism.kn/>

https://en.wikipedia.org/wiki/Saint_Kitts_and_Nevis

to you and your future patients. You can be an advocate for the change you believe in. It helps you remember why it was you wanted to be a physician. On campus, the UMHS AMSA chapter strives to accomplish AMSA's goals through different programs including running simulation labs and organizing student-led health fairs for the community.

For more information, please visit amsa.org or facebook.com/UMHSAMSA.

AMERICAN MEDICAL WOMEN'S ASSOCIATION (AMWA)

The American Medical Women's Association (AMWA) is comprised of physicians, residents, medical students, and health care professionals. They are dedicated to advancing women in medicine and improving women's health. AMWA empowers women by developing leadership, advocacy, education, expertise, mentoring, and strategic alliances at the local, national, and international levels. On campus, UMHS' AMWA chapter aims to achieve these goals with a variety of programs such as bringing in guest speakers and organizing panel events, self-defense classes, simulation labs, interactive clinical case studies, fundraisers for local charities, and events that promote awareness of various women's health issues.

For more information please visit facebook.com/amwaatumhs or amwa.org

MIDDLE EASTERN MEDICAL STUDENT ASSOCIATION (MEMSA)

The Middle Eastern Medical Student Association (MEMSA) at UMHS is a student organization providing insight into Middle Eastern culture, while also organizing philanthropic events to give back to the local St. Kitts community. Along with philanthropy, the group plans to hold events promoting Middle Eastern culture through the serving of popular Middle Eastern dishes and exploring cultural hobbies.

AFRICAN STUDENT ASSOCIATION (ASA)

The ASA is a cultural group that is not exclusive to African students. ASA encourages participation by members of other races and ethnic backgrounds, for the purpose of uniting and promoting awareness of African cultures and health issues in the African community and the world around us.

UMHS SPORTS CLUB

The UMHS Sports Club creates an easy channel for UMHS students to partake in organized sports such as soccer, volleyball, softball, flag football, basketball, and ultimate frisbee, as well as more obscure sports, such as scuba diving. Weekends usually consist of volleyball leagues and softball games, which are friendly and open to all skill levels.

RELIGIOUS AND CULTURAL ORGANIZATIONS

Religious and cultural organizations are welcomed at UMHS. Their purpose is to support the diverse spiritual needs of the student body and to promote experiences for cultural growth.

SPORTS AND RECREATION

An exotic paradise, St. Kitts is distinguished by breathtaking natural beauty. Boasting crystalline waters, soft sandy beaches, untouched ecosystems, tropical rainforests, and a spectacular dormant volcano, St. Kitts offers something for everyone.

SPORTS

The welcoming climate provides for a wide range of outdoor fun, including many water-based activities such as snorkeling, scuba diving, and sailing. Students are encouraged to take advantage of the various activities on the island, including golf, basketball, tennis, jogging, soccer, volleyball, flag football, and other outdoor sports. The University actively endorses intercollegiate sporting events between the other universities in St. Kitts.

HIKING, CLIMBING, AND ZIP-LINING

St. Kitts is also a perfect setting for outdoor adventure activities such as hiking. The trails are beautiful and range in difficulty from easy to extreme. The rainfall hikes are exceptional, allowing hikers to experience a wide assortment of flora and fauna. Other hikes include trails to a variety of waterfalls, caves, and even a volcanic crater.

Zip-lining is another popular activity on St. Kitts, especially for those with a penchant for adventure. You can ride a series of zip-lines that traverse hundreds of feet above various canyons and tropical rainforests, experiencing all of the beauty of St. Kitts' exotic scenery. It's a must-do activity for all visitors to the island. See more here: <http://skysafaristkitts.com>.

BRIMSTONE HILL

If you are a history buff, Brimstone Hill is definitely worth visiting. Dating back to the seventeenth century, when the French first placed a cannon on the strategically advantageous location, the fort has changed hands several times between British and French forces over the years. At 972 feet high, Brimstone Hill is also a great spot to bring your camera and enjoy the sweeping Caribbean views!

BOTANICAL GARDENS

The Botanical Gardens are also a must-visit, hosting an incredible variety of tropical plants, including various palm species and exotic trees from Africa. Don't forget to stop at the batik store while you're there, and enjoy a live demonstration on the batik process. A beautiful and exotic clothing style, batik uses wax to create unique clothing patterns that will be a great addition to your Caribbean wardrobe.

UMHS ON CAMPUS GYM

The University recently developed a gym that is equipped with a full range of cardio and weight-training gear including treadmills, ellipticals, bikes, Cybex machines, free weights, and more. The facility is open throughout the day and evening, and is maintained by a staff of professionals who are available to assist students. A variety of exercise classes are held throughout the day. Recently, the University constructed a new basketball court, and it plans to develop a soccer field in the near future.

RECREATION

The island of St. Kitts offers a diversity of culture and a treasure-trove of historic sites to explore. Sightseeing might include small towns that highlight colonial architecture, stately plantation homes, as well as quaint local shops. Special annual events feature a colorful carnival and a music festival. Special events are often held at the 10,000 seat stadium built for the 2007 World Cup Cricket Games.

LICENSURE AND ACCREDITATION

LICENSURE

To graduate from the University of Medicine and Health Sciences (UMHS) with a Doctor of Medicine (M.D.) degree, UMHS students must successfully pass both Step 1 and Step 2 of the United States Licensing Examinations (USMLE). To practice medicine in the United States, UMHS graduates must successfully pass all three steps of the United States Licensing Examinations (USMLE) and be certified by the Educational Commission for Foreign Medical Graduates (ECFMG).

UMHS also offers a comprehensive USMLE review program starting in the first semester with a live fifth semester review, which further prepares students to pass Step 1 of the USMLE on their first attempt.

Each state regulates medical licensure in the United States. Because these standards vary by state, we urge students to contact their state medical board for further information about licensure.

UNITED STATES LICENSING EXAMINATIONS (USMLE)

Three tests comprise the USMLE, and they assess a physician's ability to apply knowledge, concepts, and principles, as well as to demonstrate fundamental patient-centered skills that constitute the basis of safe and effective patient care.

USMLE STEP 1

Assesses whether medical school students understand and can apply important concepts of the basic sciences to the practice of medicine. Students sit for this examination immediately after they have completed the fifth semester in Portland, Maine.

STEP 2 CK AND CS

Assesses whether medical school students can apply medical knowledge, skills, and understanding of clinical science essential for the provision of patient care under supervision. Students typically sit for these examinations after they have completed the core rotations.

USMLE STEP 3

Assesses whether medical school graduates can apply medical knowledge, skills, and understanding of biomedical and clinical science essential for the unsupervised practice of medicine. Students sit for this examination after graduating from UMHS.

EDUCATION COMMISSION FOR FOREIGN MEDICAL GRADUATES (ECFMG) CERTIFICATION

Students graduating from international and Caribbean medical schools must be certified by the Education Commission for Foreign Medical Graduates (ECFMG) in order to gain residency and licensure in the U.S. All UMHS students receive ECFMG certification by successfully graduating from our M.D. program and passing USMLE Steps 1 and 2. There is no additional certification exam on the students' part prior to graduation.

RESIDENCY POSITIONS

Residency programs begin annually on July 1. In order to be eligible, students must have the following prior to May 31

1. Passing scores on the USMLE Step 1 and USMLE Step 2 CK and CS
2. Diploma from UMHS
3. ECFMG certificate

When applying for residency positions, deadlines are critical. Most residency programs accept applications from September to December for entry the following July. Students apply through the Electronic Residency Application Service (ERAS), beginning in the summer prior to the match. Interviews are generally conducted from September to January.

The best way to become familiar with residency programs and their respective locations is to obtain a copy of the American Medical Association (AMA) Graduate Medical Education Directory, also known as the "green book," a resource available online. The guide lists programs accredited by the Accreditation Council for Graduate Medical Education (ACGME).

GRADUATE RESIDENCY TRAINING

Fourth-year UMHS students pursue post graduate residency positions in prestigious hospitals throughout the United States and Canada. After graduating, students begin their internship year alongside their United States counterparts as practicing Doctors of Medicine (M.D.) in numerous specialties and in diverse residency training programs.

ACCREDITATION

UMHS students are eligible to sit for the United States Medical Licensing Examinations as a result of the IMED and WHO AVICENNA listings.

ACCREDITATIONS AND APPROVALS

In addition to having been granted five-year accreditations in 2012 and 2017 from the Accreditation Board of St. Kitts and Nevis, the University of Medicine and Health Sciences (UMHS) also has a full six-year accreditation from the Accreditation Commission on Colleges of Medicine (ACCM), an internationally recognized accrediting body that follows the Liaison Committee of Medical Education's (LCME) Standards for Accreditation. The LCME is empowered by the U.S. Department of Education as the accreditor of U.S. and Canadian medical schools.

ACCM is approved by the National Committee on Foreign Medical Education and Accreditation (NCFMEA). The NCFMEA is empowered by the U.S. Department of Education to review written and applied accreditation standards for medical schools outside of North America. ACCM is approved by NCFMEA and is recognized as having standards comparable to those utilized in the U.S.

RESOURCES

USMLE SECRETARIAT

3750 Market Street
Philadelphia, PA 19104-3190
Telephone: 215-590-9700
FAX: 215-590-9457
<http://www.usmle.org/>

AMERICAN MEDICAL ASSOCIATION

515 N. State Street
Chicago, IL 60610
312-464-5000
<http://www.ama-assn.org/ama>

ECFMG

3624 Market Street
Philadelphia, PA 19104-2685 USA
<http://www.ecfm.org/index.html>

NATIONAL RESIDENT MATCH PROGRAM

2540 N Street, N.W., Suite 1
Washington, D.C. 20037-1037
202-828-0566
<http://www.nrmp.org/>

If a student has submitted a complaint to UMHS through the Student Portal Complaint Box, which indicates that UMHS has been non-compliant with ACCM accreditation standards and does not feel that UMHS fairly resolved the problem, he/she may contact ACCM at office@accredmed.org or on their website (<http://www.accredmed.org/complaints-policy/>).

Complaints must be submitted in writing, giving as much detail as possible of the matter in question. ACCM will not intervene in internal matters such as admissions, appointments, promotions, or dismissals. Anonymous complaints will not be considered.

The identity of a complainant is kept confidential insofar as possible, although there may be circumstances in which confidentiality cannot be maintained. In this case, the complainant will be asked to sign an authorization to release any relevant documentation or information as required. For more details on ACCM's procedure for handling complaints about educational program quality, please write to the ACCM Secretariat.

ACCM SECRETARIAT

131 Belmont, Southern Cross Road, Bray, Co. Wicklow, Ireland

Phone: +353-87-238 8502

Email: office@accredmed.org

Website: www.accredmed.org

UMHS understands the importance of having its programs accredited so that our students may be eligible to sit for the United States Medical Licensing Examinations (USMLE) and apply for certification from the Educational Commission for Foreign Medical Graduates (ECFMG). This certification is required for international and Caribbean medical school graduates to obtain residencies and licensing to practice medicine in the United States.

ST. KITTS ACCREDITATION

An important first step for ECFMG is to be accredited in the country in which the school is located. UMHS was granted full five-year accreditations by the St. Christopher and Nevis Accreditation Board, an arm of the Ministry of Education, in both 2012 and 2017.

INTERNATIONAL MEDICAL EDUCATION DIRECTORY (IMED)

The next step is for the school to be listed in the World Directory of the World Federation of Medical Education, as well as the International Medical Education Directory (IMED) of the Foundation for the Advancement of International Medical Education and Research (FAIMER). UMHS received this listing in June 2008. As a result of the IMED listing and our accreditation, students at UMHS are eligible to sit for the United States Medical Licensing Examinations. Graduates who have successfully passed Step 1 and Step 2 CK and CS of the USMLE may be eligible for ECFMG certification. USMLE Step 3 is taken after graduations.

USMLE STEP 1 AND STEP 2 CK AND CS

Graduates who have successfully completed the UMHS program and have passed Step 1 and Step 2 CK and CS of the USMLE are eligible to apply for Educational Commission for Foreign Medical Graduates (ECFMG) certification, which is required to obtain a residency in the United States. We highly recommend that students visit efcmg.org for further information about certification.

USMLE STEP 3

Step 3 of the USMLE is taken after graduation. To be eligible for licensure, graduates must have successfully passed all three steps of the USMLE and satisfied the specific state requirements. Since licensure requirements vary by state, we urge all students to contact their licensure board, or boards, for further details.

CARIBBEAN MEDICAL SCHOOL ACCREDITATION

In August 2007, the WHO and the University of Copenhagen signed an agreement, which gives the University responsibility for the development and administration of new global directories for the academic health professions with the assistance of the World Federation for Medical Education (WFME), which has a long-standing collaboration with WHO. WHO will continue its involvement together with other partners. The University of Copenhagen has provided the data of the World Directory of Medical Schools since August 2008, via a website called the Avicenna Directories. The University of Medicine and Health Sciences listing can be found under the country of St. Kitts/Nevis.

STATE APPROVALS

In addition to accreditation, there are a small number of U.S. states that have provisions for approving foreign medical schools. Gaining state approvals enhances the reputation of the university, provides further opportunities to expand the clinical program, and substantially increases residency opportunities, which positively impacts both our students and graduates.

In 2014, UMHS received provisional approval from the State Board of Georgia. In January 2015, the Board granted full approval to UMHS. UMHS is the first foreign medical school to be approved by the State of Georgia under their new standards. This approval allows our University to continue to conduct clinical programs in Georgia. Consequently, our students will be eligible for unlimited clinical rotations, residency selection, and licensure in the state of Georgia.

UMHS has applied to New York for state approval. We are now in queue for a future site visit and hope to be reviewed in 2019.

GEORGIA

In order to qualify for an approval, the University had to provide a significant amount of documentation including both a database of outcome information as well as a self-study. The review was very rigorous and demanding. In 2014, the University received a conditional approval after receiving a positive response from a site visit to the University. A subsequent follow up site visit occurred in January 2015 resulting in a full approval of the University.

As of this date, we are the only foreign medical school to be approved by the state of Georgia under the new standards of the Georgia Composite Board. This approval allows our University to continue to conduct clinical programs in Georgia. Consequently, our students will be eligible for unlimited clinical rotations, residency selection, and licensure in the state of Georgia.

FLORIDA

UMHS is licensed by the Commission for Independent Education, Florida Department of Education. Additional information regarding this institution may be obtained by contacting the Commission for Independent Education, Department of Education, 325 West Gaines Street, Suite 1414, Tallahassee, FL 32399-0400, toll-free telephone number (888) 224-6684.

Statement of Legal Control: University of Medicine and Health Sciences Limited Corporation is registered with the Florida Department of State as a foreign profit corporation doing business as University of Medicine and Health Sciences.

CALIFORNIA UPDATE

As of January 1, 2020, The Medical Board of California shall determine a foreign medical school to be a recognized medical school if the foreign medical school meets any of the following requirements:

1. The foreign medical school has been evaluated by the Educational Commission for Foreign Medical Graduates (ECFMG) or one of the ECFMG-authorized foreign medical school accreditation agencies and deemed to meet the minimum requirements substantially equivalent to the requirements of medical schools accredited by the Liaison Committee on Medical Education, the Committee on Accreditation of Canadian Medical Schools, or the Commission on Osteopathic College Accreditation.
2. The foreign medical school is listed on the World Federation for Medical Education (WFME) and the Foundation for Advancement of International Medical Education and Research (FAIMER) World Directory of Medical Schools joint directory or the World Directory of Medical Schools.

We believe that UMHS will satisfy these requirements and should qualify for recognition in January 2020. We are fully accredited by ACCM which is an ECFMG authorized foreign medical school accreditation agency. ACCM is also recognized by the U.S. Department of Education through NCFMEA. UMHS is also listed with WFME and the World Directory. As a result, we believe we should be in full compliance with both items 1 and 2.

Once approved and recognized, all current and future UMHS students will qualify for clinical rotations, residencies and licensure in California. Our goal will be to make California a regional clinical center with multiple affiliations offering a full complement of core and elective rotations. At the present time, UMHS graduates must complete 10 years of practice outside of California to qualify for licensure. That regulation will be repealed in 2020. As a result, our understanding is that there will no longer be a waiting period imposed for licensure.

ADDITIONAL INFORMATION

EDUCATIONAL COMMISSION FOR FOREIGN MEDICAL GRADUATES (ECFMG®)

The Educational Commission for Foreign Medical Graduates (ECFMG) assesses the readiness of international medical graduates to enter residency or fellowship programs in the United States that are accredited by the Accreditation Council for Graduate Medical Education (ACGME).

To become ECFMG certified, UMHS students and graduates, like all international medical school students and graduates, must register with ECFMG to take the USMLE Steps 1, 2, and 3. Graduates must also must provide their international medical school transcripts. ECFMG verifies that the international medical school is listed with IMED.

FOUNDATION FOR THE ADVANCEMENT OF INTERNATIONAL MEDICAL EDUCATION AND RESEARCH (FAIMER)

Foundation for the Advancement of International Medical Education and Research (FAIMER) is a non-profit foundation committed to improving world health through education. FAIMER was established in 2000 by the Educational Commission for Foreign Medical Graduates (ECFMG®). In partnership with ECFMG, FAIMER promotes excellence in international health professions education through programmatic and research activities.

INTERNATIONAL MEDICAL EDUCATION DIRECTORY (IMED)

The International Medical Education Directory (IMED) The International Medical Education Directory (IMED) is a free web-based resource for accurate and up-to-date information about international medical schools that are recognized by the appropriate government agency in the countries in which they are located. The agency responsible for this recognition in most countries is the Ministry of Health. FAIMER is not an accrediting agency. Listing of a medical school in IMED does not denote recognition, accreditation, or endorsement by FAIMER.

A medical school is listed in IMED after FAIMER receives confirmation from the Ministry of Health or other appropriate agency that the Ministry or agency has recognized that school.

ECFMG CERTIFICATION

Students graduating from UMHS and all other international and Caribbean medical schools must be certified by the Education Commission for Foreign Medical Graduates (ECFMG) to sit for the USMLE. This certification is required for residency and licensure in the United States.

ECFMG OVERVIEW

The Educational Commission for Foreign Medical Graduates (ECFMG) assesses the readiness of international medical graduates to enter residency or fellowship programs in the United States that are accredited by the Accreditation Council for Graduate Medical Education (ACGME). To become ECFMG certified, UMHS students and graduates, like all international medical school students and graduates, must register with ECFMG to take the USMLE Steps 1, 2, and 3. Graduates must also provide their international medical school transcripts. ECFMG verifies that the international medical school is listed with IMED.

INTERNATIONAL MEDICAL EDUCATION DIRECTORY (IMED)

The International Medical Education Directory (IMED) is a free web-based resource for accurate and up-to-date information about international medical schools that are recognized by the appropriate government agency in the countries in which they are located. The agency responsible for this recognition in most countries is the Ministry of Health.

FAIMER is not an accrediting agency. Listing of a medical school in IMED does not denote recognition, accreditation, or endorsement by FAIMER. A medical school is listed in IMED after FAIMER receives confirmation from the Ministry of Health or other appropriate agency that the Ministry or agency has recognized that school.

UNITED STATES MEDICAL LICENSING EXAMINATION (USMLE)

UMHS Medical students are required to pass the USMLE exams in order to become licensed in the United States. These exams assess a physician's ability to apply knowledge, concepts, and principles, and to demonstrate fundamental patient-centered skills, that are important in health and disease and that constitute the basis of safe and effective patient care.

THREE-STEP PROCESS

Each of the three steps of the USMLE complements the others. No single step score can stand alone in the assessment of readiness for medical licensure with regards to safe and effective patient care.

USMLE EXAMS

Three tests comprise the USMLE. The exams are administered throughout the medical education process and include Step 1, Step 2 (CK and CS), and Step 3. Please refer to <http://www.usmle.org> for more information.

USMLE STEP 1:

The USMLE Step 1 is taken prior to semester six at UMHS. This examination assesses whether medical school students understand and can apply important concepts of the sciences basic to the practice of medicine.

USMLE STEP 2 CK AND CS:

The USMLE Step 2 CK and CS are taken prior to graduation from UMHS. These tests assess whether medical school students can apply medical knowledge, skills, and understanding of clinical science essential for provision of patient care under supervision.

USMLE STEP 3:

The USMLE Step 3 is taken prior to the completion of residency training. This examination assesses whether medical school graduates can apply medical knowledge, skills, and understanding of biomedical and clinical science essential for the unsupervised practice of medicine.

UMHS SUCCESS

UMHS students have performed exceptionally well on theses examinations for the following reasons:

1. Development of comprehensive Basic and Clinical Science Programs modeled after the U.S. programs.
2. UMHS has incorporated into the curriculum the use of shelf examinations developed by the National Board of Examiners. These exams, which are developed for all the core clinical clerkships and basic science courses, are made up of exam questions that mimic the USMLE. Virtually every U.S. medical school utilizes these examinations.
3. UMHS is one of the only foreign medical school to offer a comprehensive review program for Step 1 and Step 2 through Kaplan Medical. For Step 1, we offer a seven-week live lecture series at our campus in Portland, Maine. For Step 2 CK, all of our students have access to the seven-month Kaplan video series, diagnostic examinations, and a comprehensive question bank.

USMLE REVIEW WITH KAPLAN MEDICAL

We understand how important it is for students to perform well on both Step 1 and 2 of the USMLE and want to provide all the resources necessary to ensure your success. To be competitive in the match, students must pass both steps on the first attempt and obtain the highest score possible. Kaplan has played a key role in preparing our students for Step 1 with a seven-week comprehensive review program in Maine.

In 2016, UMHS partnered with Kaplan Medical to also provide a comprehensive review program for Step 2 CK and CS. All students are automatically enrolled in this program once they successfully pass Step 1. This gives our students the competitive edge they need to ensure a high first time pass rate and exceptional scores.

PROGRAM DESCRIPTIONS:

Step 2 CK On-Demand: Prep around your busy clinical schedule with Kaplan's convenient online prep program, which provides on-demand internet access to over 115 hours of online video lectures delivered by Kaplan's expert faculty. This online course includes 24/7 access to our full Step 2 CK video library with a menu that allows you to create a personalized study plan to customize your prep. It includes Kaplan's new Lecture Notes and Assessment Tests, as well as Ebook lecture notes.

Step 2 CK Qbank: Featuring over 2,000 exam-like practice questions, this program includes one diagnostic test, and two full-length simulated exams, all written by master faculty and reviewed by high-scorers. Detailed explanations and ReKap summaries are included, plus expert support from our academic team via email.

Step 2 CS Live Online: Prepare for Step 2 CS from anywhere Internet access is available. This program features five three-hour sessions. Receive step-by-step guidance on all test components and review video of full-length patient encounters. You'll get live, interactive instruction from our expert faculty as they guide you through over 15 hours of lecture and video. Get step-by-step review of all tested components including tips for exam room etiquette, patient notes, and strategies for passing the exam. You'll also review video of full-length encounters with certified standardized patients. Submit answers to questions and receive live feedback from our instructors, ask all of your questions via live chat, and compare your performance with that of other students.

KAPLAN INTEGRATED PLAN (MAY 2018 UPDATE)

We now offer all UMHS Basic Science students access to the new Kaplan Integrated Plan. We are one of the first offshore medical schools to offer this package to students in the Basic Sciences, allowing students to get a jump-start on preparing for USMLE Step 1. UMHS students no longer have to wait until the fifth semester in Maine to access these valuable resources. The information will also be useful as an additional resource with content and videos which correspond to each of the Basic Science courses taken in St. Kitts.

The Integrated plan contains the following:

- Over 2,100 newly updated USMLE-type questions
- Full explanations and "reKap" summaries for all questions
- Streamlined user experience with progress reports
- Simple test creation and test-like interface
- Customized study plan structured around your performance
- 26 mastery assessments
- 40–70 hours of online interactive videos
- 1 diagnostic exam
- 2 full-length simulated exams
- Mobile-friendly and available in the Kaplan App

ADMISSIONS

ADMISSIONS PROCESS

ADMISSIONS REQUIREMENTS

Prospective applicants to UMHS must meet the minimum requirements for admission outlined below. Applicants are expected to have completed a minimum of three years of study (90 semester credits) at an accredited college or university. However, it is highly recommended that applicants earn a bachelor's degree prior to matriculating at UMHS. Applicants must have successfully completed the following undergraduate prerequisite courses:

PREREQUISITES	DURATION
Inorganic or General Chemistry (with Labs)	One Year
Organic Chemistry (with Labs)*	One Year
General Biology or Zoology (with Labs)	One Year
Physics (with Lab)	One Semester
English	One Year
College-Level Mathematics (Preferably Calculus or Statistics)	One Semester

*Applicants may substitute one semester of Biochemistry for Organic Chemistry II if this is the prescribed pre-medical chemistry sequence at their college or university. It is recommended that additional advanced science courses such as Genetics, Anatomy, Physiology, and Biochemistry be taken, as well. High school advanced placement courses are considered on a per-case basis and may meet prerequisite requirements.

APPLICATION CHECKLIST

Begin the process by completing our online application for admission. All required supporting credentials and documentation must be received by the UMHS Office of Admissions in order to initiate an application review.

A completed file consists of:

1. Completed online application
2. \$75 nonrefundable application fee (waived for AMCAS applicants)
3. Signed application certification form
4. Official transcripts from all institutions attended
5. MCAT score results (if applicable)
6. Pre-Health Advisory Committee Letter or two individual letters of recommendation
7. Any other supporting credentials specifically requested by the Office of Admissions

Students must complete the application online and then order all letters of recommendation and official transcripts to be sent to the UMHS North American Administrative Office:

University of Medicine and Health Sciences (UMHS)

North American Administrative Office

460 West 34th Street, 4th Floor

New York, NY 10001

REQUIRED DOCUMENTS AND FEES

APPLICATION FEE

Applicants must submit a \$75.00 application fee (waived for students choosing to submit their AMCAS). The fee may be paid online or by sending a check or money order to the UMHS North American Administrative Office. This fee is non-refundable.

APPLICATION CERTIFICATION FORM

Upon submission of the online application for admission, confirmation of receipt will be provided to the applicant via email. Included will be further instructions for completing the application file in addition to a certification form, which must be signed by the applicant and returned to the Office of Admissions.

OPEN-ENDED QUESTIONS AND PERSONAL STATEMENT

Included in the online application are several short-answer questions and a space to write a personal statement. These are an important component of the overall application and will be evaluated closely by our admissions committee when weighing a students' potential for candidacy.

OFFICIAL TRANSCRIPTS

Applicants should request official transcripts from all previously attended colleges and universities. Unofficial transcripts provided by the applicant will be accepted only for the purposes of an initial evaluation. In cases where the college/university attended is outside of North America, an official evaluation performed by a NACES-approved evaluation agency must be submitted, as well.

MCAT SCORES

The Medical College Admission Test (MCAT) is required for all U.S. citizens, permanent residents, and those who completed their undergraduate education in the U.S. Applicants must submit results of all MCAT attempts with their application. While not required for non-U.S. citizens, the MCAT is strongly recommended for all applicants, specifically those who are Canadian citizens or residents. The best way to submit your MCAT score is to upload a screenshot of your scores in the document upload section of the online application. You may also print your scores and mail them to our New York office, or email them admissions@umhs-sk.net. Questions about the MCAT, including applications, test dates, and testing locations should be directed to:

MEDICAL COLLEGE ADMISSIONS TEST REGISTRATION

The American College Testing Program
P.O. Box 414
Iowa City, IA 52243
Phone: 319-337-1276

LETTERS OF RECOMMENDATION

It is preferred that applicants who have completed their pre-medical coursework at a college or university where there is a Pre-Professional Advisory Committee submit a letter of recommendation from that committee. Applicants who have attended a school at which there is no Pre-Professional Advisory Committee must have at least two letters of recommendation from faculty members at their university. One of these letters should be from a faculty member in the department of the applicant's major and the other should be from a science faculty member. Applicants are encouraged to submit one or two additional letters of recommendation from individuals with whom they have worked closely. These can be from faculty, employers, research mentors, or volunteer directors. Letters of recommendation in support of a UMHS applicant should be printed on appropriate letterhead, signed, and sent by mail to the UMHS North American Administrative Office. Letters of recommendation may be submitted via email by the recommender if they are in PDF format on appropriate letterhead with a signature.

APPLICATION FILE REVIEW

PRELIMINARY EVALUATION

After you have completed the online application and all of your supporting documents have been received, the Faculty Admissions Committee will conduct a preliminary evaluation of your credentials. If it is determined that you meet our minimum qualifications, you will be invited to schedule a personal interview.

PERSONAL INTERVIEW

Qualified applicants will be contacted by an admissions counselor to arrange for their personal interview. Applicants will be given an opportunity to discuss their academic record and provide any other background information that will help the admissions committee to assess the student's maturity, aptitude, and motivation.

APPLICATION DECISION

Applicants can anticipate admissions decisions to be made within two to three weeks after the personal interview is conducted. Applicants will be notified by email of the official admissions decision reached by UMHS Faculty Admissions Committee. The decision-making timeline may be extended during semester breaks and holiday periods.

There are five decision options:

1. Acceptance: The applicant has been accepted to attend UMHS in the requested entry term.
2. Acceptance/Wait-List: The applicant has been accepted to attend UMHS; however, if their intended semester of matriculation is full, the applicant is placed on a wait-list and confirmed for the next available semester. If a vacancy occurs, the applicant may still attend their original intended semester.
3. Acceptance to the Extended Basic Science Program (EBS): The Extended Basic Science Program is designed for entering students who wished to spread the work of the first four semesters of medical school over a five-semester period instead. The EBS program is described in detail on page 13.
4. The Accelerated Review Program (ARP): This program is designed for students who have the potential to become successful physicians but need additional academic foundation work and study skills preparation to ensure their success in the rigorous UMHS medical education program. Additional details are provided here: <https://www.umhs-sk.org/index.php/academics/accelerated-review-program>.
5. Denial: The applicant has not met the minimum entrance qualifications as determined by the UMHS Faculty Admissions Committee. An applicant may appeal this decision in writing, and must supply additional supporting documentation for review by the Admissions Committee.

ACCEPTED STUDENTS

Upon acceptance to UMHS, students will begin to work with a designated staff member for assistance and instruction on all aspects of the enrollment process. A highly detailed Welcome Packet, which contains all instructions and forms to complete the enrollment process, is provided at the time of acceptance. Learn more about the enrollment process at: <https://www.umhs-sk.org/index.php/accepted-students>.

The University of Medicine and Health Sciences admits students without regard to race, color, national origin, gender, religion, disability, or age to all rights, privileges, programs, and activities generally made available to students at the University. It does not discriminate on the basis of race, color, national origin, gender, religion, disability, or age in the administration of its educational programs and other University administered policies.

TRANSFER POLICY/ADVANCED STANDING

UMHS considers potential transfer applicants who have completed prior medical school coursework (in a similarly structured M.D. program) on a per-case basis. The latest entry point for transfer students is the fifth semester, which is located at our campus in Portland, Maine. The fifth semester consists of two courses: Introduction to Clinical Medicine II and Biological Basis of Medicine, which includes an intense seven-week USMLE review and preparation through our partnership with Kaplan Medical. Students who have successfully completed USMLE Step 1 and wish to transfer must pass a shortened, modified fifth semester which still includes the Introduction of Clinical Medicine II course. Please note that UMHS does not accept transfers directly into the third or fourth year Clinical Science Program.

To be considered for admission with advanced standing, transfer applicants must complete the UMHS application for admission (available at: <https://www.umhs-sk.org/index.php/contact-us/apply-online>) and meet all UMHS prerequisite requirements, including successful completion of all prescribed undergraduate courses. In addition to transcripts from their prior medical school(s) and a dean's letter from that medical school, applicants must submit copies of all undergraduate and graduate school transcripts, two letters of recommendation, the application fee, and MCAT results (if applicable). USMLE results must also be submitted for all attempts made.

For more information on transferring to UMHS, please contact the Office of Admissions toll-free at 866-686-0380, direct at 212-868-0855, or via email at admissions@umhs-sk.net.

Students interested in transferring out of UMHS to another school should contact those schools directly to obtain their transfer policies and requirements for advanced standing. Please be advised that transfer policies for both U.S. and Caribbean schools vary greatly depending upon the school and location.

TUITION AND FEES

FEE SCHEDULE

BASIC SCIENCE TUITION: SEMESTERS 1–4

BASIC SCIENCE PROGRAM	PER-SEMESTER FEE
Basic Science Tuition	\$13,200.00
Lab Fees	\$800.00
Student Government Association	\$30.00
Evacuation Insurance	\$105.00
Health Insurance (age-based)	\$278.00–\$669.00
TOTAL	\$14,413.00–\$14,804.00

EXTENDED BASIC SCIENCES TUITION 1–5

EXTENDED BASIC SCIENCE PROGRAM	PER-SEMESTER FEE
Extended Basic Sciences Tuition	\$10,930.00
Lab Fees	\$800.00
Student Government Association Fees	\$30.00
Evacuation Insurance	\$105.00
Health Insurance (age-based)	\$278.00–\$669.00
TOTAL	\$12,143.00–\$12,534.00

CLINICAL SCIENCE TUITION: SEMESTERS 5–10

CLINICAL SCIENCE PROGRAM	PER-SEMESTER FEE
Clinical Science Tuition	\$15,850.00
Liability Insurance	\$344.00
Health Insurance (age-based)	\$375.00–\$903.00
TOTAL	\$16,569.00–\$17,097.00

ACCELERATED REVIEW PROGRAM TUITION

ACCELERATED REVIEW PROGRAM	PER SEMESTER FEE
Accelerated Review Program Tuition	\$8,850.00
Student Government Association Fees	\$30.00
Evacuation Insurance	\$105.00
Health Insurance (age-based)	\$278.00–\$669.00
TOTAL	\$9,263.00–\$9,654.00

EFFECTIVE: SEPT 2018

Tuition and fees are subject to change without notice.

**Any credits above or below the semester total credits will be charged at a rate of \$850.00/credit (EBS and BAS); \$985/credit (CLN #5-10)

Payment Options: (All payments must be in U.S. dollars and drawn from a U.S. bank)

1. Check
2. Money order
3. Credit card (MasterCard and Visa)
4. Wire transfer

ESTIMATED COST OF ATTENDANCE

To learn more about the estimated cost of attendance and how to financially plan for your education at UMHS, please refer to the Financial Aid section of the website.

Learn more about the Estimated Cost of Attendance on page 76.

TUITION REFUND POLICY

Students who officially withdraw from the university will have their refunds, if any, calculated according to the tuition refund schedule that is published in the Student Handbook and website. The percentage of refund is based on the actual date of withdrawal recorded by the Registrar. This may not necessarily result in a refund and in some instances, a tuition balance may still be due. Insurance and fees are non-refundable. Refunds are mailed directly to the student's permanent address by the Bursar's Office.

When withdrawing from the University, a student is required to complete and file the appropriate form before being entitled to any credit or refund of tuition. The completed document must be returned to the Registrar's office. Once the form is processed, it will constitute an official withdrawal from the University. Discontinued attendance or notification to the instructor or any other office will not constitute an official withdrawal.

The effective date of a withdrawal is normally the student's last date of attendance. The University's handling of tuition and charges corresponds with federal loan entitlement regulations, which are based on the period attended:

1. If a student withdraws prior to the start of a semester, no tuition charges are due.
2. If a student withdraws within the first 60 percent of a semester, tuition is prorated based on the number of days attended during that term.
3. If a student withdraws after the first 60 percent of a semester, full tuition/charges remain due.

4. For withdrawals during the first 60 percent of a semester, student loan entitlement is recalculated in accordance with federal loan regulations. If applicable, the University and the student are each proportionally responsible for returning "unearned" loan funds to lenders. In addition to the lender returns required by federal regulations, the University returns any remaining credit balance to lenders, which decreases the student's loan debt for that semester.
5. All self-paying students (non-financial aid) who officially withdraw from the University during the first 60 percent of a semester may receive a tuition refund in accordance with the prorated tuition standard listed above.

Although a leave of absence may be authorized in limited circumstances, failure to return to school from a leave of absence is considered a withdrawal as of the last date of attendance.

Under federal regulations, a leave of absence: must be requested and approved in advance; may not exceed 180 days; and may not be granted within 12 months of a previous leave of absence. An interruption of enrollment status that does not qualify as a leave of absence is considered a withdrawal as of the last date of attendance.

Information about registration, benefits, and coverage are given to students at orientation.

BURSAR DEPARTMENT

460 West 34th Street, 4th Fl.
New York, NY 10001
Phone: 212-868-0855
Fax: 212-868-4725
Email: bursar@umhs-sk.net

TUITION AND FEES

The University understands the significance of student debt load and has purposefully established tuition at a value that makes the academic program affordable, and far below that of many other medical schools. We pride ourselves on providing a quality education at an affordable price.

There are two categories of costs associated with attending an educational institution: direct and indirect.

Direct Costs

Direct costs are those associated specifically with the educational process. Direct charges include tuition, lab fees, course fees, medical and evacuation insurance, and applicable registration fees. These are billed directly from the University to the student.

Indirect Costs

Indirect costs include, but are not limited to housing, living expenses, books, supplies, and transportation. Students are responsible for indirect expenses. UMHS does not bill nor receive money for indirect costs.

Although calculating financial aid eligibility involves the total of all direct and indirect expenses, students will only be billed for the direct costs at UMHS. Students who qualify may choose to apply for available loan programs to assist with their educational and (if applicable) living expenses.

DIRECT COSTS

Health Insurance

Health insurance is required for all students enrolled at UMHS. Enrollment in the medical health insurance plan offered by UMHS is automatic unless proof of health insurance is provided by the student before or during registration. The cost of health insurance purchased through UMHS varies depending upon a student's age. The cost is billed at the beginning of each semester.

Evacuation Insurance

Students are required to have evacuation insurance while living on St. Kitts. In the event of a medical emergency where a student may need to be evacuated to a U.S. hospital, this would cover that cost. Enrollment in the medical evacuation insurance plan offered by UMHS is automatic. It is due at the beginning of each semester.

Liability Insurance

Liability insurance is required for every student during fifth semester at the Portland, Maine, campus and while completing clinical rotations at any UMHS-affiliated teaching hospital. Students will be provided further details regarding liability insurance prior to returning to the U.S. for fifth semester.

Laboratory and Competency Testing Fees

Students are responsible for laboratory and competency testing fees each semester. The laboratory fee will be billed along with tuition for all semesters in St. Kitts.

INDIRECT COSTS

While UMHS only bills for direct costs, students should also take into account indirect costs when planning their financial needs. These include:

Books and Equipment

Students receive a list of the required books, supplies, and uniforms which they will need to purchase for each semester. The most efficient way to obtain these items is through the Campus Bookstore located on our campus in St. Kitts. Students can purchase all their books and supplies during registration. All books offered will be the latest editions available at the time of shipping.

If you purchase books in advance of matriculating to campus, students should be aware that airlines have weight restrictions for checked luggage. Be sure to verify the luggage weight limit for your airlines beforehand. Students may ship their books to campus through either Amerijet or Tropical Shipping.

Tablet/Laptop Computers

Students are required to bring a laptop/tablet computer to campus as of first semester. UMHS has followed the lead of U.S. medical schools in developing a digital library of histological and pathological images. Students can use their computers to manipulate the images and resolution to optimize their learning experience.

More detailed information about laptop and tablet requirements can be found at <https://www.umhs-sk.org/index.php/accepted-students/laptop-computers>. For questions about laptop/tablet computer requirements, contact IT Director Wayne Williams at wwilliams@umhs-sk.net.

Transportation Costs

Students are required to pay for their airfare to the island and all travel costs to clinical sites in the U.S. and Canada.

UMHS provides transportation for all students to and from campus and their housing locations on St. Kitts. Students may choose to purchase or lease a car from a private individual for the time they are in St. Kitts. The costs associated with purchasing and maintaining a used car can vary widely and range between \$3,000 to \$5,000. Students should be aware that the vehicle purchase is solely the student's responsibility and not a function of any office at the University. Students should check the campus bulletin boards for advertisements on used cars.

Living Expenses

Students need to budget for typical living expenses, including housing, utilities, food, local transportation, and entertainment. Costs will vary based on the level of accommodation and location.

STUDENT FINANCIAL ASSISTANCE

FINANCIAL AID

It is never too early to start thinking about how to finance your medical education. While the financial aid process may seem daunting for many students, the financial aid counselors at UMHS can help you build a successful financial plan for your future as a health care professional. UMHS offers several forms of financial aid for those who qualify.

As soon as you submit your admission application, you should start reviewing all of the information in the financial aid section of our website. Once accepted, and within 180 days of your anticipated matriculation term, you will receive a financial aid package to the email address you entered on your admission application. Once you have read your financial aid package, you should call for counseling. As soon as you get the financial aid package email, follow the instructions to start your application for any loan necessary.

It is important to review and understand how your existing education debt, personal financial resources, and credit history may impact your ability to finance your medical education. You will always get an honest evaluation of your financial preparedness to attend UMHS. Should it be determined that you may lack the ability to finance your education at the moment, we will be straightforward with our professional evaluation and help you plan for the future.

Once you are an enrolled student, the Office of Financial Aid will continue to guide you down a healthy financial path. Credit counseling is always available as you progress through the educational program at UMHS.

FINANCIAL AID PLANNING AND COUNSELING

All students are advised to call or visit the Office of Financial Aid, prior to matriculation, to discuss and develop a viable financial plan for their education. After counseling and plan development, you will understand:

1. How much money you will need, when you will need it, and where you will get it from.
2. Your credit report and how credit history affects your ability to obtain student loans.
3. What you can do to build good credit and how debt management can help maintain your financial health.
4. What you need to do for any existing student loans you may have while you are in enrolled in UMHS.

LOAN PROGRAMS FOR U.S. CITIZENS AND PERMANENT RESIDENTS

Borrowing funds to pay for educational costs is a tremendous responsibility. All loans borrowed must be repaid, regardless of your academic or professional success. If you default, you risk ruining your credit, which can burden you for up to 10 years and can affect your ability to secure credit, housing, or even employment. Thus, we urge you to borrow only as much as you absolutely need to cover your educational expenses, which may not be your full cost of attendance. Student loans have varying interest rates and terms of length that can affect the total amount a borrower will pay over the life of the loan. Typically, repayment begins after students have completed their education.

A student will not be permitted to borrow more than the cost of attendance for each loan period. Even if a student loan is credit approved by a lender for an amount larger than the cost of attendance, the Office of Financial Aid can only certify a maximum amount equal to that of your total cost. Consumer or other personal debt (credit cards, mortgages, car payments, legal fees, family support, etc.) cannot be included in the cost of attendance. Please refer to the Cost of Attendance (page 76) for an explanation of what is included in the COA.

It is important to know what is on your credit report. You are eligible for a free copy of your report once a year, and any time you are denied housing, insurance, employment, or credit based on the data in your report. You can get your free annual copy online at: <https://www.annualcreditreport.com>.

Since Sallie Mae is our main provider of aid, it is especially important to review your Trans Union report, as this is the agency Sallie Mae will likely use to assess your creditworthiness. Your score is not as important as the detailed account histories contained in your full report. These historic credit details are what the lender will base their credit decision on. Full cost of attendance for each loan period can be covered by Sallie Mae's Smart Option Loan or Parent Loan programs. Your cost of attendance and the semesters included in your loan period will vary according to your progress through the curriculum. The cost of attendance budgets for both the standard M.D. curriculum and the EBS curriculum can be found at: <https://www.umhs-sk.org/index.php/cost-of-attendance-m-d-program-1>. You will also get a financial aid package via email with your personal COA prior to each award year start.

SALLIE MAE MEDICAL SCHOOL LOAN PROGRAM

UMHS has partnered with Sallie Mae to offer their Medical School Loan program to UMHS students of U.S. citizenship or U.S. Permanent Residency. The Sallie Mae Medical School Loan Program is a private educational loan. This means that it is not subsidized by the federal government, nor is an approval guaranteed. The lender's decision to approve a loan request will be based on the student's, and any co-signer's, creditworthiness as displayed by the data in their credit report. This may also include a review of the applicant's debt-to-income ratio.

Features of The Medical School Loan:

- Easy online application
- Three repayment options to choose from, including deferred until after graduation or minimum monthly payments while in school.
- Competitive interest rates, with the choice of variable or fixed rate once your request is approved
- Up to 20 years to repay with no prepayment penalties.
- 36-month grace period
- Up to 48 months of residency and internship deferment
- There is no co-signer requirement; however, applying with a creditworthy cosigner may help you qualify and/or receive a lower interest rate.

To download brochures about these loans or to access applications, visit: <https://www.umhs-sk.org/index.php/financial-aid/loan-programs>.

PLEASE DO NOT APPLY FOR ANY LOANS UNTIL YOU RECEIVE YOUR FINANCIAL AID PACKAGE EMAIL.

You will get a financial aid package at the appropriate time to apply or reapply. Please be sure to wait for those instructions before submitting any applications to Sallie Mae.

SALLIE MAE PARENT LOAN PROGRAM

The Sallie Mae Parent Loan gives parents, and/or other family and non-family sponsors, a flexible way to borrow an education loan in the sponsor's name only. The loan, which features competitive interest rates, no up-front fees, and a choice of repayment options, can cover 100 percent of the student's school-approved costs. While this is still a credit-based, private education loan, the student bears no financial responsibility and the student does not need to meet the lender's credit criteria. This new loan program can be used in conjunction with, or replacement of, the Smart Option loan program. This is a great opportunity for students who do not qualify for the Smart Option loan

due to credit history, but have good co-signers who are willing to assist them. However, remember, that no student can receive aid in excess of their cost of attendance, as outlined by school administration.

To download brochures about these loans, visit: <https://www.umhs-sk.org/index.php/financial-aid/loan-programs>.

SALLIE MAE RESIDENCY AND RELOCATION LOAN PROGRAM

The Residency and Relocation Loan from Sallie Mae allows students to finance the costs associated with finding a medical residency, including travel to interviews and relocation costs. If you're enrolled at least half time in your final year of study, or have graduated from medical school in the last 12 months, you can use the loan to cover board examination expenses, as well as other expenses not included in your school's cost of attendance.

Apply online directly to Sallie Mae: <https://www.salliemae.com/student-loans/global-residency-loan>.

UMHS INSTITUTIONAL LOAN PROGRAM

UMHS maintains an emergency loan program for students who have been unsuccessful at qualifying for Sallie Mae's Smart Option or Parent Loan programs. This University-funded program provides small, per-term loans to students who have made a concerted effort to obtain funding for the upcoming term and have fallen short of their need. Loans approved under this program are applicable towards tuition only. Students must have been denied by Sallie Mae. Contact the Office of Financial Aid for further information and to determine eligibility.

IN-SCHOOL DEFERMENT FOR YOUR PREVIOUS STUDENT LOANS

Students who have borrowed previous education loans need to be diligent about monitoring the status of ALL existing student loan accounts while enrolled at UMHS.

Since UMHS has not been approved to participate in the federal student aid programs, any existing student loans will not be eligible for in-school deferment. UMHS also does not automatically report enrollment to lenders.

In-school deferment forms require a federal school code. UMHS does not have a federal school code. If a deferment form is submitted to Registrar, the form will be completed, less the school code field, and submitted to your lender. Approval is not guaranteed. You must monitor your accounts to ensure the outcome of your deferment request. If your deferment is not approved by your lender, you should be able to apply for forbearance.

FINANCIAL AID OPTIONS FOR CANADIAN STUDENTS

Most major banks in Canada (Scotia, NBC, RBC) offer lines of credit for students studying outside Canada. These educational lines of credit are specifically designed to fund the costs associated with the student's studies.

For students studying outside of Canada, most lenders will require a credit worthy co-signer in order for the student to obtain an approval. Approvals are made at the discretion of the local branch where the application is submitted. Students are advised to apply at the location they and/or their co-signers conduct most of their banking transactions. Credit-based loans and lines of credit are typically approved for students and their co-signers who have a good credit rating.

Accepted students should provide the bank with a copy of their letter of admissions along with a printout of the UMHS IMED directory listing (<https://www.wdoms.org>) and the CaRMS Eligibility Criteria (<https://www.carms.ca/the-match>).

PROVINCIAL STUDENT LOANS

Canadian students are eligible for Provincial Loans in the province of residence—for example, Ontario residents are eligible for an Ontario Student Assistance Program (OSAP) loan. Students may apply for up to 52 weeks of financial assistance annually. Canadian students should contact their individual provinces directly for information regarding additional requirements.

Additional information may be available from the provincial and territorial student financial assistance offices:

Alberta:

studentaid.alberta.ca

New Brunswick:

www2.gnb.ca

Newfoundland Labrador:

aes.gov.nl.ca/studentaid/apply

Northwest Territories:

nwtfsa.gov.nt.ca

Nova Scotia:

studentloans.ednet.ns.ca

Ontario:

osap.gov.on.ca/OSAPPortal

Prince Edward Island:

studentloan.pe.ca

Saskatchewan:

saskatchewan.ca/studentloans

VETERANS ADMINISTRATION (VA) EDUCATION BENEFITS

UMHS WELCOMES U.S. VETERANS

The University of Medicine and Health Sciences is pleased to announce that it is approved by the Department of Veterans Affairs (VA), enabling eligible veterans, service persons, and certain dependents of veterans to receive VA educational benefits. Eligible persons may receive benefits under one of several types of GI Bills:

Chapter 30 - Montgomery GI Bill®

Chapter 31 - Disabled Veterans Vocational Rehabilitation Program

Chapter 32 - Veterans Educational Assistance Program (VEAP)

Chapter 33 – Post 9/11 GI Bill®

Chapter 35 - Dependents Educational Assistance Program

Chapter 1606 - Montgomery GI Bill® Selected Reserve Educational Assistance Program

Chapter 1607 - Reserve Educational Assistance Program (REAP)

For a complete description of each chapter, please visit www.benefits.va.gov/gibill. GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA).

HOW TO APPLY

We encourage new UMHS applicants to visit www.benefits.va.gov/gibill and fill out the available online application. You will receive a Certificate of Eligibility. Please note that the UMHS Office of the Registrar will require a copy of your paperwork.

You may also need the following records: Form DD 214, Report of Separation or Discharge; or Form DD 2384, Notice of Basic Eligibility (NOBE) if you are a Reservist or National Guard member.

Benefits will vary by program, so it's important to visit the VA site for further details. The monthly benefit paid to you is based on the type of training, length of service, category, and participation in the MGIB Fund. For information, visit the Education Benefit Payment Rates page.

Applying for Chapter 31 - Disabled Veterans Vocational Rehabilitation Program

A veteran who is eligible for an evaluation under Chapter 31 must first apply for services and receive an appointment with a Vocational Rehabilitation Counselor (VRC). Please visit <https://www.benefits.va.gov/vocrehab/index.asp> for further information on eligibility and applying for benefits. If eligible, you will receive your VA Form 28-1905 from your counselor that lists the dates of your Chapter 31 eligibility and the degree program authorized. This form must be submitted to the UMHS Office of the Registrar, along with the IEVER form. As with the other benefit chapters, you must submit the IEVER each semester in order for UMHS to certify your continued enrollment or whenever there is a change in your status.

Student Responsibilities

In order to begin receiving Veterans Affairs (VA) education benefits as a UMHS student, you must complete an initial application with the VA. These forms are available at <https://gibill.va.gov/apply-for-benefits>. After you receive the Certificate of Eligibility, please submit a copy to the UMHS Office of the Registrar.

The IEVER form must then be submitted by students who are receiving VA education benefits so that UMHS can verify Enrollment Certification on VA-ONCE. Certification is required by the VA in order for students to continue receiving VA education benefits.

Per the VA Benefit Administration, UMHS is required to report a change in student status, including:

1. Withdrawal
2. Leave of absence
3. Vacation (only after completing fifth semester)
4. Temporary withdrawal (any time there is a gap in curriculum that is not an approved leave or vacation period)
5. Less than full-time status (applicable only during Basic Sciences)
6. Student graduated

UMHS is also required to report the following enrollment-related information:

1. Certify that enrollment is only for those subjects that apply to the student's program
2. Report when a student was dismissed due to unsatisfactory progress
3. Report when a student is suspended or dismissed for unsatisfactory conduct

The IEVER form must be submitted to the UMHS Office of the Registrar within one week of a change in status and during the twelfth week of the current enrollment in order to have enrollment verified for the following term. Please note that official enrollment certification will not occur until after each term's in-person registration period or when there has been verification of attendance in a clinical rotation. The change in status reporting will be completed within 30 days of any action.

UMHS VETERANS SCHOLARSHIP

We are proud to offer the Robert Ross Veterans Scholarship. This is a need—and merit-based scholarship that is available to veterans, servicemen, and servicewomen during Basic Science. Students may be eligible for up to \$1,000 per semester. Students interested in the program should contact the Office of Financial Aid (finaid@umhs-sk.net) for further details.

VA BENEFITS USED AT A PRIOR SCHOOL

If you are a veteran who previously received benefits at another institution, you must complete a Request for Change of Place of Training (VA Form 22-1995) and return it to the VA Office and the UMHS VA Certifying Official, along with copies of your DD form 214 (Discharge from Active Duty) and Certificate of Eligibility.

QUESTIONS ABOUT BENEFITS

If you have any questions regarding VA education benefits, you may contact the VA Regional Office at 1-800-827-1000. Please note that the Eastern Region Office handles applications for foreign schools.

CONTACT INFORMATION

UMHS VA Certifying Official

Dr. Brijette Sena

Office of the University Registrar

460 W. 34th St. 4th Floor

New York, NY 10001

Department of Veterans Affairs VA Education Service

www.gibill.va.gov

1-888-GIBILL-1 (1-888-442-4551)

VA Regional Office - Eastern Region and Foreign Schools

P.O. Box 4616

Buffalo, NY 14240-4616

Phone: 1-800-827-1000

Fax: 716-551-3241

SCHOLARSHIPS

DEAN'S SCHOLARSHIP, PRESIDENT'S SCHOLARSHIP, AND FOUNDER'S SCHOLARSHIP PROGRAMS

The Dean's, President's, and Founder's Scholarships are merit-based awards provided to qualified students as new matriculates. Awards granted under these programs are based on the academic strengths shown in each accepted student's admission application file. All accepted students are considered for these programs. No additional application is required to apply. Awards granted under these programs are applicable towards tuition for Basic Science semesters attended on the St. Kitts campus. A comprehensive review of the accepted student's admissions file is conducted to determine award amounts. We will weigh all cumulative GPAs, as well as GPAs for all premedical coursework, advanced biology coursework, and graduate and medical school coursework.

DEAN'S SCHOLARSHIP

Award amount is \$1,250/term or \$1,000/term for students in the EBS program.

PRESIDENT'S SCHOLARSHIP

Award amount is \$1,500/term or \$1,200/term for students in the EBS program.

FOUNDER'S SCHOLARSHIP

Award amount is \$1,750/term or \$1,400/term for students in the EBS program.

Recipients will be notified via email. Terms of each award will be outlined in the award letter.

DR. WILLIAM THURMAN SCHOLARSHIP FOR ACADEMIC EXCELLENCE

Founding Provost, Dr. William Thurman, made an enormous contribution to the creation and development of UMHS. His spirit of professionalism, along with a clear student-centered approach, lives on and is part of the UMHS ethos. Dr. Thurman loved medicine and always inspired students to achieve greatness. To honor his memory and lasting impact on our University, the Board of Trustees has established the Dr. William Thurman Scholarship for Academic Excellence. This scholarship will be awarded to exemplary students who demonstrate academic excellence during their clinical semesters.

The Dr. Thurman Scholarship will be implemented on September 1, 2018. The scholarship will be awarded towards semesters 6–10. All clinical semesters starting on or after September 1, 2018 will be considered. This scholarship will not be applied retroactively. The Dr. Thurman Scholarship for Academic Excellence bears a per-semester award of \$1,000 for students meeting the following criteria:

- Must maintain a minimum CGPA of 3.80 for an award toward any clinical semester
- Must achieve a minimum of 75 on the first attempt of all NBME Core Shelf exams, for an award toward semesters 7, 8, and 9
- Must be in good academic standing for an award toward any clinical semester
- Must earn a score of 240 or higher on a first attempt at USMLE Step 1 for a semester 6 award
- Must earn a score of 240 or higher on first attempt at USMLE Step 2 CK for a semester 10 award

Starting in June 2018, in recognition of the graduating student demonstrating the highest academic achievements, the scholarship will grant an annual award to the valedictorian in the amount of \$2,500. The award will be disbursed directly to the valedictorian at graduation.

Students that have any questions should contact Dr. Brijette Sena, Associate Dean of Academic Administration, at bsena@umhs-sk.net. There is no application necessary. Students' academic records will be reviewed upon receipt of each NBME and USMLE Score. Any award granted will be applied to the appropriate semester.

ST. KITTS SCHOLARSHIP

In concert with the Kittian Government, UMHS offers two significant scholarship awards will be made to citizens of St. Kitts and Nevis. Students interested in applying for the Kittitian scholarship should contact the Human Resource Management Department, Office of the Prime Minister of the Federation of St. Christopher and Nevis. Government Headquarters P.O. Box 186, Church Street, Basseterre, St. Kitts, email humanresources@gov.kn, or call 869-467-1040.

THIRD PARTY SCHOLARSHIPS

The White Coat Investor Scholarship provides several awards based on total funds raised. You must have a valid U.S. Social Security number to apply.

COST OF ATTENDANCE

The Cost of Attendance (COA) budgets below demonstrate the realistic anticipated expenses students can expect to incur while enrolled in the University of Medicine and Health Sciences' Doctorate of Medicine (M.D.) program. All figures are based on a typical student's expenses for each identified enrollment period/award year. Cost of attendance budgets, by federal regulation, are designed for a student to live and support themselves modestly, like a student, during the instructional time. Some of these expenses will be billed by the school; others are indirect expenses that students must budget for.

Students may not receive a total amount of aid, from all sources (student loans, scholarships, grants, VA benefits), in excess of their COA for any term or loan period. Aid cannot be applied to items not included in the cost of attendance. Expenses such as family support, mortgage/rent for a second residence (home), credit card debt, or car payments cannot be included in the cost of attendance.

EXPENSES INCLUDED IN THE COST OF ATTENDANCE

Tuition

Tuition fees covers the costs of classes. Effective for the Fall 2018 term, tuition will be charged at a rate of \$13,200 for Basic Science semesters and \$10,930 for Extended Basic Science semesters attended in St. Kitts. Tuition for semester five, attended at the Maine campus, and for all clinical semesters attended at approved U.S. hospital sites, is charged at \$15,850 per semester. Your actual tuition and individualized cost of attendance budget may differ as per your curricular path and registration data.

Room and Board

Students need to budget for typical living expenses incurred during daily life: housing, utilities, food, etc. Estimates provided anticipate that students will live in safe, comfortable, but modest accommodations. This will generally mean living like a student with a roommate. Costs for housing expenses are calculated at \$1,000 per month. Food allowance is included at \$100 per week.

Transportation Fees

Expense for travel to and from the island, as well as on the island, are included in your cost of attendance. \$900 for one round-trip air ticket per semester is included, as well as \$15 per week for transportation expenses on the island; \$50 per week during clinical semesters.

Books and Supplies

Accepted students will be provided with a list of the books and supplies to purchase each semester. The average cost for books and supplies is \$700 per Basic Science semester. Books for semesters one and two are typically bought at the beginning of semester one. Actual expense will vary for EBS and Clinical students.

Fees

In addition to tuition, students are responsible for administrative, lab, and student government fees each semester. There is an \$800 charge per semester to cover lab and administrative fees for Basic Science semesters. Students enrolled in a semester at UMHS' St. Kitts campus will also be charged a \$30 student government fee each semester.

Personal Incidentals

A \$50 per week allowance for any miscellaneous personal expenses students may incur is included.

Health and Air Evacuation Insurance

All students are required to have medical and emergency evacuation insurance. If you do not have coverage, you will be given the option to purchase insurance through UMHS. If you already have health insurance, be sure to contact your provider to ensure coverage will remain effective while you are attending school outside of the U.S. A median rate of the school sponsored policy is included in the COA for health insurance, as well as the actual per-semester charge for air evacuation insurance.

Liability Insurance

In order for students to participate in clinical training, liability insurance will be required while at any U.S. affiliate clinical site.

Graduation and Post-Graduation

There will be additional fees associated with graduation ceremonies (i.e. school pins, photos, cap and gown). Graduation and post-graduation expenses are not included in your cost of attendance. The fee for graduation is currently \$500.

Study Review

Study review courses, licensing exam fees, and relocation expenses are not included in your cost of attendance. These expenses are not eligible to be included in the cost of attendance or for student aid. However, other resources may be available specifically for financing these additional expenses, which fall outside of your required curriculum.

ESTIMATED COST OF ATTENDANCE: M.D. PROGRAM

(Effective Fall 2018)

M.D. PROGRAM: FIRST AWARD YEAR

ITEMIZED EXPENSES	SEM 1	SEM 2	SEM3	TOTAL
Tuition	\$13,200	\$13,200	\$13,200	\$39,600
Room and Board	\$6,500	\$5,500	\$5,500	\$17,500
Transportation	\$1,125	\$1,125	\$1,125	\$3,375
Books and Supplies	\$1,400	\$300	\$700	\$2,400
Lab and Misc. School Fees	\$830	\$830	\$830	\$2,490
Personal Incidentals	\$750	\$750	\$750	\$2,250
Air Evacuation Insurance	\$105	\$105	\$105	\$315
Health Insurance	\$400	\$400	\$400	\$1,200
TOTAL	\$24,310	\$22,210	\$22,610	\$69,130

M.D. PROGRAM: SECOND AWARD YEAR

ITEMIZED EXPENSES	SEM 4	TOTAL
Tuition	\$13,200	\$13,200
Room and Board	\$5,500	\$5,500
Transportation	\$1,125	\$1,125
Books and Supplies	\$700	\$700
Lab and Misc. School Fees	\$830	\$830
Personal Incidentals	\$750	\$750
Air Evacuation Insurance	\$105	\$105
Health Insurance	\$400	\$400
TOTAL	\$22,610	\$22,610

M.D. PROGRAM: THIRD AWARD YEAR

ITEMIZED EXPENSES	SEM 5	TOTAL
Tuition	\$15,850	\$15,850
Room and Board	\$5,500	\$5,500
Transportation	\$1,675	\$1,675
Books and Supplies	\$300	\$300
Personal Incidentals	\$775	\$775
Health Insurance	\$400	\$400
Liability Insurance	\$350	\$350
USMLE STEP 1	\$610	\$610
TOTAL	\$25,510	\$25,510

M.D. PROGRAM: FOURTH AWARD YEAR

ITEMIZED EXPENSES	SEM 6	SEM 7	SEM 8	TOTAL
Tuition	\$15,850	\$15,850	\$15,850	\$47,550
Core Shelf Exams	\$214	\$214	\$214	\$642
Room and Board	\$5,600	\$5,600	\$5,600	\$16,800
Transportation	\$1,700	\$1,700	\$1,700	\$5,100
Books and Supplies	\$300	\$300	\$300	\$900
Personal Incidentals	\$800	\$800	\$800	\$2,400
Health Insurance	\$400	\$400	\$400	\$1,200
Liability Insurance	\$350	\$350	\$350	\$1,050
TOTAL	\$25,214	\$25,214	\$25,214	\$75,642

MD PROGRAM: FIFTH AWARD YEAR

ITEMIZED EXPENSES	SEM 9	SEM 10	TOTAL
Tuition	\$15,850	\$15,850	\$31,700
Room and Board	\$5,500	\$5,500	\$11,000
Transportation	\$1,650	\$1,650	\$3,300
Books and Supplies	\$300	\$300	\$600
Personal Incidentals	\$750	\$750	\$1,500
Health Insurance	\$400	\$400	\$800
Liability Insurance	\$350	\$350	\$700
USMLE STEP 2, CK	\$610		\$610
USMLE STEP 2, CS		\$1,285	\$1,285
TOTAL	\$25,410	\$26,085	\$51,495

COST OF ATTENDANCE FOR THE EBS PROGRAM

EBS PROGRAM: FIRST AWARD YEAR

ITEMIZED EXPENSES	SEM 1	SEM 2	SEM3	TOTAL
Tuition	\$10,930	\$10,930	\$10,930	\$32,790
Room and Board	\$6,500	\$5,500	\$5,500	\$17,500
Transportation	\$1,125	\$1,125	\$1,125	\$3,375
Books and Supplies	\$1,400	\$300	\$500	\$2,200
Lab and Misc. School Fees	\$830	\$830	\$800	\$2,490
Personal Incidentals	\$750	\$750	\$750	\$2,250
Air Evacuation Insurance	\$105	\$105	\$105	\$315
Health Insurance	\$400	\$400	\$400	\$1,200
TOTAL	\$22,040	\$19,940	\$20,140	\$62,120

EBS PROGRAM: SECOND AWARD YEAR

ITEMIZED EXPENSES	SEM 4	SEM 5	TOTAL
Tuition	\$10,930	\$10,930	\$20,860
Room and Board	\$5,500	\$5,500	\$11,000
Transportation	\$1,125	\$1,125	\$2,250
Books and Supplies	\$500	\$500	\$1,000
Lab and Misc. School Fees	\$830	\$830	\$1,660
Personal Incidentals	\$750	\$750	\$1,500
Air Evacuation Insurance	\$105	\$105	\$210
Health Insurance	\$400	\$400	\$800
TOTAL	\$20,140	\$20,140	\$40,280

EBS PROGRAM: THIRD AWARD YEAR

ITEMIZED EXPENSES	SEM 5	TOTAL
Tuition	\$15,850	\$15,850
Room and Board	\$5,500	\$5,500
Transportation	\$1,675	\$1,675
Books and Supplies	\$300	\$300
Personal Incidentals	\$775	\$775
Health Insurance	\$400	\$400
Liability Insurance	\$350	\$350
USMLE STEP 1	\$610	\$610
TOTAL	\$25,510	\$25,510

EBS PROGRAM: FOURTH AWARD YEAR

ITEMIZED EXPENSES	SEM 6	SEM 7	SEM 8	TOTAL
Tuition	\$15,850	\$15,850	\$15,850	\$47,550
Core Shelf Exams	\$214	\$214	\$214	\$642
Room and Board	\$5,600	\$5,600	\$5,600	\$16,800
Transportation	\$1,700	\$1,700	\$1,700	\$5,100
Books and Supplies	\$300	\$300	\$300	\$900
Personal Incidentals	\$800	\$800	\$800	\$2,400
Health Insurance	\$400	\$400	\$400	\$1,200
Liability Insurance	\$350	\$350	\$350	\$1,050
TOTAL	\$25,214	\$25,214	\$25,214	\$75,642

EBS PROGRAM: FIFTH AWARD YEAR

ITEMIZED EXPENSES	SEM 9	SEM 10	TOTAL
Tuition	\$15,850	\$15,850	\$31,700
Room and Board	\$5,500	\$5,500	\$11,000
Transportation	\$1,650	\$1,650	\$3,300
Books and Supplies	\$300	\$300	\$600
Personal Incidentals	\$750	\$750	\$1,500
Health Insurance	\$400	\$400	\$800
Liability Insurance	\$350	\$350	\$700
USMLE STEP 2, CK	\$610		\$610
USMLE STEP 2, CS		\$1,285	\$1,285
TOTAL	\$25,410	\$26,085	\$51,495

FINANCIAL AID POLICIES

AID LIMITS

Students cannot receive total aid (loans + scholarships + grants + VA benefits + any other third party aid) in excess of their annual cost of attendance (COA). Even if you are awarded aid in amounts greater than your cost of attendance, the financial aid office can only certify a maximum amount equal to that of your total cost for the loan period in question. Grants and scholarships will be applied to your COA before any loans. Loans will be reduced to accommodate any “free” money a student is awarded.

FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS POLICY

In order to remain eligible for financial aid (loans, grants, scholarships) students must maintain satisfactory academic progress (SAP). SAP will be reviewed by the Financial Aid Office after each term. SAP guidelines are outlined by the Registrar and are available in the Student Handbook. Should a student fail to meet the guidelines upon completion of any given term, the following term’s financial aid will be disbursed on a probationary status.

If a student fails to meet SAP requirements for a second consecutive semester, financial aid eligibility will be suspended until the student can regain good academic standing.

Though a student may not be eligible to receive financial aid, this does not mean they will not be permitted to attend. Students on financial aid suspension may continue to attend, so long as the Registrar permits and the student has an alternative source of financing.

IN-SCHOOL DEFERMENT OF YOUR PREVIOUS STUDENT LOANS

Students who have borrowed previous education loans need to be diligent about monitoring the status of ALL existing student loan accounts while enrolled at UMHS.

Since UMHS has not been approved to participate in the federal student aid programs, any existing student loans will not be eligible for in-school deferment. UMHS also does not automatically report enrollment to lenders.

In-school deferment forms require a federal school code. UMHS does not have a federal school code. If a deferment form is submitted to Registrar, they will be completed, less the school code field, and submitted to your lender. However, approval is not guaranteed. You must monitor your accounts to ensure the outcome of your deferment request.

If the request is not approved, you can apply for a forbearance. Forbearance is another type of non-repayment status. However, you **MUST** make sure to make ALL required payments ON TIME, and IN FULL, until either a deferment or forbearance is approved. Failure to maintain all of your student loan accounts can result in an inability to qualify for the funding you need for your medical education.

Sallie Mae does not take lightly any delinquencies that may appear on your credit report for any student loans. Depending on the severity of the delinquency, you may not even qualify with a good co-signer. This will leave you with very limited funding options. Do not put yourself in this position.

FERPA COMPLIANCE

In accordance with the Family Educational Rights of Privacy Act (FERPA), UMHS does not disclose personally identifiable information from any educational records to any person or agency, unless the student has given written and specific consent. This includes details of your financial aid: loan status and amounts, scholarship, or grant status and amounts, etc. If you wish to consent permission for the details of your financial aid to be discussed with someone other than yourself, you must complete the UMHS Information Disclosure Consent Form and return it to the Financial Aid Office.

UNIVERSITY OF MEDICINE AND HEALTH SCIENCES

Office of Financial Aid

460 West 34th Street, 4 Floor

New York, NY 10001

Tel: 212-868-0855 or 866-686-0380

Email: finaid@umhs-sk.net

Monday–Friday: 7:30am–5:00pm Eastern Standard Time

Saturday, Sunday: Closed

UMHS ADMINISTRATIVE AND SATELLITE ADMISSIONS OFFICES

The UMHS Administration and Satellite Admissions Offices are strategically located in several regions of the U.S. as a resource for prospective students, current students, and alumni.

These offices play a vital role in helping prospective students and their families navigate the complicated medical school selection process. All of our satellite offices provide regional residents the same type of personalized experience they would receive walking through the doors at our New York administrative office.

For general admissions inquiries or details about your next steps, you can call our main admissions phone number at 866-686-0380 or email admissions@umhs-sk.net.

If you'd like to visit one of our offices for an in-person appointment with an admissions staff member, call one of the numbers below. Of course, walk-ins are always welcome.

NORTH AMERICAN ADMINISTRATIVE OFFICE

460 West 34th Street, 4th Floor
New York, NY 10001

Toll Free: (866) 686-0380; Direct: (212) 868-0855

MARIE MCGILLYCUDDY

Vice President of Admissions

mmcgillicuddy@umhs-sk.net

BRITTANY MCCONNELL

Associate Director of Applicant Services

bmcconnell@umhs-sk.net

NELIDA ALVAREZ

Post Acceptance Director

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MIDWEST/CANADA REGIONAL OFFICE

5777 Maple Road, Suite 145

West Bloomfield, MI 48322

Toll Free: (877) 363-8558; Direct: (248) 363-8558

MICHELLE PERES

VP of Enrollment Management

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CAROLE WALKER

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SOUTHEAST REGIONAL OFFICE

224 Datura Street, Suite 1115

West Palm Beach, FL 33401

Toll Free: (877) 547-1520; Direct: (561) 820-8771

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Admissions Counselor

ssurowitz@umhs-sk.net

ST. KITTS CAMPUS

P.O. Box 1218

Basseterre, St. Kitts

Toll Free: (869) 466-2043; Direct: (869) 466-1057

WESTERN REGIONAL OFFICE

Direct: (408) 693-5999

ELENA PEARSON

Assistant Director of Admissions

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DISCLAIMERS

This publication has been authorized and approved by the Board of Trustees, President, and Dean of the University of Medicine and Health Sciences. In this publication are descriptions of the UMHS educational program and facilities.

All content in the UMHS catalog is subject to change at any time. This includes, but is not limited to, tuition and fees, admissions, curriculum, clinical rotation locations, and requirements to graduate. Any changes are applicable from the time of the change to prospective and enrolled students. Date of catalog issue: February 2019.

The University of Medicine and Health Sciences reserves the right to modify or change the curriculum, tuition, or fees of any sort without prior notice. UMHS also reserves the right to modify or change examination and semester

schedules without prior notice. Each student is responsible for complying with the degree requirements in effect at the time of their enrollment and attendance.

The University of Medicine and Health Sciences admits students without regard to race, color, national origin, gender, religion, disability, or age, to all rights, privileges, programs, and activities generally made available to students at the University. It does not discriminate on the basis of race, color, national origin, gender, religion, disability, or age in administration of its educational programs and other University-administered policies.

*UMHS is continually adding to its faculty. Please refer to our website at www.umhs.org for a complete faculty listing.



North American Administrative Office
460 West 34th Street, 4th Floor
New York, NY 10001

QUESTIONS

U.S./Canada: 866.686.0380
admissions@umhs-sk.net

