

Chartered and registered by:

The Jamaica Tertiary Education Commission (J-TEC),
Ministry of Education, Youth & Information – Jamaica (West Indies).
Registration Number: 2022082018

Accreditation by the University Council of Jamaica:
Stage 1 'Candidacy Status' approved.

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BIMS (SOM-HP)

FOUR-YEAR MD PROGRAM

The BIMS (SOM-HP) aims to provide:

An integrated and flexible curriculum that promotes the skill and art of medicine, critical thinking, and lifelong learning needed to succeed as a practicing physician.

BIMS SOM-HP'S educational program utilizes the most innovative and current methods for delivery of a medical education leading to the MD – Doctor of Medicine (MD) degree after Four (4) years of study:

FOUR YEAR MD PROGRAM OVERVIEW:

The MD program further consists of a [162-week curriculum](#) that is typically completed within four calendar years:

- **Total Years = 4**
- **Total Weeks = 162**
- **Total Credits = 236**
- **Total Credit Hours = 708**

The Four-Year MD program is classified into two phases:

A. BASIC SCIENCES (PRECLINICAL):

Year 1 and 2 of academic years comprises a total of:

- Two years
- 80 weeks
- 156 Credits
- 468 credit hours of study at BIMS (SOM-HP) campus in Montego Bay, Jamaica.

B. CLINICAL TRAINING

Year 3 and 4 of academic years comprises a total of:

- Two years
- 82 weeks
- 80 Credits
- 240 credit hours of rotating through clerkships in the Clinical Sciences at BIMS (SOM-HP) associated teaching and participating hospitals principally in the United States, Jamaica, wider Caribbean and Asia

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CREDITS & CREDIT HOURS

A total of **708 credit hours** are required at BIMS (SOM-HP) to obtain the Doctor of medicine Degree, as follows:

- **Years 1 & 2:** Introduction to basic sciences with correlated subject wise teaching, incorporating basic and clinical sciences in the study of an organ system, **for a total of 468 credit hours**.
- **Years 3 & 4:** Clinical training is directed towards the area of clinical medicine that are important in family practice, **for a total of 240 credit hours**.

These are:

	Year I	Duration (Weeks)	Credits	Credit Hours
	Semester 1	16Weeks	30	90
	Semester 2	16 Weeks	32	96
	Semester 3	16 Weeks	37	111
TOTAL Year 1	Three Semesters	48 Weeks	99	297

	Year II	Duration (Weeks)	Credits	Credit Hours
	Semester 4	16Weeks	30	90
	Semester 5	16 Weeks	27	81
TOTAL Year 2	Two Semesters	32 Weeks	57	171

	Year III	Duration (Weeks)	Credits	Credit Hours
	Internal Medicine	12 Weeks	12	36
	General Surgery	12 Weeks	12	36
	Paediatrics (Adolescent) Medicine	06 Weeks	06	18
	Obstetrics & Gynaecology	08 Weeks	06	18
	Psychiatry	04 Weeks	06	18
TOTAL Year 3		42 Weeks	42	126

	Year IV	Duration (Weeks)	Credits	Credit Hours
	Family Medicine	04 Weeks	04	12
	Additional Electives	36 Weeks	34	112
TOTAL Year 4		40 Weeks	38	114
TOTAL for 4 Years		162 Weeks	236 Credits	708 Credit Hrs.

MEDICAL CURRICULUM

OVERVIEW

The medical curriculum offered at BIMS (SOM-HP) has adopted a flexible and an innovative trend in medical education with the delivery of a medical school curriculum which brings together the medical disciplines through integration of those branches but from a technology driven platform to:

- foster greater communication and cooperation among departments.
- develop a holistic perspective on the function of the human body in health and disease.
- develop an understanding of the basic sciences and find that the knowledge gained will be useful in the laboratory in the hospital or the physician's office.

The **four-year** MD Program is spread over four years (162 Weeks):

1. Years 1 and 2: **80 WEEKS** – BASIC SCIENCES (Preclinical)
2. Years 3 and 4: **82 WEEKS** – CLINICAL TRAINING
3. **GLOBAL HEALTH TRACK (GHT) PROGRAMME** - a four-year longitudinal track embedded into its curriculum.

- ❖ Year 1 and 2: Two academic years / 80 weeks of study at BIMS (SOM-HP) campus in Montego Bay, Jamaica and
- ❖ Year 3 and 4: Two academic years / 82 weeks of rotating through clerkships in the Clinical Sciences at teaching hospitals principally in the United States, Jamaica, Wider Caribbean and Asia.

The BIMS (SOM-HP) aims to provide:

An integrated and flexible curriculum that promotes the skill and art of medicine, critical thinking, and lifelong learning needed to succeed as a practicing physician.

BIMS SOM-HP'S educational program utilises the most innovative and current methods for delivery of a medical education leading to the MD – Doctor of Medicine (MD) degree after Four (4) years of study:

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BASIC SCIENCES (PRECLINICAL)

- Two years
- 80 weeks
- 156 Credits
- 468 credit hours of study at BIMS (SOM-HP) campus in Montego Bay, Jamaica.

OVERVIEW - BASIC MEDICAL SCIENCES CURRICULUM

The year 1 and 2 curriculum focus are mainly on the basic (foundational) medical sciences delivered in an integrated but subject wise learning experience.

The emphasis is on normal structure and function i.e.:

1. Normal Anatomy (Gross Anatomy, Histology, Embryology)
2. Physiology
3. Biochemistry &
4. Human Behavioral Medicine.

Courses offered are:

- | | |
|--|---|
| <ul style="list-style-type: none"> ❖ Cell Biology ❖ Molecular Biology & Human Genetics. ❖ Gross Anatomy, Histology & Embryology ❖ Physiology <ul style="list-style-type: none"> ✓ Musculoskeletal system and Skin ✓ Neuroscience, ✓ Gastroenterology ✓ Respiration ✓ Cardiovascular System ✓ Basic Haematology and Immunology ✓ Endocrinology and Reproduction | <ul style="list-style-type: none"> ❖ Biostatistics and Epidemiology ❖ Behavioral Sciences ❖ Microbiology & Immunology ❖ Neurosciences ❖ Introduction to Clinical Medicine ❖ Medical Spanish ❖ General Pharmacology ❖ Clinical Pharmacology ❖ Pathology ❖ Basic Principles of Clinical Medicine ❖ Clinical Pharmacology ❖ Integrated Systems Review (USMLE-Step 1 Preparatory Courses) |
|--|---|

EXPOSURE TO CLINICAL EXPERIENCE: The students have early exposure to pathological clinical experience within the Introduction to Clinical Medicine courses offered each semester during the Preclinical years. The students will be exposed to medical imaging in anatomy, activity in the Simulated lab area and case-based discussions in lectures and small groups.

INTRODUCTION TO CLINICAL MEDICINE: In, Introduction to Clinical Medicine, students begin to learn the art of interviewing patients in groups, and progress to learning physical exam skills and having individual sessions where they practice interviewing and physical exam skills under the direct supervision of attending physicians.

BASIC SCIENCES TOTAL CREDITS & CREDIT HOURS

SEMESTER	TOTAL CREDITS	CREDIT HOURS	DURATION
Semester 1 (Year 1)	30	90	16 weeks
Semester 2 (Year 1)	32	96	16 weeks
Semester 3 (Year 1)	37	111	16 weeks
Semester 4 (Year 2)	30	90	16 weeks
Semester 5 (Year 2)	27	81	16 weeks
Total	156	468	80 weeks

YEAR 1

YEAR 1 - SEMESTER 1

(16 Weeks = 30 Credits = 90 Credit hours):

YEAR - 1 / SEMESTER 1	COURSE CODE (Basic Sciences, Subject, Year 1, Semester 1 & Subject#)	SUBJECT	CREDITS	CREDIT HOURS	DURATION
	BSANA111	Gross Anatomy I and Embryology	8	24	16 weeks
	BSCBH112	Cell Biology and Histology I	6	18	16 weeks
	BSPHY113	Physiology I	6	18	16 weeks
	BSBIO114	Biochemistry I	4	12	16 weeks
	BSGMB115	Genetics and Molecular Biology I	2	6	16 weeks
	BSEBM116	Evidence based Medicine	2	6	16 weeks
	BSICM117	Introduction to Clinical Medicine I	2	6	16 weeks
	Total		30	90	16 weeks

YEAR 1 - SEMESTER 2

(16 Weeks = 32 Credits = 96 Credit hours)

YEAR 1 / SEMESTER 2	COURSE CODE (Basic Sciences, Subject, Year 1, Semester 2 & Subject#)	SUBJECT	CREDITS	CREDIT HOURS	DURATION
	BSPHY121	Physiology II	8	24	16 weeks
	BSBIO122	Biochemistry II	6	18	16 weeks
	BSANA123	Gross Anatomy II	6	18	16 weeks
	BSGMB124	Genetics & Molecular Biology II	4	12	16 weeks
	BSBED125	Biostatistics and Epidemiology	4	12	16 weeks
	BSCBH126	Cell Biology and Histology II	4	12	16 weeks
Total			32	96	16 Weeks

YEAR 1 - SEMESTER 3

(16 Weeks = 37 Credits = 111 Credit hours)

YEAR 1 / SEMESTER 3	COURSE CODE (Basic Sciences, Subject, Year 1, Semester 3 & Subject#)	SUBJECT	CREDITS	CREDIT HOURS	DURATION
	BSBHS131	Behavioral Sciences	13	39	16 weeks
	BSMBI132	Microbiology and Immunology	12	36	16 weeks
	BSNSC133	Neurosciences	9	27	16 weeks
	BSICM134	Introduction to Clinical Medicine II	2	6	16 weeks
	BSMES135	Medical Spanish	1	3	16 weeks
Total			37	111	16 weeks

YEAR 2

YEAR 2 - SEMESTER 4

(16 Weeks = 30 Credits = 90 Credit hours)

YEAR 2 / SEMESTER 4	COURSE CODE (Basic Sciences, Subject, Year 2, Semester 4 & Subject#)	SUBJECT	CREDITS	CREDIT HOURS	DURATION
	BSPHA241	Pharmacology	12	36	16 weeks
	BSPTH242	Pathology 1	12	36	16 weeks
	BSICM243	Introduction to clinical medicine III	6	18	16 weeks
	Total		30	90	16 weeks

YEAR 2 - SEMESTER 5

(18 Weeks = 19 Credits = 57 hours)

YEAR 2 / SEMESTER 5	COURSE CODE (Basic Sciences, Subject, Year 2, Semester 4 & Subject#)	SUBJECT	CREDITS	CREDIT HOURS	DURATION
	BSPTH251	Pathology 2	10	30	16 weeks
	BSCME252	Basic Principles of Clinical Medicine	4	12	16 weeks
	BSCPH253	Clinical Pharmacology	2	6	16 weeks
	BSISR254	Integrated Systems Review	11	33	2 weeks
	Total		27	81	16 weeks

SUMMARY OF BASIC SCIENCES / PRE-CLINICAL COURSES

YEAR 1 - SEMESTER 1:

Basic Principles of:

- ❖ Cell Biology, Histology and Gross Anatomy
- ❖ Physiology, Biochemistry, Genetics & Molecular Biology.

YEAR - 1 / SEMESTER 1	COURSE CODE (Basic Sciences, Subject, Year 1, Semester 1 & Subject#)	SUBJECT	CREDITS	CREDIT HOURS	DURATION
	BSANA111	Gross Anatomy I and Embryology	8	24	16 weeks
	BSCBH112	Cell Biology and Histology I	6	18	16 weeks
	BSPHY113	Physiology I	6	18	16 weeks
	BSBIO114	Biochemistry I	4	12	16 weeks
	BSGMB115	Genetics and Molecular Biology I	2	6	16 weeks
	BSEBM116	Evidence based Medicine	2	6	16 weeks
	BSICM117	Introduction to Clinical Medicine I	2	6	16 weeks
	Total		30	90	16 weeks

Gross Anatomy I and Embryology (BSANA111) (8 credits)

This course provides an in-depth study of human anatomy, emphasizing the macroscopic structure, microscopic tissue organization, and embryonic development of the human body. The course integrates gross anatomy, histology, and embryology to provide a comprehensive understanding of the structural basis of human form and function.

Gross Anatomy - 1

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, radiographic materials as well as supervised laboratory sessions dissecting various parts of the human body. This gross anatomy course will take you on a fascinating journey through the anatomical landscape, from the macroscopic level down to the cellular intricacies. Gain a profound understanding of the organization and relationships between organs, tissues, and systems that collectively form the human organism. Throughout this course, you will work with plastinated cadavers, examine anatomical models, and engage in hands-on learning experiences to grasp the complexity of the musculoskeletal, nervous,

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cardiovascular, and other vital systems. Each session will unravel the mysteries of human anatomy, emphasizing clinical correlations and the practical application of anatomical knowledge.

As you go into the depths of the human anatomy, you will not only acquire a solid foundation for medical and healthcare knowledge but also cultivate a deep appreciation for the beauty and functionality of the human body. The study of gross anatomy becomes a gateway to understanding the intricacies of life and serves as a cornerstone for medical education and research. This school provides the Anatomage Table which is the most technologically advanced virtual dissection table for anatomy education. The Table includes ultra-high quality (UHQ) visualization for students to view photorealistic anatomical structures. Research has proven that working with the Table improves student retention of knowledge and improved test scores.

Throughout the course, students engage with a variety of learning materials, including lectures, labs using advanced technologies like HoloLens and Anatomage systems, 3D4Medical Inc Complete Anatomy, slides, and videos. The course is designed to provide students with a comprehensive understanding of human anatomy and embryology, preparing them for further studies in medicine and related fields. By the end of the course, students will have gained a deep appreciation for the complexity and beauty of the human body, as well as the fundamental processes underlying human development and anatomy.

Human Gross Anatomy I course in semester I provides a comprehensive overview of the structure of the human body, starting with an introduction to the significance of human anatomy and its historical development. Students learn basic anatomical concepts and terminology, including anatomical planes, directions, and body regions, as well as the organization of major body cavities. The course also covers osteology, bone classification, and the functions of the skeletal system, focusing on the axial and appendicular skeletons.

In the Upper Limb Anatomy section, students explore the anatomy of the shoulder and axilla, arm, forearm, and hand, including bones, joints, muscles, and neurovascular structures. The Lower Limb Anatomy section delves into the pelvis and thigh, leg, and foot anatomy, covering bones, muscles, and neurovascular structures.

Additionally, the course includes an in-depth study of embryology, tracing the process of human development from gametogenesis and fertilization to organogenesis. Students learn about early embryonic development, germ layer formation, neurulation, limb development, and the development of various organ systems. The course also covers the formation of fetal membranes, amniotic fluid, and fetal circulation, providing insights into the clinical relevance of embryology.

Cell Biology and Histology I (BSCBH112) (6 credits)

This course examines the microanatomy of cells, tissues and organs. Lectures illustrate the microstructure of major tissues and organs in relation to their function. Laboratory exercises use the light microscope to study these components and make use of slides and electron micro-graphs for review and discussion.

This lab-oriented course presents the molecular biology and histology of normal cells, tissues and organ systems at various developmental functional stages. Students will learn the unique characteristics of the four basic tissues of the body: epithelial tissue, connective tissue (including bone, cartilage and blood), muscle tissue and nervous tissue. Students will learn how individual cell functions interact with one another and how such interactions are accomplished from the tissue levels to the organ levels.

This school has infrastructure for accessing an innumerable number of slides in histology and cytology. Students are provided with software applications to read and identify the tissues and cells.

This block will form the foundation for the preclinical medical sciences as well as for all the systems that will follow. This block will lay the groundwork for preclinical medical sciences, in general, and for all of the systems that will



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follow. It will explore the structure and function of organelles continuing into tissues showing the continuum from the relevant basics of molecules to the system level and include considerations for evidence-based decision making. The course material will be presented via a combination of **interactive live lectures and active small-group discussions (with ppt presentations/slides) guided by facilitators.**

The course introduces molecular and control systems and prepares the student for future understanding of normal (homeostasis) systems and pathological conditions. In addition, the student learns how molecular building blocks are utilized for growth and differentiation, wound healing and tissue repair, defense mechanisms and transfer of hereditary characters. **The students can use the LMS platform known as Lecturio.**

Physiology I (BSPHY113) 6 credits

Physiology is the study of the normal functioning of a whole organism made up of cells and organ systems. In medical science, this branch of biology is narrowed down to the study of the normal functioning of humans. Thus, physiology is the branch of medicine that focuses on the main biochemical and physical principles involved in the appropriate functioning of humans. The most important of these functions is the concept of homeostasis, which describes the auto-regulatory properties of a living being.

In this first semester, students will get a basic idea about how the internal environment of our body is relatively maintained at a constant level with respect to its body fluid composition, pH and pressure in varying conditions. The students should ably describe the composition and volume of whole blood, and plasma proteins and discuss their importance in the body, the cell types making up the formed elements and describe the major functions, various disorders related to blood cell counts and possible causes for the same and also blood groups, blood transfusions and transfusion reaction.

To explain immunity and its classification, the Role of T cells and B cells in immunity.

Know the physiological anatomy of muscles and types of muscles, their process of contraction and various contractile properties, and various benefits of muscular exercise. This course will be presented using lectures, slides, and videos. This course also provides the student with an understanding of the principles and concepts of homeostasis, haematology and nerve-muscle physiology. The students can use the LMS platform known as **Lecturio**.

Biochemistry I (BSBIO114) 4 credits

In this course the student will understand the concept that disease is a molecular entity, the student knows details of macromolecules and microelectronics and their importance in the maintenance of the human metabolism. The biochemical pathways of living organisms are studied to include the structure of biomolecules and their structural and functional roles. In this semester the students study the chemistry and metabolic reactions of constituents of living matter, including carbohydrates, lipids, proteins, nucleic acids, vitamins, and minerals. The chemistry and regulation of the reactions and processes of whole organisms; endocrinology; enzymology; nutrition. Understand the concept of Bioenergetics, Biological oxidation and the production of energy through Oxidative phosphorylation.



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Biochemistry and medicine enjoy a mutually cooperative relationship. The many functions that human organs perform are oftentimes based on chemical processes. One cannot hope to master the comprehension of Physiology without a solid grasp of Biochemistry, the basis of all metabolic processes.

Genetics and Molecular Biology I (BSGMB115) 2 credits

The course will discuss the organization and major features of the human genome, including replication, gene expression, epigenetics, and the role of non-coding RNA. It will also explain the consequences of mutations and polymorphisms, inherited diseases, and molecular aspects of major common diseases, such as cancer, diabetes, vascular and coronary disease. In this semester students understand the structure and organization of Nucleic acids such as DNA and RNA and their role in genetics. Detailed discussion of DNA Replication, Transcription, Translation and their mechanisms and so on. Introduction of various types of mutations and DNA repair. Disorders of DNA repair mechanisms are also discussed in this course.

Evidence-Based Medicine (BSEBM116) 2 credits

In this course, the students learn how to start research and how to do different types of study designs. The students learn how to use the PICO method to phrase a research question. EBM is the application of the critical thinking aspects of epidemiology to the process of making clinical decisions. The student will have an opportunity to develop research skills related to evidence-based medicine (EBM). Students will be introduced to concepts of research analysis and critical thinking. At the end of this course, students will be able to identify and frame a clinical question based on therapy, diagnosis, prognosis or aetiology; develop a focused search strategy to identify articles that best answer the clinical question; identify and use the appropriate medical database; and critically appraise articles for validity. **The students can use the LMS platform known as Lecturio.**

Introduction to Clinical Medicine I (BSICM117) 2 credits

In this course students (in groups) learn how to interview patients, and do physical examinations on patients. Initially, students will learn history taking working with Clinicians, following videos, and using task trainers (mannequins) to learn how to conduct examinations of various areas of the body. The students will then progress to the Simulated patient Lab (once persons are hired and trained as Standardized patients) where they learn these skills using these standardized patients. They will also have individual sessions under supervision from attending physicians where they practice patient interviewing and physical examinations. The students can use the LMS platform known as Lecturio.

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YEAR 1 - SEMESTER 2

YEAR 1 / SEMESTER 2	COURSE CODE (Basic Sciences, Subject, Year 1, Semester 2 & Subject#)	SUBJECT	CREDITS	CREDIT HOURS	DURATION
	BSPHY121	Physiology II	8	24	16 weeks
	BSBIO122	Biochemistry II	6	18	16 weeks
	BSANA123	Gross Anatomy II	6	18	16 weeks
	BSGMB124	Genetics & Molecular Biology II	4	12	16 weeks
	BSBED125	Biostatistics and Epidemiology	4	12	16 weeks
	BSCBH126	Cell Biology and Histology II	4	12	16 weeks
Total			32	96	16 Weeks

Physiology II (BSPHY121) 8 Credits

Physiology is the study of the normal functioning whole organism made up of cells and organ systems. In medical science, this branch of biology is narrowed down to the study of the normal functioning of humans. Thus, physiology is the branch of medicine that focuses on the main biochemical and physical principles involved in the appropriate functioning of humans. The most important of these functions is the concept of homeostasis, which describes the auto-regulatory properties of a living being.

In this course, the student will be introduced to the physiology of different organ systems including cardiovascular, respiratory, endocrine, reproductive, gastrointestinal and renal systems. For optimal comprehension, a basic understanding of human anatomy and histology is necessary, along with a good grasp of biochemistry and biophysics.

In this course, students will be able to: Know the physiological anatomy of the human heart and blood vessels, their role in circulation, various mechanisms involved in the circulation of blood, techniques that help to study the functioning of the heart and their application in diagnosing various disorders. Know the importance of blood pressure and its maintenance and variations of blood pressure and disorders related to it. Know the physiological anatomy of human lungs and mechanisms involved in respiration and its regulations, various pressures in the process of respiration and associated disorders, mechanism of transport of respiratory gases, their mode of transport and associated disorders, techniques used to assess the functionality of lungs like spirometry, Know the parts and functions of the digestive system and various mechanisms involved in the process of digestion and absorption of various biomolecules and disorders associated with digestion Know the parts and functions of the renal system and mechanism of urine formation and disorders associated with abnormal renal functions Know the structure and functions of the skin. Know the physiological anatomy of endocrine and reproductive organs.

D O R : 2 5 M a y 2 0 2 4

BIOPRIST INSTITUTE OF MEDICINE, HEALTH SCIENCES & RESEARCH

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Know the actions of various hormones released by the endocrine glands, their mechanism of action and the disorders associated with variations in their normal level. Know the processes taking place in the male and female reproductive system, ideas about the process of pregnancy and associated features, and various family planning techniques.

This course will be presented using lectures, slides, and videos. This course also provides the student with an understanding of the principles and concepts of cardiac, lung, gastrointestinal and kidney functions. The students can use the LMS platform known as Lecturio. On this subject rests the foundation of the more complex concepts of pathology and medicine, specifically how disease processes are initiated when physiological processes are affected.

As the medical profession progressively focuses on the molecular aspects of diseases, physicians must have a good understanding of biomolecules and cellular machinery to help understand the many changes and interventions that are being gradually discovered. This course will be presented using lectures, slides, and videos. The students can use the LMS platform known as Lecturio.

Biochemistry II (BSBIO122) 6 credits

The substances and reactions that are the subjects of the study of Biochemistry are also important players in the understanding of cellular biology, microbiology or the effects organisms can have on the human body, and the pharmacologic effects of medications.

In this semester the students will be able to understand Intermediary metabolism and biochemical mechanisms in selected disease states. The student is prepared accordingly through a discussion of the principles of biochemistry including anabolic and catabolic pathways as permitted by the generation and use of energy. Biochemical mechanisms are utilized to justify particular signs and symptoms noted in certain clinical conditions. This course gives more details on how humans are linked with non-communicable diseases like Diabetes, Hypertension, coronary heart disease and obesity. The importance of Biochemistry in diagnosis where the laboratory tests are vital to day-to-day clinical care. Students know the importance of all types of biochemical laboratory tests which are vital in diagnosis and prognosis. The theory and application of classical and emerging technologies in biochemical lab analysis will be covered. (Lecture/Lab). This course will be presented using lectures, slides, and videos. The students can use the LMS platform known as Lecturio.

Gross Anatomy II (BSANA123) 6 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, radiographic materials as well as supervised laboratory sessions dissecting various parts of the human body. This gross anatomy course will take you on a fascinating journey through the anatomical landscape, from the macroscopic level down to the cellular intricacies. Gain a profound understanding of the organization and relationships between organs, tissues, and systems that collectively form the human organism. Throughout this course, you will work with plastinated cadavers, examine anatomical models, and engage in hands-on learning experiences to grasp the complexity of the musculoskeletal, nervous, cardiovascular, and other vital systems. Each session will unravel the mysteries of human anatomy, emphasizing clinical correlations and the practical application of anatomical knowledge.

As you go into the depths of human anatomy, you will not only acquire a solid foundation for medical and healthcare knowledge but also cultivate a deep appreciation for the beauty and functionality of the human body. The study of gross anatomy becomes a gateway to understanding the intricacies of life and serves as a

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cornerstone for medical education and research. This school provides the Anatomage Table which is the most technologically advanced virtual dissection table for anatomy education. The Table includes ultra-high quality (UHQ) visualization for students to view photorealistic anatomical structures. Research has proven that working with the Table improves student retention of knowledge and improved test scores.

The Human Gross Anatomy II course in semester II provides a comprehensive study of trunk anatomy, the thorax, abdomen, and pelvis which are meticulously explored to provide a thorough understanding of the structures. Beginning with the thorax, attention is given to the thoracic cage, consisting of ribs, sternum, and costal cartilage, highlighting their anatomical landmarks. Additionally, the muscles of the thoracic wall, such as the intercostal muscles and the diaphragm, are discussed in detail, emphasizing their roles in respiration. Furthermore, the thoracic organs, including the heart, lungs, and great vessels, are examined, elucidating their intricate relationships and clinical considerations, thereby laying a solid foundation for understanding cardiorespiratory pathology.

Transitioning to the abdomen, the focus shifts to the abdominal wall and its musculature, encompassing the rectus abdominis, external and internal obliques, and transversus abdominis, with emphasis on their functions in providing support and stability to the abdominal contents. Discussions also delve into the inguinal region, elucidating the anatomy of the inguinal ligament, inguinal canal, and hernias, and their clinical correlations, essential for diagnosing and managing abdominal wall pathologies. Moreover, attention is directed towards the upper abdomen, where the anatomy, relationships, and clinical considerations of organs like the liver, stomach, and spleen are thoroughly explored, facilitating an understanding of gastrointestinal anatomy and pathology.

Moving further down to the pelvic cavity, the focus extends to the anatomy of abdominal organs such as the small and large intestines, kidneys, and the urinary bladder. Simultaneously, detailed discussions on the pelvic bones, pelvic floor muscles, and reproductive organs provide insights into pelvic anatomy and its clinical implications in conditions like pelvic organ prolapse and pelvic floor dysfunction. Additionally, neurovascular structures, including the abdominal aorta, and inferior vena cava are elucidated, highlighting their distribution and clinical relevance.

In the posterior thorax, superficial and deep back muscles are explored in detail, including the trapezius, latissimus dorsi, and rhomboids, along with discussions on their innervation and clinical correlations such as scapular winging and shoulder movement disorders. Further insights into the anatomy of the spinal column, including regional variations and clinical considerations, are provided, along with discussions on vascular structures and clinical considerations related to the blood supply, back pain, spinal deformities, and nerve compression syndromes, thereby ensuring a comprehensive understanding of trunk anatomy from both anterior and posterior perspectives.

Genetics & Molecular Biology II (BSGMB124) 4 credits

The course will discuss the organization and major features of the human genome, including replication, gene expression, epigenetics, and the role of non-coding RNA. It will also explain the consequences of mutations and polymorphisms, inherited diseases, and molecular aspects of major common diseases, such as cancer, diabetes, vascular and coronary disease. This course emphasizes gene therapy. Students learn about various genetic techniques such as blotting techniques including Southern blotting, western blotting, northern blotting, DNA microarray, Recombinant DNA technology, CRISPR techniques and PCR. Students learn about chromosomal abnormalities like Down's syndrome etc., This course mainly teaches genetic disorders including single gene disorders (mendelian disorders e.g., autosomal and sex-linked disorders), and multifactorial disorders like Diabetes and Hypertension. This course covers population genetics and introduces recent and ongoing discoveries so that

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their future applications may be understood and make students familiar with the Hardy-Weinberg equation to calculate the genetic risk among populations. In this semester students will have a proper understanding of Multifactorial inheritance, cancer Genetics and genetics of certain congenital abnormalities. This course will be presented using lectures, slides, and videos.

This course also provides the student with an understanding of the principles and concepts upon which current clinical genetic practice (diagnosis, treatment and counselling) is based. The students can use the LMS platform known as Lecturio.

Biostatistics and Epidemiology (BSBED125) 4 credits

This course is designed to introduce students to basic concepts of epidemiology and biostatistics. They will learn to identify health-related problems or phenomena in communities and describe their epidemiological distribution and possible determinants, basic measures of morbidity and mortality and learn to calculate them.

Students will learn and apply appropriate statistical methods in health data analysis; and organize and present analyzed data in logical and meaningful ways. The importance of basic concepts and principles of public health surveillance systems, including screening programs, in monitoring the health status of a population will be reviewed.

The course will describe and discuss the concept of disease outbreak and its detection, investigation and control and explain how epidemiological studies contribute towards the overall health and well-being of population groups and communities. Taught via lectures, worksheets, and Class assignments.

Students will also be introduced to the study of community and public health, primary health care, epidemiology and treatment of diseases (non-communicable and communicable) on a global basis. They will study the social determinants of health, health equity, social justice, and governmental policy and their impact on the distribution of health services and health outcomes in low-resource settings within and internationally. Students will be taught via lectures including Guest lectures from Public Health Specialists working in the field, assigned readings, videos, and trips to Health Care and other Public Health facilities. The students can use the LMS platform known as Lecturio.

Cell Biology and Histology II (BSCBH126) 4 credits

The histology course in semester II provides a comprehensive study of tissues at a microscopic level. It is fundamental to understanding the structure and function of organs and systems within the human body. It encompasses various techniques for sample collection, fixation, embedding, and staining, facilitating examination under a light microscope. Cell types and tissues are categorized and studied into epithelial, connective, muscle, nervous, blood, and lymphoid tissues. Epithelial tissues, including simple and stratified epithelium, have several functions such as absorption, secretion, and protection, while glands, both endocrine and exocrine, play crucial roles in hormone secretion and external secretion. Connective tissues, ranging from loose to dense and adipose, provide structural support and insulation, with cartilage and bone tissues contributing to skeletal structure and resilience are also studied in this course.

Moreover, muscle tissues, comprising skeletal, cardiac, and smooth muscle types, exhibit distinct structural and functional properties essential for movement, cardiac contraction, and organ function regulation. Nervous tissue, composed of neurons and neuroglia, forms the intricate network of the central and peripheral nervous systems, facilitating communication and coordination within the body. Blood and lymphoid tissues, including erythrocytes, leukocytes, and lymph nodes, contribute to immune function and oxygen transport. Endocrine glands, such as the pituitary and thyroid, produce hormones that regulate various physiological processes. The integumentary



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system, comprised of skin layers and accessory structures like hair follicles and glands, serves protective, thermoregulatory, and sensory functions. Histological examination of the cardiovascular, respiratory, digestive, urinary, and reproductive systems reveals the intricate architecture of blood vessels, alveoli, gastrointestinal tract, nephrons, and reproductive organs, providing insights into their structure-function relationships and pathological conditions.

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YEAR 1 - SEMESTER 3

YEAR 1 / SEMESTER 3	COURSE CODE (Basic Sciences, Subject, Year 1, Semester 3 & Subject#)	SUBJECT	CREDITS	CREDIT HOURS	DURATION
	BSBHS131	Behavioral Sciences	13	39	16 weeks
	BSMBI132	Microbiology and Immunology	12	36	16 weeks
	BSNSC133	Neurosciences	9	27	16 weeks
	BSICM134	Introduction to Clinical Medicine II	2	6	16 weeks
	BSMES135	Medical Spanish	1	3	16 weeks
	Total		37	111	16 weeks

INTRODUCTION TO MEDICAL SPANISH COURSE WILL COMMENCE DURING THIS MODULE.

Behavioral Sciences (BSBHS131) 13 Credits

Students are introduced to learn about various behavioural disorders like psychotic disorders, anxiety disorders, mood disorders, somatic symptoms and related disorders, factitious disorders and eating disorders. Abnormalities in human functioning are examined and students are introduced to psychiatric evaluation, nomenclature and clinical writing, and how to conduct a mental status evaluation. These range from childhood disorders to geriatric dementia. Epidemiology and pathogenesis, differential diagnosis, course and prognosis, along with current treatment strategies are presented. Additionally, students participate in case-based discussions of ethical dilemmas facing today's healthcare providers. Ethical analysis of moral reasoning is emphasized. Students are challenged to reflect on their personal values and moral obligations as physicians. The students can use the LMS platform known as Lecturio.

Microbiology and Immunology (BSMBI132) 12 credits

In this course, the student will be taught about the major groups and families of microorganisms relevant to human health, including bacteria, viruses, fungi, parasites, and prions. For optimal comprehension, the student is required to have a basic understanding of eukaryotic and prokaryotic cells and the differences between them, as well as the fundamental concepts of gene expression.

This course considers the characteristics and properties of microorganisms, their role in the disease processes and selected aspects of diagnosis and treatment of infectious disease. Other topics include the basic principles of bacteriology, mycology, parasitology, virology, immunology and microbial genetics, including cultural characteristics and pathogenic properties of medically important species of bacteria, fungi and viruses. 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 aetiology, pathogenesis and genetics of bacterial infection are key foundations to the study of microbes. Students will learn the symptoms that help in the diagnosis of a patient and how these symptoms relate to disease. Prevention of diseases such as vaccines, hand washing sterilization and

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disinfection are stressed as well as the treatment of infectious diseases. In the laboratory, students perform the techniques needed to identify and inform treatment strategies for a variety of gram-positive as well as gram-negative bacteria. Case studies are used in laboratory sessions to enhance the learning experience and provide a well-rounded educational experience.

This course covers the basic immunologic concepts of the cells and humoral products of the immune system. The student needs to be familiar with all lymphoid organs and tissues, the types of immune cells from both the erythroid and lymphoid lines and the biochemistry of immune globulins (Ig) and complement proteins.

The pathophysiology of immune disorders can be challenging to master. The key to maximizing comprehension of such complex orders lies in getting a good grasp of the basics of how the immune system works. The student would know about Humoral immunity, cell-mediated immunity and their defence mechanism in the body. Immunoglobulins, application of monoclonal antibodies in the treatment of several diseases. Lectures include the molecular biology and genetics of antigen recognition and immunoglobulin production plus the characteristics and detection of antigen-antibody reactions. The approach is to correlate these basic concepts with clinical manifestations of the disease, the immunopathologic mechanisms of hypersensitivity, autoimmunity, transplantation, tumour immunology, haematology, reproduction, infectious diseases and immunodeficiency. (Lecture/Lab). The students can use the LMS platform known as Lecturio.

Neurosciences (BSNSC133) 9 credits

This course will cover the structure and function of the Central and Peripheral nervous systems including the Autonomic Nervous System. This course will include an interdisciplinary investigation of the physiology and the gross and microscopic structure of the brain, spinal cord and nervous system of humans. Aspects of brain energy metabolism, neurotransmitter synthesis and degradation, and psychopharmacology are presented.

Neuroscience 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 a 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. This course integrates anatomical and physiological material to assist the student in understanding common neurological disease processes. Laboratory exercises will provide slides and dissection of the human brain, spinal cord, and relevant structures. The student will be introduced to modern methods of neuroimaging, including CT scans and MRI. (Lecture/Lab)

This course also tells about various special senses like physiology and anatomy of eye, ear, taste and skin. The students can use the LMS platform known as Lecturio.



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Introduction to Clinical Medicine II (BSICM134) 2 credits

Students will be introduced to physical examination skills in a systems-based format. Formal teaching of skills will be followed by the opportunity to practice and improve these skills in the Clinical Skills Center. Students will be evaluated using the objective structures clinical examination (OSCE) format.

Physical examinations constitute a head-to-toe assessment of a patient's body including the checking of vital signs(PR, RR, BP etc.), the inspection, palpation, percussion, and auscultation of every major body part, and go hand-in-hand with the medical history and sometimes basic laboratory tests.

The physical examination is one of the main cornerstones of the diagnostic field. A thorough and differential diagnosis-directed history and physical examination guide physicians to an appropriate patient workup. The probability of diagnostic errors, oversights, and unnecessary tests is decreased due to proper physical examination skills.

This exam understandably relies on the previous comprehension of anatomy and physiology. A well-performed physical exam provides the advantages of an enhanced physician-patient relationship. The students can use the LMS platform known as Lecturio.

Medical Spanish (BSMES135) 1 credits

This course will provide the basic communication skills for the medical practice. Its focus will be the usual verbal exchanges that happen in the patient-doctor relationship. Emphasis will be placed on the most common mistakes that have the potential to impair compliance with treatment and the overall trust in the relationship while keeping the broad aim of the course in improving the understanding of basic Spanish in the medical setting.

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YEAR 2 - SEMESTER 4

YEAR 2 / SEMESTER 4	COURSE CODE (Basic Sciences, Subject, Year 2, Semester 4 & Subject#)	SUBJECT	CREDITS	CREDIT HOURS	DURATION
	BSPHA241	Pharmacology	12	36	16 weeks
	BSPTH242	Pathology 1	12	36	16 weeks
	BSICM243	Introduction to clinical medicine III	6	18	16 weeks
	Total		30	90	16 weeks

Pharmacology (BSPHA241) 12 credits

This course builds upon the student's understanding of pharmacology, providing practical experience of medical therapeutics in a case-based format. The fundamentals of pharmacokinetics and pharmaceutical preparations including drug actions and interactions are presented as well as adverse effects and pharmacological actions. The student must be able to understand the mechanism of action of common classes of medications and be able to evaluate basic pharmacological data. This course also includes all major classes of therapeutic medications used in clinical practice in the treatment of disease processes. The clinical component will provide students with the necessary background to practice rational drug therapy as it applies to clinical practice. (Lecture). The students can use the LMS platform known as Lecturio.

Pathology I (BSPTH242) 12 credits

This first section of a two-semester comprehensive curriculum is an introduction to the responses of cells, tissues and organs to major disease processes. Lectures and laboratory demonstrations will introduce students to definitions, aetiology, gross and microscopic lesions, and pathogenesis. Pathology 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 concerning their 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; systemic, environmental and nutritional disease. Lecture discussions are supplemented by a study of gross and microscopic specimens. Emphasis is placed on basic concepts and principles of disease processes. (Lecture/Lab). The students can use the LMS platform known as Lecturio.



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Introduction to clinical Medicine III (BSICM243) 6 credits

Students will begin to integrate the clinical skills that were introduced in the earlier courses in this series. Students will revisit history-taking and physical examination and will have the opportunity to practice their communication skills with patients, colleagues and attending physicians. As with previous courses, objective structures clinical examination (OSCE) standards will be used to evaluate students. (Lecture/Lab).The students can use the LMS platform known as Lecturio.

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YEAR 2 - SEMESTER 5

YEAR 2 / SEMESTER 5	COURSE CODE (Basic Sciences, Subject, Year 2, Semester 4 & Subject#)	SUBJECT	CREDITS	CREDIT HOURS	DURATION
	BSPH251	Pathology 2	10	30	16 weeks
	BSCME252	Basic Principles of Clinical Medicine	4	12	16 weeks
	BSCPH253	Clinical Pharmacology	2	6	16 weeks
	BSISR254	Integrated Systems Review	11	33	2 weeks
	Total		27	81	16 weeks

INTRODUCTION TO MEDICAL SPANISH COURSE WILL BE COMPLETED.

Pathology 2 (BSPH251) 10 credits

This second part of the Pathology curriculum focuses primarily on systemic pathology and disease processes. In this course, emphasis is placed on relating pathophysiological and biochemical abnormalities of disease processes to clinical signs and symptoms of disease. Pulmonary, cardiac, gastrointestinal, endocrine, rheumatic, orthopaedic, renal, neurological and haematology organ systems are covered. Knowledge and understanding of the aetiology and pathogenesis of diseases is gained through the intense examination of clinical cases, gross material, selected microscopic slides, clinical laboratory data and X-rays. (Lecture/Lab). The students can use the LMS platform known as Lectorio.

Basic Principles of Clinical Medicine (BSCME252) 4 credits

This course module helps the student to prepare for hospital clerkships. Students will gain practical knowledge and experience in the diagnosis and treatment of patients. Following an integrated case-based curriculum, students will take histories and perform physical examinations on trained standardized patients. They will work individually and in teams to discuss differential diagnoses and investigation strategies and will use the information gained to formulate management and disposition plans. Throughout this course, there is an emphasis on the need to listen and communicate effectively with colleagues, team members and, most importantly, the patients. The students will have an opportunity to spend time with the practising physicians in a hospital/clinical setting. Students will be evaluated both formatively and by objective structured clinical examination (OSCE) standards. Practical knowledge, skills and abilities will be tested in an objective manner. The students can use the BIMS - LMS platform, Lectorio.

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Clinical Pharmacology (BSCPH253) 2 credits

This course builds upon the student's understanding of pharmacology, providing practical experience of medical therapeutics in a case-based format. The students, working individually and in teams, have the opportunity to participate in therapeutic decision-making in clinical cases, receive feedback regarding their decisions and benefit from discussions led by clinicians involved in the practical application of medical interventions in common disease states. This course is integrated with the other co-requisite courses to allow students to attain a conceptual understanding of common medical conditions and provide them with the necessary skills and perspective for their transition to the clinical wards. The students can use the LMS platform known as Lecturio.

Integrated Systems Review/USMLE Prep (BSISR254) 11 credits

This course is designed to engage students to integrate all of the knowledge acquired in the Preclinical Sciences courses completed during years 1 & 2 and help in the application of this knowledge to clinical scenarios in preparation for the Comprehensive Basic Science Examination and the USMLE STEP 1.

The course will take the form of interactive review lectures by experts from multiple disciplines with the inclusion of integrated clinical cases and problems, to remind the students of relevant concepts (of Anatomy, Behavioral Science/Epidemiology/ Biostatistics, Biochemistry and Genetics, Microbiology/Immunology, Physiology, Pathology, Pharmacology) and fostering their integration skills. The students can use the LMS platform known as Lecturio.

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